

Case No.: 13-0136-EL-EEC

Mercantile Customer: Wilbert Inc

Electric Utility: Ohio Edison Company

Program Title or
Description: VFD Install

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 upon 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: Wilbert Inc

Principal address: 2001 Oaks Parkway, Belmont North Carolina, 28012

Address of facility for which this energy efficiency program applies: 635 Southwest Street Bellevue, Ohio 44811

Name and telephone number for responses to questions: Joe Iannello, (419) 483-2300

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: 1,200,096 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?

1/14/2010

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

222 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 \$____. (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.: 13-0136-EL-EEC

State of Ohio :

Joe Iannello, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Wilbert Inc

[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.

Joe Iannello Technical Service Manager
Signature of Affiant & Title

Sworn and subscribed before me this 22 day of Apr. 1, 2013 Month/Year

Sharon Howard
Signature of official administering oath

Sharon Hansard, Notary
Print Name and Title

My commission expires on Oct 3, 2014



SHARON HANSARD
NOTARY PUBLIC, STATE OF OHIO
My Commission Expires
October 3, 2014

Customer Legal Entity Name: Wilbert Inc.
Site Address: Bellevue
Principal Address: 635 Southwest Street

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?	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
				Also, please explain briefly how you determined this future replacement date.	
1	VFD Installation	Installed 14 VFDs to control the motor speed of 14 injection molding machines. This machines total 1580 HP of motor load. The total KW load for the machines is 222 KW. Significant energy saving are achieved during when the machine is idling and during the holding and ejection processes. During the mould's holding process, no machine activity is required. Pump pressure is only needed to keep the mould closed. Hence, the motor speed can be decreased which results in lower energy consumption. A frequency controller keeps the pumps at idling speed until they receive a command. The speed of the motor is then increased to the speed required for the removal of the product. The project was supported by the State of Ohio Department of Development as part of The Ohio energy resources Division. Calculations provided were approved by the Ohio department of Development.	The 14 machines showed a total reduction of 222 KW. The total usage of the plant was multiplied by 75% to get the load of the 32 injection molding machines. The total load of the 14 machines that were converted to VFD control was calculated based on the total HP of the 14 machines. 80% of the total for the 14 machines was assumed to be the motor load of the machines. The total load of the 14 machines was calculated. 222KW x 5400 hours of operation = a reduction of 1200096 kwh.	N/A	N/A

Exhibit 2

Customer Legal Entity Name: Wilbert Inc.

Site: Bellevue

Principal Address: 635 Southwest Street

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C)	Note 1
2011	18,090,585	18,090,585	19,290,681	
2010	12,072,000	12,072,000	13,229,353	
2009	15,231,680	15,231,680	15,231,680	
Average	15,131,422	15,131,422	15,917,238	

Project Number	Project Name	In-Service Date	Project Cost \$	KWh Saved/Year Counting towards Utility compliance	KWh Saved/Year (D) eligible for incentive	Utility Peak Demand Reduction Contribution, KW
1	VFD Installation	01/14/2010	\$173,299	1,200,096	1,200,096	222
				-	-	-
				-	-	-
				-	-	-
				-	-	-
				-	-	-
				-	-	-
Total				1,200,096	1,200,096	222

Docket No. 13-0136

Site: 635 Southwest Street

Savings as percent of usage 7.5% Note 2

= Total (D) divided by Average (C)

Customer Eligible Exemption Period: 79 Month(s) Note 3

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) Savings as a percent of usage is equal to the of total project savings (D) divided by the 3 year average Weather Adjusted Usage with Energy Efficiency Addbacks (C).

(3) Customer exemption determined by savings percentage in relation to energy efficiency schedule as set forth in O.R.C. 4928.66(A)(1)(a).

(4) The exemption period reflects the maximum potential exemption period. NOTE: The FirstEnergy Utilities cannot guarantee the length of the exemption period that will ultimately be approved by the Commission. Depending on the Commission's order, periods greater than 24 months may be capped at 24 months.

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	1,200	\$ 308	\$ 369,966	\$ 4,050	\$0	\$12,001	\$ 16,051	23.0
Total	1,200	\$ 308	369,966	4,050	\$0	\$12,001	16,051	23.0

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)

Wilbert Inc. ~ Bellevue
Docket No. 13-0136

Site: 635 Southwest Street

PLANT ENERGY GOALS

ELECT COST 0.077 \$/KWH
OPER HOURS 5400 HRS/YR

	INSTALL VSD	SAVINGS \$/YR	ELECT KWH	COST
		92,407	1,200,096	173399

	08 TOTALS	GOALS			
		2008 BASE		STRETCH THRESH	
KWH	14,719,520	BTU/LB	2,093	1,923	2,008
\$/YR	1,141,988	\$/MLBS	\$47.58	\$43.73	\$45.66
PROD LBS	24,000,000				
MMBTU SAVING:	4,096				
% REDUCTION	8.15%				

PAYOUT CALCS

0.077 \$/kwh
\$173,399 COST
1.88 YRS

14,719,520 KWH
75.00% % OF TOTAL LOAD
11,039,640 FOR 32 IMM KWH
4,427,064 FOR 14 IMM KWH
80.00% MOTOR LOAD
20.00% BARREL LOAD

3,541,651 14 IMM KWH MOTOR LOAD
5400 HRS/HR
222.24 REVISED SAVINGS

1,200,096 KWH/YR REVISED

\$92,407 \$/YR REVISED

33.89% % ENERGY REDUCTION FOR 14 IMM

INJECTION MOLDING MACHINE KW SAVINGS

INJECTION MOLDING MACHINES TO BE CONVERTED

MACHINE	KW*	HP
A02	13.37	100
B03	13.37	150
B04	13.37	150
B11	13.37	150
B12	13.37	160
B15	16.71	120
A12	21.6	75
A07	23.63	100
A08	23.63	100
B01	10.02	75
B06	10.02	75
B08	10.02	100
A06	23.63	100
A09	16.13	125
	222.24	1580

*PER RSW TECHNOLOGIES PLANT STUDY

INJECTION MOLDING MACHINES CONVERTED

MACHINE	HP
B05	120
A02	175
A03	175
A10	175
B02	120
B07	120
A04	160
A05	160
B03	100
B04	100
B11	100
B12	100
B15	100
A13	125
A14	125
A15	125
A16	125
B16	125
A11	120
A12	120
A01	175
A07	150
A08	150
B09	60
B10	60
B17	175
B01	75
B06	75
B08	75
A06	150
B14	75
A09	150

3940

Primary electric service Bellevue facility. 2500 KW

	billed demand	Usage KWH	Days	Cost	daily avg.	Notes
Jun-07		979680		\$72,141.37		
Jul-07	1809.6	1175360	31	\$80,054.72		
Aug-07	1788.8	1248320	33	\$81,662.45		
Sep-07	1768.0	1115680	29	\$77,264.60		
Oct-07	1856.0	1199520				
Nov-07	1790.4	1203200				
Dec-07	1774.4	1102880				
Jan-08	1777.6	1007200	31	\$77,955.68		
Feb-08	1960.0	1264000	31	\$90,789.16	\$2,929.00	4 of 5 1100 online
Mar-08	1968.0	1033600	27	\$83,481.28	\$3,092.00	
Apr-08	2032.0	1388160	33	\$98,158.96	\$2,975.00	
May-08	2030.4	1226240	30	\$92,665.02	\$3,089.00	shut down 5/25 5/26
Jun-08	1968.0	1210560	29	\$90,569.89	\$3,123.00	additional 1100 ton online
Jul-08	1947.2	1046560	32	\$87,014.61	\$2,719.00	down week of forth of July
Aug-08	2028.8	1243840	29	\$96,056.82	\$3,312.00	
Sep-08	1972.8	1159200	31	\$91,641.38	\$2,956.00	
Oct-08	2123.2	1261120	31	\$97,486.22	\$3,145.00	
Nov-08	2144.0	1303360	29	\$99,453.97	\$3,430.00	
Dec-08	2094.4	1139840	34	\$92,625.97	\$2,724.00	Nov 26-29 Off 11-28 12-25,26
Jan-09	2152.0	1184960	29	\$97,801.82	\$3,372.00	
Feb-09	2118.4	1320320	30	\$101,318.65	\$3,377.00	Began VFD install 2/3/09 first round VFD installed and running



135 Dixie Highway · Rossford, OH 43460
Phone: 800-247-2102 · Fax: 419-662-8200

Engineered Process Systems, LTD.

PO Box 471

Huron, OH 44839

Attn: Michael Spacek

Phone: (419) 433-7048

Fax: (419) 433-6872

Quote Number: IK11-01

11-Nov-08

Machine	ID #	Unit Price	System	KwH Savings	Savings / Year	ROI in Months	Hours	Cycle Time	Voltage	Total H.P.
Cincinnati 1000	A01	\$16,790.00	Transparent	24.26	\$16,299.00	13.13	8400	30 - 45 Seconds	480	175
Cincinnati 1000	A02	\$16,790.00	Transparent	27.56	\$18,522.00	11.56	8400	60 + Seconds	480	175
Cincinnati 1000	A03	\$16,790.00	Transparent	27.56	\$18,522.00	11.56	8400	60 + Seconds	480	175
Cincinnati Milacro	A04	\$15,985.00	Transparent	25.20	\$16,934.00	12.07	8400	60 + Seconds	480	160
Cincinnati Milacro	A05	\$15,985.00	Transparent	25.20	\$16,934.00	12.07	8400	60 + Seconds	480	160
Toshiba 950	A06	\$21,045.00	Transparent	23.63	\$15,876.00	17.00	8400	60 + Seconds	480	150
Mitsubishi 950	A07	\$16,330.00	Transparent	23.63	\$15,876.00	13.14	8400	60 + Seconds	480	150
Mitsubishi 950	A08	\$16,330.00	Transparent	23.63	\$15,876.00	13.14	8400	60 + Seconds	480	150
JSW 800	A09	\$16,330.00	Transparent	15.12	\$10,161.00	20.53	8400	60 + Seconds	480	150
Cincinnati 1000	A10	\$16,790.00	Transparent	27.56	\$18,522.00	11.56	8400	60 + Seconds	480	175
Toshiba 720	A11	\$14,720.00	Transparent	21.60	\$14,515.00	13.04	8400	60 + Seconds	480	120
Toshiba 720	A12	\$14,720.00	Transparent	21.60	\$14,515.00	13.04	8400	60 + Seconds	480	120
Van Dorn 1100	A13	\$10,950.00	Transparent	16.71	\$11,227.00	12.40	8400	60 + Seconds	480	125
Van Dorn 1100	A14	\$10,950.00	Transparent	16.71	\$11,227.00	12.40	8400	60 + Seconds	480	125
Van Dorn 1100	A15	\$10,950.00	Transparent	16.71	\$11,227.00	12.40	8400	60 + Seconds	480	125
Van Dorn 1100	A16	\$10,950.00	Transparent	16.71	\$11,227.00	12.40	8400	60 + Seconds	480	125
Cincinnati 600	B01	\$8,165.00	Transparent	10.02	\$6,736.00	15.70	8400	60 + Seconds	480	75
Cincinnati 700	B02	\$14,720.00	Transparent	24.30	\$16,330.00	11.59	8400	60 + Seconds	480	120
Cincinnati 725	B03	\$8,625.00	Transparent	13.37	\$8,981.00	12.39	8400	60 + Seconds	480	100
Cincinnati 725	B04	\$8,625.00	Transparent	13.37	\$8,981.00	12.39	8400	60 + Seconds	480	100
Cincinnati 700	B05	\$14,720.00	Transparent	27.00	\$18,144.00	10.43	8400	60 + Seconds	480	120
Cincinnati 600	B06	\$8,165.00	Transparent	10.02	\$6,736.00	15.70	8400	60 + Seconds	480	75
Cincinnati 700	B07	\$14,720.00	Transparent	24.30	\$16,330.00	11.59	8400	60 + Seconds	480	120
Cincinnati 600	B08	\$8,165.00	Transparent	10.02	\$6,736.00	15.70	8400	60 + Seconds	480	75
HPM 400	B09	\$7,360.00	Transparent	10.69	\$7,185.00	13.38	8400	60 + Seconds	480	60
HPM 400	B10	\$7,360.00	Transparent	10.69	\$7,185.00	13.38	8400	60 + Seconds	480	60
Cincinnati 725	B11	\$8,625.00	Transparent	13.37	\$8,981.00	12.39	8400	60 + Seconds	480	100
Cincinnati 725	B12	\$8,625.00	Transparent	13.37	\$8,981.00	12.39	8400	60 + Seconds	480	100
Cincinnati 500	B14	\$8,165.00	Transparent	9.11	\$6,124.00	17.27	8400	45 - 60 Seconds	480	75
Van Dorn 730	B15	\$8,625.00	Transparent	13.37	\$8,981.00	12.39	8400	60 + Seconds	480	100
Van Dorn 1100	B16	\$10,950.00	Transparent	16.71	\$11,227.00	12.40	8400	60 + Seconds	480	125
Van Dorn 1000	B17	\$16,790.00	Transparent	22.05	\$14,818.00	14.45	8400	60 + Seconds	480	175



135 Dixie Highway · Rossford, OH 43460
Phone: 800-247-2102 · Fax: 419-662-8200

Engineered Process Systems, LTD.

PO Box 471

Huron, OH 44839

Attn: Michael Spacek

Phone: (419) 433-7048

Fax: (419) 433-6872

Quote Number: IK11-01

11-Nov-08

KwH Cost:	\$0.0800
Yearly kWh Savings	\$399,916.00
Yearly Savings: Tower, Oil, Maintenance, Other	\$0.00
Total Yearly Savings:	\$399,916.00
Average ROI in months	11.76 Months

Power Miser System Totals:	\$404,810.00
Installation:	\$27,600.00
Total Plant Price - Including Installation:	\$432,410.00
Large machine Discount	\$40,481.00
Net Plant Price	\$391,929.00

Quote is valid for 30 days

Warranty: 2 years on parts, 6 months on labor

Terms: 60% down, balance net 30 days

Delivery: 3-4 wks ARO and down payment

Prices are FOB Rossford, Ohio U.S.A.

Prices are in U.S. Dollars

State and Local Taxes are not included

Technician travel expenses not included

Nema 1 Cabinets, Floor mounted with 6 ft. sealtite maximum

Environmental Impact

Reduction per Year in:

CO₂ : 4499.04 tons

SO₂ : 49989.37 Kilograms

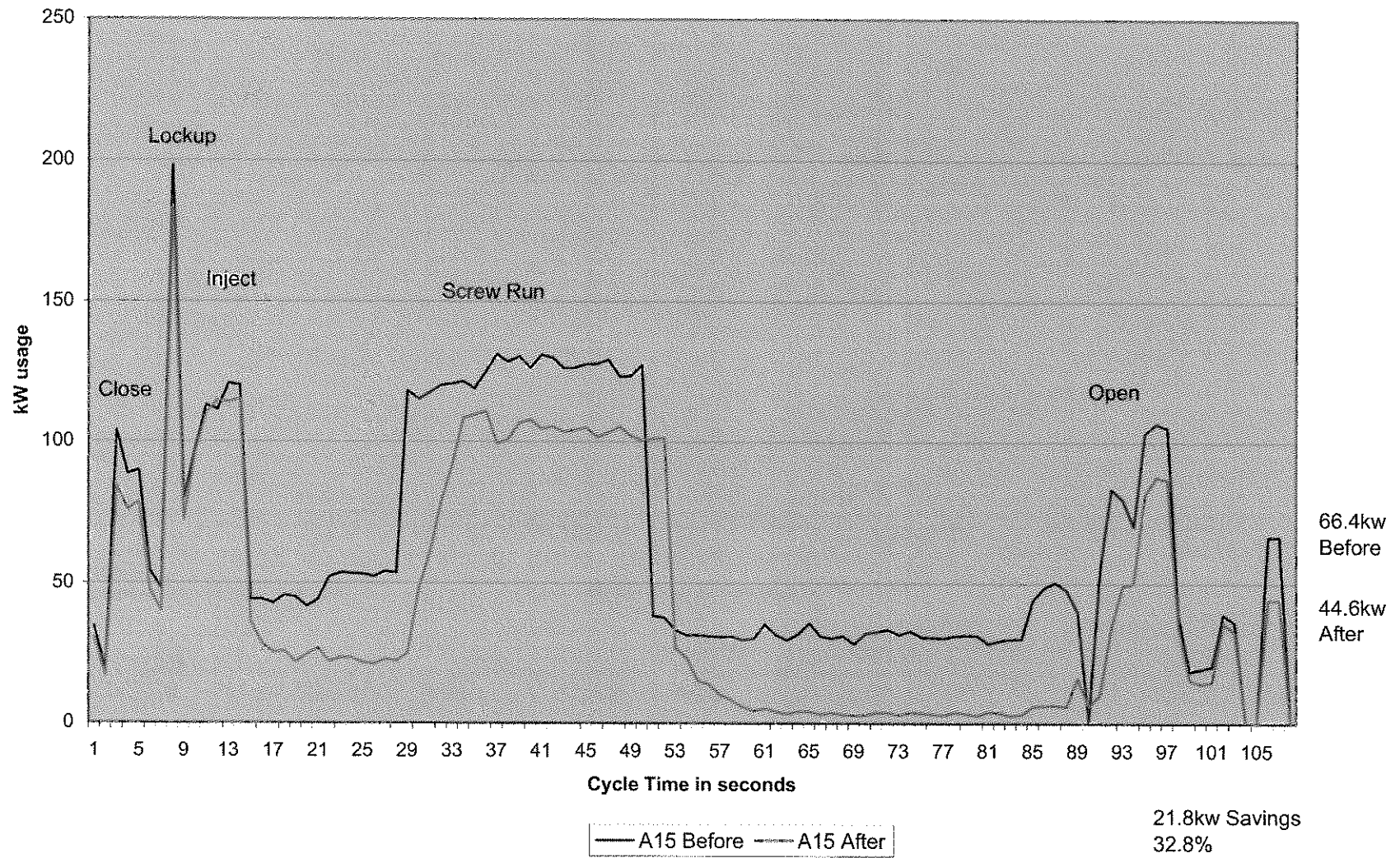
NO_x : 17496.28 Kilograms

Kw saved per hour.: 595.11

KwH saved per year: 4,998,937

With this Kw savings, 714 homes could be powered for a year.

Van Dorn 1100 #A15



From: Eric McMillan [mailto:emcmillan@wilbertinc.com]

Sent: Tuesday, March 24, 2009 12:38 PM

To: Sutor, Anthony J.

Cc: Mike Leitert; Don Griffin; Mike Spacek

Subject: VFD annual savings calculations

3-24-09

Tony,

I am sending you the information needed per our conversations for the KW savings from the VFD project here at Wilbert, Inc... I will send three attachments with my calculations to verify where the numbers came from. Also I used conservative numbers for machine run hours ect.

- The first attachment shows a summary of information from the utility bills here at Wilbert, Inc. I will only use 2008 to demonstrate the savings.

In 2008 we used 14,283,680 KW plant wide. This was totaled from our utility bills.

- Assuming that 75% of our connected load is made up of our injection molding machines and 80% of that number is actual motor load with 20% being barrel heats. This can be supported by looking at the total horsepower column in the second attachment which is the proposal from RSW Technologies.

Annual KW X 75%=IMM load IMM load X 80%=Motor load

$14,283,680 \text{ KW} \times 75\% = 10,712,760 \text{ KW} \times 80\% = 8,570,280 \text{ KW Motor load}$

- Currently we operate on a 24/7 operation but for calculating savings we will assume a 5 day operation at 90% machine operation daily.

50 weeks 5 days a week at 90% operation

$50 \text{ weeks} \times 5 \text{ days} = 250 \text{ days} \times 24 \text{ hrs a day} = 6000 \text{ hrs} \times 90\% = 5400 \text{ hrs a year of operation per machine.}$

- Also on the second attachment the total KWH savings total less the two 400 ton HPM machines is 573.77 KW per hour savings

$\text{KW per hour savings} \times 5400 \text{ hrs} = \text{KW savings per year.}$

$573.77 \text{ KW} \times 5400 \text{ hrs} = 3,098,358 \text{ KW savings per year.}$

- So taking the annual KW savings of the motor load and dividing by the annual KW the motors consume we get percentage of savings.

$3,098,358 \text{ KW savings} / 8,570,208 \text{ KW annual motor load} = 36\% \text{ savings on motor load.}$

The graph I also attached represents the saving in one hour on an 1100 Ton machine running a 105 sec cycle With 125 HP of motor load. This before and after measured comparison will be provided for each machine before final payment will be issued.

Eric McMillan
Technical Services Manager
635 Southwest Street
Bellevue, OH 44811
Phone (419) 483-2300
Fax (419) 483-2323

Mercantile Customer Project Commitment Agreement
Exemption 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 Wilbert Inc, 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 annual 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 and consistent with the Statute, desires to pursue exemption from paying charges included in the Company's then current cost recovery mechanism (hereinafter, "Rider DSE") as approved by the Public Utilities Commission of Ohio ("Commission") for recovery of the DSE2 costs associated with the Company Plan; and is committing the Customer Energy Project(s) as a result of such exemption.

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 an exemption; and

WHEREAS, in consideration of, and upon receipt of, said exemption, Customer has consented to committing the Customer Energy Project(s) to the Company and complying with all other terms and conditions set forth herein, including without limitation, the submission of an annual report on the energy savings and/or peak-demand reductions achieved by the Customer Energy Project(s).

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 applicable, "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 exemption benefits discussed in Article 3 below; and (ii) will not affect any of Customer's other requirements or obligations, including without limitation any reporting requirements, as set forth herein.
 - 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 a 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" 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 exemption from paying the DSE2 charge of the Company's Rider DSE.

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 Exemption and Annual Report. Upon Commission approval of the request for exemption, the Company will exempt Customer from paying any Rider DSE charges consistent with any Commission directives as set forth in the Commission's Finding and Order approving the Joint Application. Such exempt status shall apply to those accounts identified by Customer that pertain to those Customer sites with one or more Customer Energy Project(s) approved for integration into the Company Plan by the Commission in the Joint Application.

- a. For purposes of this Agreement, a "site" shall be a single location with one or more facilities. As examples only, a site includes an industrial plant, a hospital complex or a university located on one or more parcels of land, provided that said parcels are contiguous.
- b. For purposes of this Agreement, an "account" shall be as defined by the Company through its normal business practices. Any account identified by Customer shall be eligible for exemption, provided that said account pertains to a specific site with at least one Customer Energy Project that qualifies Customer for exemption from paying Rider DSE charges.
- c. Any new accounts created at a site on which there is already an approved Customer Energy Project shall, at the option of the Customer, be included within the exemption granted under said project, and shall be included for purposes of calculating future eligibility for exemption under the project. Any such election shall become effective in the first billing cycle after March 15th following identification of said account in the annual report required under Section 3(d)(iii) below.
- d. Customer acknowledges and agrees that if it desires to pursue such exempt status, as evidenced in the Joint Application, Customer is obligated to provide to the Company an annual report on the energy savings and peak-demand reductions achieved by the Customer Energy Project(s) on a calendar year basis. Company shall provide Customer with such information as it may require, that is in Company's possession, for the purposes of preparing such report. Company shall provide a template for Customer to use in preparing the annual report and shall make available a designated Company representative to answer questions.
 - i. Said report shall be submitted annually on or before January 31 of each year after Commission approval of the Joint Application.
 - ii. Said report shall provide all information required under the Rules, and where the requirements of the Rules conflict with a requirement under this Agreement or the Joint Application, the requirements of the Rules shall control.
 - iii. Said report shall, at a minimum, include the following information for each Customer Energy Project that has been approved by the Commission:
 - 1. A demonstration that the energy savings and peak-demand reductions associated with the Customer Energy Project(s) meet the total resource cost test or that the Company's avoided cost exceeds the cost to the Company for the Customer's program;
 - 2. A statement distinguishing programs implemented before and after January 1 of the current year;

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:

Wilbert Inc
635 Southwest Street
Bellevue, Ohio 44811
Attn: Joe Iannello
Telephone: (419) 483-2300
Fax:
Email: jiannello@WilbertInc.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.

7. **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.
8. **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.
9. **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.
10. **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.
11. **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.

12. **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.
13. **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: John C. Largin

Title: VP of Energy Efficiency

Date: 5-7-13

Wilbert Inc.
(Customer)

By: Joe Tannello

Title: Technical Service Manager

Date: 4-22-13

Affidavit of Wilbert Inc – Exhibit A

STATE OF OHIO)
) SS:
COUNTY OF *Huron*)

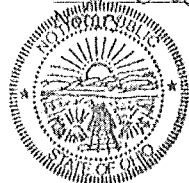
I, Joe Iannello, being first duly sworn in accordance with law, deposes and states as follows:

1. I am the Technical Service Manager of Wilbert Inc (“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 a Rider Exemption (“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.

Joe Iannello

Sworn to before me and subscribed in my presence this 22 day of April, 2013.

Sharon Hansard
 **SHARON HANSARD**
NOTARY PUBLIC, STATE OF OHIO
My Commission Expires
October 3, 2014

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

10/8/2013 9:35:53 AM

in

Case No(s). 13-0136-EL-EEC

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