



Case No.: 14-0160-EL-EEC

Mercantile Customer: Involta LLC

Electric Utility: Ohio Edison Company

Program Title or
Description: Lighting and VFD Projects

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: Involta LLC

Principal address: 191 East Miller Avenue, Akron Ohio, 44301

Address of facility for which this energy efficiency program applies: 191 East Miller Avenue, Akron Ohio, 44301

Name and telephone number for responses to questions: Jeff Thorsteinson, 319.551.5168

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

- ☒ The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please attach documentation.)
- ☐ 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):

- ☐ 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):

- ☒ Energy savings from the customer's 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 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):

- ☒ 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**
- ☐ 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 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) - (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 805,513 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) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____ 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) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____ kWh

Please describe the less efficient new 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):

- ☐ 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):
 - ☐ 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?

7/31/2012

C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

0 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:

☒ Option 1: A cash rebate reasonable arrangement.

OR

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

OR

☐ 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):

☒ A cash rebate of \$33,660. (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.

☐ 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 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):

- ☐ 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: **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 _____.

Our program costs were _____.

The 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 **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.



Public Utilities Commission

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

Case No.: 14-0160-EL-EEC

State of Ohio :

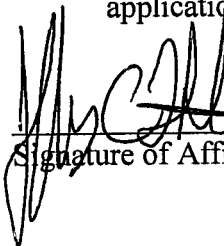
Jeff Thorsteinson, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Involta LLC

[insert customer or EDU company name and any applicable name(s) doing business as]

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.

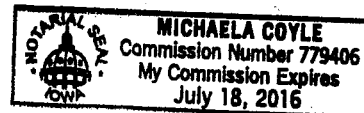
 Chief Security Officer
Signature of Affiant & Title

Sworn and subscribed before me this 14th day of March, 2014 Month/Year

Michaela Coyle
Signature of official administering oath

Michaela Coyle, Corp. office manager
Print Name and Title

My commission expires on July 18, 2016



Customer Legal Entity Name: Involta LLC

Site Address: Involta LLC

Principal Address: 191 East Miller Avenue

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	What date would you have replaced your equipment if you had not replaced it early? 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	AHU VFD Installation	Installation of VFDs on new HVAC units. AHU 2a and 2b are 7.5 HP and one is redundant. Savings based on one unit running. AHU 1 and 5 are 3 HP. AHU 3a and 3b are 3 HP and one is redundant. Savings based on one unit running. AHU 4a and 4b are 3 HP and one is redundant. Savings based on one unit running.	Motor System calculation was performed with ECM consumption calculated and demand utilized. Specified equipment selection of the motors and motor controls. Electrical Usage (kWh) Usage= Motor KW x Motor Speed ^2* %HP FC IGV* Operating hours. New Electrical Usage (kWh) Usage= Motor KW x Motor Speed ^2* %HP VFD* Operating hours. Electrical Energy Cost = (kWh x \$/kwh) ; Base KWh - Retrofit KWh = Savings. See attached summary spreadsheet for details. Measurement and Verification is based on IPMVP Option A. Calculations based on engineering study including physical assessment of operational factors and commonly accepted usage assumptions. New motors to vary based on required static pressure to maintain temperature and humidity in space. The % HP for IGV and VFD are taken from eQuest.	N/A	Ahus without VFD motor control
2	RTU VFD Installation	Installation of VFDs on new RTU units. Both RTUs are 30 HP and one is redundant. Savings based on one unit running.	Motor System calculation was performed with ECM consumption calculated and demand utilized. Specified equipment selection of the motors and motor controls. Electrical Usage (kWh) Usage= Motor KW x Motor Speed ^2* %HP FC IGV* Operating hours. New Electrical Usage (kWh) Usage= Motor KW x Motor Speed ^2* %HP VFD* Operating hours. Electrical Energy Cost = (kWh x \$/kwh) ; Base KWh - Retrofit KWh = Savings. See attached summary spreadsheet for details. Measurement and Verification is based on IPMVP Option A. Calculations based on engineering study including physical assessment of operational factors and commonly accepted usage assumptions. New motors to vary based on required static pressure to maintain temperature and humidity in space. The % HP for IGV and VFD are taken from eQuest.	N/A	RTUs without VFD
3	CRAC VFD	Installation of VFDs on new Computer Room Air Conditioning units. 5 CRAC units have 7.5 HP fan motor and one is redundant. Savings based on four units running.	Motor System calculation was performed with ECM consumption calculated and demand utilized. Specified equipment selection of the motors and motor controls. Electrical Usage (kWh) Usage= Motor KW x Motor Speed ^2* %HP FC IGV* Operating hours. New Electrical Usage (kWh) Usage= Motor KW x Motor Speed ^2* %HP VFD* Operating hours. Electrical Energy Cost = (kWh x \$/kwh) ; Base KWh - Retrofit KWh = Savings. See attached summary spreadsheet for details. Measurement and Verification is based on IPMVP Option A. Calculations based on engineering study including physical assessment of operational factors and commonly accepted usage assumptions. New motors to vary based on required static pressure to maintain temperature and humidity in space. The % HP for IGV and VFD are taken from eQuest.	N/A	CRAC units without VFD control
4	Chilled Water Pump VFD	Install 2 new CW pumps with 60 HP motors and VFD control. Pumps run lead/lag with only one pump running at a time.	Pump Motor System calculation was performed with ECM consumption calculated and demand utilized. Specified equipment selection of the motors and motor controls. Electrical Usage (kWh) = Motor KWx Operating hours. New kWh Usage= Motor KW x Motor Speed ^3x Operating hours. Electrical Energy Cost = (kWh x \$/kwh) ; Base KWh - Retrofit KWh = Savings. See attached summary spreadsheet for details. Measurement and Verification is based on IPMVP Option A. Calculations based on engineering study including physical assessment of operational factors and commonly accepted usage assumptions. New motors to vary based on required differential pressure to maintain temperature in space.	N/A	Constant volume CW pumping system
5	Lighting and Lighting Controls	Installed new lighting in facility. The lighting systems are primarily high efficiency T8 with electronic ballasts. 86 occupancy sensors are installed throughout the building controlling the majority of the lighting load.	Lighting inventory was performed with 1.0 watt per sq ft as the baseline. The new usage was calculated based on the installed fixtures in the 26345 square foot of new building. Electrical Usage (kWh) = (Number of fixtures x watts per fixture x Operating hours). Electrical Demand (kWd) = (Number of fixtures x watts per fixture) ; Electrical Energy Cost = (kWh x \$/kwh) ; Existing KWh - Retrofit KWh = Savings. See Involta_Akron_Lighting Rebate Calculator for details. Measurement and Verification is based on IPMVP Option A. Calculations based for occupancy controls based on reduction of usage by 30%.	N/A	Standard T8 lighting and limited controls.

6	Air Cooled Chiller with Economizer	<p>The Data Center requires cooling year round. Two 244 ton chillers installed- one chiller is redundant. The air cooled chiller system was specified with a intergral economizer to utilize free cooling in portions of the year with lower outside air temperatures. The chilled water load is reduced based on the bin hours in each temperature range. The chiller load is reduced with the use of the economizer. The base chiller load is 244 tons. The peak kw per ton of the chiller is 1.25 KW per ton. The chiller efficiency at below 60 degrees is .78 KW/ton.</p>	<p>Chiller System calculation was performed based on ASHRAE 90.1 standards and hourly bin data. The chiller kwh consumption was calculated for each bin based on the KW/Ton x bin hours x tons of load. The base chiller efficiency of .78 KW/ton was used for all bin hours below 60 degrees. The economizer operation begins at 50 degrees and the load of the economizer is increased for each lower temperature bin. At 20 degrees and below the chiller cooling is off and the economizer is performing all the cooling for the facility. See attached summary spreadsheet for details. Measurement and Verification is based on IPMVP Option A. Calculations based on engineering study including physical assessment of operational factors and commonly accepted usage assumptions.</p>	N/A	Chiller without integral economizer to provide free cooling.

Docket No. 14-0160
Site: 191 East Miller Avenue

Exhibit 2

Customer Legal Entity Name: Involta LLC

Site Address: Involta LLC

Principal Address: 191 East Miller Avenue

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2012	495,677	495,677	887,496
2011	642,918	642,918	642,918
Average	569,298	569,298	765,207

Project Number	Project Name	In-Service Date	Project Cost \$	50% 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) \$	Eligible Rebate Amount (H) \$ <i>Note 2</i>
1	AHU VFD Installation	07/31/2012	\$231,239	\$115,620	8,134	8,134	-	\$651	\$488
2	RTU VFD Installation	07/31/2012	\$231,239	\$115,620	12,514	12,514	-	\$1,001	\$751
3	CRAC VFD	05/24/2012	\$116,461	\$58,231	12,514	12,514	-	\$1,001	\$751
4	Chilled Water Pump VFD	05/21/2012	\$5,655	\$2,828	261,082	261,082	-	\$20,887	\$2,828
5	Lighting and Lighting Controls	08/01/2012	\$101,563	\$50,782	31,000	31,000	-	\$35	\$26
6	Air Cooled Chiller with Economizer	07/31/2012	\$259,448	\$129,724	480,269	480,269	-	\$38,422	\$28,817
Total					805,513	805,513	0	\$61,997	\$33,660

Docket No. 14-0160

Site: 191 East Miller Avenue

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.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC 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.

Commitment
Payment
\$

\$0

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost \$/MWh (B)	Utility Avoided Cost \$ (C)	Utility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	Total Utility Cost \$ (G)	UCT (H)
1	8	\$ 308	\$ 2,508	\$ 675	\$488	\$81	\$ 1,245	2.0
2	13	\$ 308	\$ 3,858	\$ 675	\$751	\$125	\$ 1,551	2.49
3	13	\$ 308	\$ 3,858	\$ 675	\$751	\$125	\$ 1,551	2.49
4	261	\$ 308	\$ 80,486	\$ 675	\$2,828	\$2,611	\$ 6,113	13.17
5	31	\$ 308	\$ 9,557	\$ 675	\$26	\$310	\$ 1,011	9.45
6	480	\$ 308	\$ 148,057	\$ 675	\$28,817	\$4,803	\$ 34,294	4.32
Total	806	\$ 308	248,324	4,050	\$33,660	\$8,055	45,765	5.4

Notes

(A) From Exhibit 2, = 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) = (A) * (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.

(G) = (D) + (E) + (F)

(H) = (C) / (G)

Involta LLC ~ Involta LLC
Docket No. 14-0160

Site: 191 East Miller Avenue

Instructions: Please use one line for each fixture type in a room or area.

For existing or proposed control, choose OCC for Occupancy Sensor, DAY for photosensor, HI-Lo for hi-lo level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify for incentives.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

Applicant Name:	Inville
Facility Name:	Alcon Data Center
Date:	1/31/2019
Lighting Zone Indicator only:	Lighting Zone 2

Version 1.0

Lighting Form

[illegible]

Note: If your total change in connected load is greater than or equal to 50 kW the cell above will be red. Please see row 4 on the instructions tab for information on adjusting the predominant space type to "Other" and estimating CF and EPLH values.

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	31,000
Total Change in Connected Load	0.33

Annual Estimated Cost Savings	\$3,100.00
Annual Operating Hours	3,587

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$34.95
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$34.95
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Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	466
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	0.44
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Ohio Edison • The Illuminating Company • Toledo Edison

Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Involta
Site Name:	Akron Data Center
Completed by (Name):	COSE
Date completed:	1/31/2014

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Project 1 -AHU VFD Installation	8,134	650.72
Project 2- RTU VFD Installation	12,514	1001.12
Project3- CRAC VFD	12,514	1001.12
Project 4- Chilled Water Pump VFD	261,082	20886.56
Project 6-Air Cooled Chiller with Economizer	480,269	38421.52
Total Project Energy Savings kWh	774,513	
Total Custom Prescriptive Rebate Amount \$		\$ 61,961.04

Notes about this rebate calculation:

Involta VFD Calculation

AHU 2A and 2b		Base Projected FC with IGV						
RUN TIME	HOURS	% Flow	Total HP	%HP	Motor Eff	base KW	KWH	
20%	1,752	50%	7.5	0.29	93%	1.7	3,051	
20%	1,752	60%	7.5	0.37	93%	2.2	3,891	
25%	2,190	70%	7.5	0.48	93%	2.9	6,308	
20%	1,752	80%	7.5	0.62	93%	3.7	6,517	
10%	876	90%	7.5	0.79	93%	4.7	4,152	
5%	438	100%	7.5	0.99	93%	5.9	2,601	
TOTAL	100%	8,760					26,521	
AHU 2A and 2b		with VFD						
RUN TIME	HOURS	%Flow	Total HP	%HP	Motor Eff	base KW	KWH	
20%	1,752	50%	7.5	0.20	93%	1.2	2,061	
20%	1,752	60%	7.5	0.29	93%	1.7	3,055	
25%	2,190	70%	7.5	0.42	93%	2.5	5,497	
20%	1,752	80%	7.5	0.58	93%	3.5	6,088	
10%	876	90%	7.5	0.77	93%	4.6	4,064	
5%	438	100%	7.5	1.00	93%	6.0	2,629	
TOTAL	100%	8,760					23,393	
							3128.51 KWH SAVED	

AHU 1 and AHU 5 Base Projected FC with IGV								
RUN TIME	HOURS	% Flow	Total HP	%HP	Motor Eff	base KW	KWH	
20%	1,752	50%	6.0	0.29	93%	1.4	2,441	
20%	1,752	60%	6.0	0.37	93%	1.8	3,113	
25%	2,190	70%	6.0	0.48	93%	2.3	5,047	
20%	1,752	80%	6.0	0.62	93%	3.0	5,214	
10%	876	90%	6.0	0.79	93%	3.8	3,321	
5%	438	100%	6.0	0.99	93%	4.8	2,081	
TOTAL	100%	8,760					21,217	
AHU 1 and AHU 2 with VFD								
RUN TIME	HOURS	%Flow	Total HP	%HP	Motor Eff	base KW	KWH	
20%	1,752	50%	6.0	0.20	93%	0.9	1,649	
20%	1,752	60%	6.0	0.29	93%	1.4	2,444	
25%	2,190	70%	6.0	0.42	93%	2.0	4,397	
20%	1,752	80%	6.0	0.58	93%	2.8	4,870	
10%	876	90%	6.0	0.77	93%	3.7	3,251	
5%	438	100%	6.0	1.00	93%	4.8	2,103	
TOTAL	100%	8,760					18,714	
							2502.81 KWH SAVED	

AHU 3a,3b,4a,4b Base Projected FC with IGV								
RUN TIME	HOURS	% Flow	Total HP	%HP	Motor Eff	base KW	KWH	
20%	1,752	50%	6.0	0.29	93%	1.4	2,441	
20%	1,752	60%	6.0	0.37	93%	1.8	3,113	
25%	2,190	70%	6.0	0.48	93%	2.3	5,047	
20%	1,752	80%	6.0	0.62	93%	3.0	5,214	
10%	876	90%	6.0	0.79	93%	3.8	3,321	
5%	438	100%	6.0	0.99	93%	4.8	2,081	
TOTAL	100%	8,760					21,217	
AHU 3a,3b,4a,4b with VFD								
RUN TIME	HOURS	%Flow	Total HP	%HP	Motor Eff	base KW	KWH	
20%	1,752	50%	6.0	0.20	93%	0.9	1,649	
20%	1,752	60%	6.0	0.29	93%	1.4	2,444	
25%	2,190	70%	6.0	0.42	93%	2.0	4,397	
20%	1,752	80%	6.0	0.58	93%	2.8	4,870	
10%	876	90%	6.0	0.77	93%	3.7	3,251	
5%	438	100%	6.0	1.00	93%	4.8	2,103	
TOTAL	100%	8,760					18,714	
Note- Two sets of units with one unit of each set as a redundant unit.							2502.81 KWH SAVED	

Total KWH Base
With VFDs
Savings 68954.63
60820.52
8134.12

Involta VFD Calculation

RTUs		Base Projected FC with IGV						
RUN TIME	HOURS	% Flow	Total HP	%HP	Motor Eff	base KW	KWH	
20%	1,752	50%	30.0	0.29	93%	7.0	12,204	
20%	1,752	60%	30.0	0.37	93%	8.9	15,565	
25%	2,190	70%	30.0	0.48	93%	11.5	25,233	
20%	1,752	80%	30.0	0.62	93%	14.9	26,070	
10%	876	90%	30.0	0.79	93%	19.0	16,607	
5%	438	100%	30.0	0.99	93%	23.8	10,405	
TOTAL	100%	8,760					106,084	
RTUs		with VFD						
RUN TIME	HOURS	%Flow	Total HP	%HP	Motor Eff	base KW	KWH	
20%	1,752	50%	30.0	0.20	93%	4.7	8,243	
20%	1,752	60%	30.0	0.29	93%	7.0	12,219	
25%	2,190	70%	30.0	0.42	93%	10.0	21,986	
20%	1,752	80%	30.0	0.58	93%	13.9	24,352	
10%	876	90%	30.0	0.77	93%	18.6	16,254	
5%	438	100%	30.0	1.00	93%	24.0	10,515	
TOTAL	100%	8,760					93,570	
Note- Two RTUs run with one unit running at a time							12,514 KWH Saved	

Involta VFD Calculation

CRAC Base Projected FC with IGV									
	RUN TIME	HOURS	% Flow	Total HP	MOTORS	%HP	Motor Eff	base KW	KWH
	20%	1,752	50%	7.5	4.0	0.29	93%	7.0	12,204
	20%	1,752	60%	7.5	4.0	0.37	93%	8.9	15,565
	25%	2,190	70%	7.5	4.0	0.48	93%	11.5	25,233
	20%	1,752	80%	7.5	4.0	0.62	93%	14.9	26,070
	10%	876	90%	7.5	4.0	0.79	93%	19.0	16,607
	5%	438	100%	7.5	4.0	0.99	93%	23.8	10,405
TOTAL		100%	8,760						106,084
CRAC with VFD									
	RUN TIME	HOURS	%Flow	Total HP	MOTORS	%HP	Motor Eff	base KW	KWH
	20%	1,752	50%	7.5	4.0	0.20	93%	4.7	8,243
	20%	1,752	60%	7.5	4.0	0.29	93%	7.0	12,219
	25%	2,190	70%	7.5	4.0	0.42	93%	10.0	21,986
	20%	1,752	80%	7.5	4.0	0.58	93%	13.9	24,352
	10%	876	90%	7.5	4.0	0.77	93%	18.6	16,254
	5%	438	100%	7.5	4.0	1.00	93%	24.0	10,515
TOTAL		100%	8,760						93,570
Note- Five Computer Room AC units run with one unit as a redundant unit. Four units run at a time.									12514.03 KWH SAVED

Involta VFD Calculation

Primary CW		Base Projected without VFD						
	RUN TIME	HOURS	SPEED	Total HP	MOTORS	Motor Eff	KW	KWH
	100%	8,760	100%	60	1	93%	48.1	421,610
	0%	0	100%	0	0		0.0	0
TOTAL	100%	8,760						421,610
Primary CW		Pumps with VFD						
	RUN TIME	HOURS	SPEED	Total HP	MOTORS	Motor Eff	KW	KWH
	20%	1,752	50%	60	1	93%	6.0	10,540
	20%	1,752	60%	60	1	93%	10.4	18,214
	25%	2,190	70%	60	1	93%	16.5	36,153
	20%	1,752	80%	60	1	93%	24.6	43,173
	10%	876	90%	60	1	93%	35.1	30,735
	5%	438	100%	60	1	93%	49.6	21,713
TOTAL	100%	8,760						160,528
261082.19 KWH SAVED								
Note- Pumps run lead lag with only one pump running at a time. Chilled water system runs year round to provide cooling to AHUs and RTUs.								

AKRON INVOLTA
AKRON DATA CENTER
ENERGY USAGE

Temperature BIN	BIN Hours	Economizer Tons	Chiller Capacity (Tons)	kW Saved	Total kW	kWh Saved with Economizer	Chiller kWh	
100	1		244		307.2		307.2	1.259016
95	10		246.4		289.1		2,891.0	1.173295
90	38		249.4		271.4		10,313.2	1.088212
85	287		252.1		254.5		73,041.5	1.00952
80	465		254.6		238.7		110,995.5	0.937549
75	600		256.9		224.1		134,460.0	0.872324
70	793		258.9		210.7		167,085.1	0.813828
65	1006		260.7		198.7		199,892.2	0.762179
60	782		259.3		203.7		159,293.4	0.785577
55	555		259.3		203.7		113,053.5	0.785577
50	585	58.6	185.4	45.4	144	26,559	84,240.0	0.776699
45	590	89.5	154.5	69.5	121	41,005	71,390.0	0.783172
40	741	120.6	123.4	93.6	96.3	69,358	71,358.3	0.780389
35	825	151.1	92.9	117	72.3	96,525	59,647.5	0.778256
30	501	181.9	62.1	141.2	48.5	70,741	24,298.5	0.780998
25	396	212.8	31.2	165	24.3	65,340	9,622.8	0.778846
20/Below	585	244	0	189.3	0	110,741	0.0	

				Base Usage	1,772,159			\$/kWh	\$ Savings	WSE Cost (for both chillers)	ROI
Totals	8760				480,269	1,291,889.7		\$0.07	\$90,432	\$184,000	2.03
								\$0.06	\$77,513	\$184,000	2.37
								\$0.05	\$64,594	\$184,000	2.85

KW/TON ON CHILLER STAYS AT .78 FROM 60 DEGREES F AND BELOW

Meeting Energy Efficiency Requirements for Air-Cooled Electric Chillers
http://www.eere.energy.gov/energytechnologies/energy_efficiency.html
The following tables describe the efficiency requirements that air-cooled chillers must meet. Note that chiller installations are typically optimized for full-load or part-load operation. Select the requirement (full-load or part-load optimization) that applies to your application, and make sure that the chiller you purchase meets both full-load and integrated part-load value (IPLV) requirements for that application as shown below.

Table 1. Efficiency Requirements for Federal Purchases: Air-Cooled Electric Chillers*

Chiller Capacity	Full-Load Optimized Applications products must meet both levels		Part-Load Optimized Applications products must meet both levels	
	Full Load Efficiency	IPLV	Full Load Efficiency	IPLV
< 150 tons	Y	Y	Y	Y
	< 1.15 kW/ton (0-15.40 EER)	< 0.56 kW/ton (0-15.40 EER)	< 1.25 kW/ton (0-15.38 EER)	< 0.78 kW/ton (0-15.38 EER)
≥ 150 tons				
		< 0.56 kW/ton (0-15.75 EER)		< 0.66 kW/ton (0-15.67 EER)

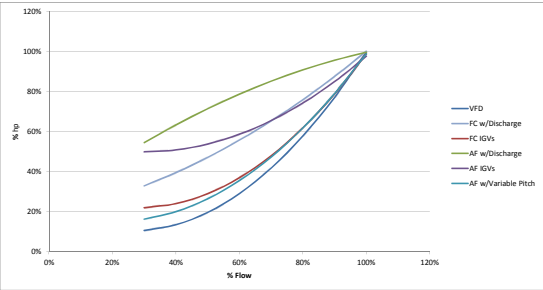
You may choose to use either the cooling capacity (kW/ton) or the Energy Efficiency Ratio (EER, Btu/watt-hr) to determine a product's compliance.

* Tables are based on standard rating conditions as described in Air-Conditioning, Heating, and Refrigeration Institute (AHRI) Standard 550/590. Only packaged chillers (i.e., units with controls contained) are covered.

* Performance requirements are provided in both kilowatt (kW) and energy efficiency ratio (EER or Btu/watt-hr) units for convenience. When comparing air-cooled and water-cooled chillers, EER (Btu/watt-hr) is a common metric.

	VFD	FC w/Discharge	FC IGVs	AF w/Discharge	AF IGVs	AF w/Variable Pitch
% Flow	% Hp	% Hp	% Hp	% Hp	% Hp	% Hp
30%	11%	33%	22%	54%	50%	16%
40%	13%	39%	24%	63%	51%	20%
50%	20%	47%	29%	71%	54%	26%
60%	29%	56%	37%	79%	59%	35%
70%	42%	65%	48%	85%	65%	47%
80%	58%	76%	62%	91%	74%	62%
90%	77%	87%	79%	96%	85%	79%
100%	100%	100%	99%	100%	98%	99%

		VFD	FC w/Discharge	FC IGVs	AF w/Discharge	AF IGVs	AF w/Variable Pitch	
X-Axis	% HP	x3	1.351	0.602	2.268	2.933	0.914	1.304
Y-Axis	% Flow	x2	-2.885	-1.750	-5.002	-5.304	-24.259	-3.110
		x	2.439	2.501	4.098	4.349	20.426	2.786
		b	0.102	-0.353	-0.348	-0.969	-5.039	-0.058
		R2	0.995	1.000	0.993	1.000	0.991	0.998
		VFD <th>FC w/Discharge</th> <th>FC IGVs</th> <th>AF w/Discharge</th> <th>AF IGVs</th> <th>AF w/Variable Pitch</th>	FC w/Discharge	FC IGVs	AF w/Discharge	AF IGVs	AF w/Variable Pitch	
X-Axis	% Flow	x2	1.65259695	0.5	1.49567095	-0.410714	0.97023797	1.34523797
Y-Axis	% HP	x	-0.87478399	0.31	-0.84813905	1.17892909	-0.57916701	-0.56928599
		b	0.21976201	0.19066702	0.31961904	0.22714299	0.58434498	0.21204801
From vQues 3.64								



Mercantile Customer Project Commitment Agreement
Cash Rebate Option

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between Ohio Edison Company, its successors and assigns (hereinafter called the "Company") and Involta LLC, Taxpayer ID No. 26-0610499 its permitted successors and assigns (hereinafter called the "Customer") (collectively the "Parties" or individually the "Party") and is effective on the date last executed by the Parties as indicated below.

WITNESSETH

WHEREAS, the Company is an electric distribution utility and electric light company, as both of these terms are defined in R.C. § 4928.01(A); and

WHEREAS, Customer is a mercantile customer, as that term is defined 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

WHEREAS, 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 Portfolio Plan ("Company Plan") that the Company will implement in order to comply with the Statute; and

WHEREAS, 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 inclusion in the Company Plan has been reasonably encouraged 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 receipt and sufficiency of which is hereby acknowledged, the parties, intending to be legally bound, do hereby agree as follows:

1. **Customer Energy Projects.** 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 purposes of complying with the Statute. By committing the Customer Energy Project(s), Customer further acknowledges and agrees that the Company shall take ownership of the energy efficiency capacity rights associated with said Project(s) and shall, at its sole discretion, aggregate said capacity into the PJM market 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 federal and/or state programs in which certain parameters are required to be maintained in order to retain preferential financing or other government 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 Benefits, 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 current 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-arranged 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 inclusion 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 narrative description of the Customer Energy 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 amount 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) costs 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 Energy Project qualifies for a rebate program approved by the Commission and offered by the Company, Customer may still elect to file such project under the Company's mercantile customer self direct program, however the Cash Rebate that will be paid shall be discounted 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 written 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 Agreement by the Customer, Customer agrees and acknowledges that it will repay to the Company, within 90 days of receipt 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 Agreement 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 appealable order or the Ohio Supreme Court issuing its opinion should the matter be appealed.

5. **Confidentiality.** Each Party shall hold in confidence and not release or disclose to any person any document or information furnished by the other Party in connection with this Agreement that is designated as confidential and proprietary ("Confidential Information"), unless: (i) compelled to disclose such document or information 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-confidential basis at the time of disclosure.
 - a. Notwithstanding the above, a Party may disclose to its employees, directors, attorneys, consultants and agents all documents and information furnished by the other Party in connection with this Agreement, provided that such employees, directors, attorneys,

consultants and agents have been advised of the confidential 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 Information shall protect it with the same standard of care as its own confidential or proprietary information.
 - c. A Party receiving notice or otherwise concluding that Confidential Information furnished by the other Party 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 filing 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 Staff any and all Customer information, including Confidential Information, related to a Customer 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 facsimile transmission addressed as follows:

If to the Company:

FirstEnergy Service Company
76 South Main Street
Akron, OH 44308
Attn: Victoria Nofziger
Telephone: 330-384-4684
Fax: 330-761-4281
Email: vmnofziger@firstenergycorp.com

If to the Customer:

Involta LLC
191 East Miller Avenue
Akron, Ohio, 44301
Attn: Jeff Thorsteinson
Telephone: 319.551.5168
Fax:
Email: JThorsteinson@involta.com

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 deemed received on the next business day; provided that notice by facsimile transmission will be deemed to have been received 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 connection with this Agreement, have been fully advised in connection with the execution thereof, have taken all legal and corporate steps necessary to enter into this Agreement, and that the undersigned has the authority to enter into this Agreement, to bind the Parties to all provisions herein and to take the actions required to be performed in fulfillment of the undertakings contained herein.
9. **Non-Waiver.** The delay or failure of either party to assert or enforce in any instance strict performance of any of the terms of this Agreement or to exercise any rights hereunder conferred, shall not be construed as a waiver or relinquishment to any extent of its rights to assert or rely upon such terms or rights at any 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, contains 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 waiver of the terms of this Agreement shall be binding upon any of the Parties unless 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 latter shall prevail.
11. **Assignment.** 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 further 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 State 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 shall constitute an original 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 printed or photocopied documents. Signatures transmitted by facsimile shall be considered original signatures.

IN WITNESS 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_
(Company)

By: Joh P. Dargatzis

Title: V.P. Of Energy Efficiency

Date: 6-18-13

Involta LLC_
(Customer)

By: [Signature]

Title: Chief Security Officer

Date: 5/29/13

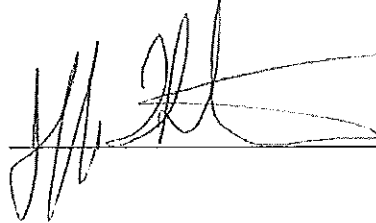
Affidavit of Involta LLC – Exhibit A

STATE OF OHIO)
) SS:
COUNTY OF Summit)

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

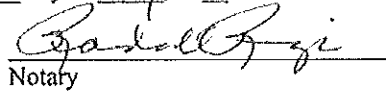
1. I am the Chief Security Officer of Involta LLC ("Customer") As part of my duties, I oversee energy related matters for the Customer.
2. The Customer has agreed to commit certain energy efficiency projects to Ohio Edison Company ("Company"), which are the subject of the agreement to which this affidavit 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.



Sworn to before me and subscribed in my presence this 3rd day of May, 2013.




Notary

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/2/2014 11:07:46 AM

in

Case No(s). 14-0160-EL-EEC

Summary: Application to Commit Energy Efficiency/Peak Demand Reduction Programs of Ohio Edison Company and Involta LLC electronically filed by Ms. Jennifer M. Sybyl on behalf of Ohio Edison Company and Involta LLC