



Case No.: 13-0887 -EL-EEC

Mercantile Customer: Department of Veterans Affairs – Veterans Hospital

Electric Utility: Duke Energy

**Program Title or
Description: HVAC and VFDs**

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: **Department of Veterans Affairs**

Principal address: **3200 Vine Street Cincinnati, Ohio 45220**

Address of facility for which this energy efficiency program applies:

3200 Vine Street Cincinnati, Ohio 45220

Name and telephone number for responses to questions:

Grady Reid Jr, 513-287-1038

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: **Duke Energy**

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)).

- ☒ Installation of new equipment to replace equipment that needed to be replaced The customer installed new equipment on the following date(s):

3 new chillers - 750 tons each, August 2009 (application received in 2012)

2 VFDs - 25 HP each, installed September 2012

4 VFDs - 50 HP each, installed August 2012

- ☐ 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: _____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: **1,128,794 kWh (See Attachment 1 - Appendix 2)**

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment.

- 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.

- 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?

August 2009, August 2012 and September 2012

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

251.5 KW (See Attachment 1 - Appendix 2)

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 **\$24,875.00 (See Attachment 1 - Appendix 3).**

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 Attachment 1 - Appendix 4)**

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 **\$535,200 (See Attachment 1 - Appendix 5).**

The utility's program costs were **\$16,500(See Attachment 1 - Appendix 6).**

The utility's incentive costs/rebate costs were **\$24,875(See Attachment 1 - Appendix 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.

Refer to Offer Letter following this application

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.



DUKE ENERGY
Mercantile Self Direct Program
139 East Fourth Street
Cincinnati, OH 45202
513 629 5572 fax

March 13, 2013

Mr. Kevin Henderson
Veterans Administrative Hospital 539
3200 Vine Street
Cincinnati, Ohio 41011

Subject: Your Application for a Duke Energy Mercantile Self-Direct Rebate

Dear Mr. Henderson:

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page two, a total rebate of \$24,875.00 has been proposed for your HVAC and VFD projects completed in the 2009 and 2012 calendar years. **All Self Direct Rebates are contingent upon approval by the Public Utilities Commission of Ohio (PUCO).**

At your earliest convenience, please indicate if you accept this rebate by

- providing your signature on page two
- completing the PUCO-required affidavit on page three.

Please return the documents to my attention via fax at 513-629-5572 or e-mail to SelfDirect@Duke-Energy.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO. Following PUCO's approval, Duke Energy will remit payment.

At Duke Energy, we value your business and look forward to working with you on this and future energy efficiency projects. We hope you will consider our Smart Saver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

Grady Reid, Jr.
Product Manager
Mercantile Self Direct Rebates

cc: Mike Heath, Duke Energy
Rob Jung, Ecova
Mark Zimmerman, Shrudde and Zimmerman

Please indicate your response to this rebate offer within 30 days of receipt.

☒ Rebate is accepted.

☐ Rebate is declined.

By accepting this rebate, Veterans Administrative Hospital affirms its intention to commit and integrate the energy efficiency projects listed on the following pages into Duke Energy's peak demand reduction, demand response and/or energy efficiency programs.

Additionally, Veterans Administrative Hospital also agrees to serve as joint applicant in any future filings necessary to secure approval of this arrangement as required by PUCO and to comply with any information and reporting requirements imposed by rule or as part of that approval.

Finally, Veterans Administrative Hospital affirms that all application information submitted to Duke Energy pursuant to this rebate offer is true and accurate. Information in question would include, but not be limited to, project scope, equipment specifications, equipment operational details, project costs, project completion dates, and the quantity of energy conservation measures installed.

If rebate is accepted, will you use the monies to fund future energy efficiency and/or demand reduction projects?

☒ YES ☐ NO

If rebate is declined, please indicate reason (optional):

Kevin Henderson Kevin Henderson 3/15/13

Customer Signature

Printed Name

Date

Proposed Rebate Amounts

Measure ID	Energy Conservation Measure (ECM)	Proposed Rebate Amount
ECM-1	Water Cooled Chiller greater than 300 ton 0.58 kW ton with 0.41 kW ton IPLV	\$12,375.00
ECM-2	VFD HVAC Fan 1.5 – 50 HP (Qty 2)	\$2500.00
ECM-3	VFD HVAC Pumps 1.5 – 50 HP (Qty 4)	\$10,000.00
Total		\$24,875.00



Public Utilities Commission

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

Case No.: ____ - ____ -EL-EEC

State of Ohio :

Kevin Henderson, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Cincinnati Veterans Affairs Medical Center

[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.

3. I am aware of fines and penalties which may be imposed under Ohio Revised Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information.

Kevin Henderson, Energy Manager, 3/15/13
Signature of Affiant & Title

Sworn and subscribed before me this 15 day of MARCH,
2013 Month/Year

Karen S. Winstead
Signature of official administering oath

KAREN S. WINSTEAD
Print Name and Title

My commission expires on January 19, 2014



Karen S. Winstead
Notary Public, State of Ohio
My Commission Expires 01-19-2014

Attachment 1 - Department of Veterans Affairs (Veterans Hospital)

Appendix 1 – Electric History

Electric Meter# 108026018 - Rate DP02			
VETERANS ADMIN HOSP 539			
3200 VINE CINCINNATI, OH 45220			
Date	Days	Actual KWH	
11/29/2012	31	1,376,340	
10/29/2012	31	1,624,889	
9/28/2012	30	1,855,042	
8/29/2012	29	1,902,216	
7/31/2012	32	2,265,554	
6/29/2012	29	1,843,020	
5/31/2012	30	1,827,708	
5/1/2012	32	1,545,950	
3/30/2012	29	1,485,662	
3/1/2012	29	1,302,790	
2/1/2012	29	1,281,146	
1/3/2012	33	1,489,733	
Total		19,800,050	

Appendix 2 – Annual kWh and KW savings

Measure	Annual kWh Gross with Savings Per Measure	Measure Amount	TOTAL Annual kWh Saved	KW Gross with Savings Per Measure	Total KW Saved	Existing Equipment Assumptions	New Equipment Assumptions	Baseline Annual kWh Savings Per Measure	Baseline Annual KW Savings Per Measure
Water-Cooled cent Chiller greater than 300 ton 0.58 kW_ton with 0.41 kW_ton IPLV	133.92	2250 (Tons)	301320	0.05	112.5	Base efficiency is assumed to be .58 kW/ton full load and .55 kW/ton IPLV. Large Office Building type is assumed. A market average of HVAC air distribution schemes are assumed.	New efficiency is assumed to be .58 kw/ton full load and .41 kw/ton IPLV. Large Office Building type is assumed. A market average of HVAC air distribution schemes are assumed.	124.65	0.04
VFD HVAC Fans ONLY (1.5-50 HP)	1335.12	50 (HP)	66756	0.22	11	Base efficiency is assumed to be Variable Air Volume with inlet vane. A market average of building types and HVAC air distribution schemes are assumed.	New efficiency is assumed to be Variable Air Volume with VFD. A market average of building types and HVAC air distribution schemes are assumed.	1242.76	0.21
VFD HVAC Pumps ONLY (1.5-50 HP)	3803.59	200 (HP)	760718	0.64	128	Base efficiency is assumed to be a constant volume pump. A market average of building types and HVAC air distribution schemes are assumed.	New efficiency is assumed to be a variable volume pump with VFD. A market average of building types and HVAC air distribution schemes are assumed.	3540.46	0.60
Totals		2500	1,128,794		251.5				

Note: DSMore calculated the kW savings based on load shapes and energy savings. These values may also reflect minor DSMore software rounding error

Appendix 3 – Cash Rebate

Measure	Amount
Water-Cooled cent Chiller greater than 300 ton 0.58 kW_ton with 0.41 kW_ton IPLV	\$12,375.00
VFD HVAC Fans ONLY (1.5-50 HP)	\$2,500.00
VFD HVAC Pumps ONLY (1.5-50 HP)	\$10,000.00
Totals	\$24,875.00

Appendix 4 – Utility Cost Test

Measure	UCT
Water-Cooled cent Chiller greater than 300 ton 0.58 kW_ton with 0.41 kW_ton IPLV	11.1
VFD HVAC Fans ONLY (1.5-50 HP)	14.5
VFD HVAC Pumps ONLY (1.5-50 HP)	16.5

Appendix 5 – Avoided Supply Costs

Measure	T&D	Production	Capacity	Measure Amount	Total Avoided Costs
Water-Cooled cent Chiller greater than 300 ton 0.58 kW_ton with 0.41 kW_ton IPLV	\$11.00	\$57.00	\$35.00	2250 (Tons)	\$231,750
VFD HVAC Fans ONLY (1.5-50 HP)	\$32.00	\$358.00	\$99.00	50 (HP)	\$24,450
VFD HVAC Pumps ONLY (1.5-50 HP)	\$92.00	\$1,020.00	\$283.00	200 (HP)	\$279,000
Totals				2500	\$535,200

Appendix 6 – Utility Program Costs

Measure	Measure Amount	Admin Costs	Total Costs
Water-Cooled cent Chiller greater than 300 ton 0.58 kW_ton with 0.41 kW_ton IPLV	2250 (Tons)	\$4.00	\$9,000
VFD HVAC Fans ONLY (1.5-50 HP)	50 (HP)	\$14.00	\$700
VFD HVAC Pumps ONLY (1.5-50 HP)	200 (HP)	\$34.00	\$6,800
Totals	2500		\$16,500

Ohio Mercantile Self Direct Program

Application Guide & Cover Sheet

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email this form along with completed Mercantile Self Direct Prescriptive or Custom applications, proof of payment, energy savings calculations and spec sheets to SelfDirect@Duke-Energy.com. You may also fax to 1-513-629-5572.

Mercantile customers, defined as using at least 700,000 kWh annually are eligible for the Mercantile Self Direct program. Please indicate mercantile qualification:

- ☒ a single Duke Energy Ohio account
☐ multiple accounts in Ohio (energy usage with other utilities may be counted toward the total)

Please list Duke Energy account numbers below (attach listing of multiple accounts and/or billing history for other utilities as required):

Account Number	Annual Usage	Account Number	Annual Usage
9180-0750-01-1	20,251,000 kWh		

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart Saver® Custom Incentive. Self Direct incentives are applicable to Prescriptive measures that were installed more than 90 days prior to submission to Duke Energy and have not previously received a Duke Energy Prescriptive rebate.

Self Direct Program requirements dictate that certain projects that may be Prescriptive in nature under the Smart Saver program must be evaluated using the Custom process. Use the table on page two as a guide to determine which Self Direct program fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet. Where Mercantile Self Direct Prescriptive applications are listed, please refer to the measure list on that application. If your measure is not listed, you may be eligible for a Self Direct Custom rebate. Self Direct Custom applications, like Smart Saver Custom applications, should include detailed analysis of pre-project and post-project energy usage and project costs. Please indicate which type of rebate applications are included in the table provided on page two.

Please check each box to indicate completion of the following program requirements:

<input checked="" type="checkbox"/> All sections of appropriate application(s) are completed	<input checked="" type="checkbox"/> Proof of payment.*	<input checked="" type="checkbox"/> Manufacturer's Spec sheets	<input type="checkbox"/> Energy model/calculations and detailed inputs for Custom applications
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* If a single payment record is intended to demonstrate the costs of both Prescriptive & Custom projects, please include an additional document with an estimated breakout of costs for each Prescriptive and Custom energy conservation measure.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction
Lighting	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Prescriptive Lighting <input type="checkbox"/>	MSD Prescriptive Lighting <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>
Heating & Cooling	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>
Chillers & Thermal Storage	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Chillers & Thermal Storage <input checked="" type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Chiller Tune-ups	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>
Motors & Pumps	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Motors, Pumps & Drives <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
VFDs	Not Applicable	MSD Prescriptive Motors, Pumps & Drives <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>	
Food Service	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Food Service <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Air Compressors	MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>	MSD Prescriptive Process <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>
Process	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Process <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	
Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>
Behavioral*** & No/Low Cost		MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	

** Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. **All equipment replacements due to failure or old age will be evaluated via the Custom program.**

*** Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

**** Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application.



MERCANTILE SELF DIRECT Ohio Chillers / Thermal Storage Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-629-5572

Is this application: ☒ **NEW** (original) or ☐ **REVISED** (changes made to original application)

**This was submitted in 2009 but was lost by the Duke Energy rebate team in*

Building Type - Required (check one)		
<input type="checkbox"/> Data Centers	<input type="checkbox"/> Full Service Restaurant	<input type="checkbox"/> Office
<input type="checkbox"/> Education/K-12	<input checked="" type="checkbox"/> Healthcare	<input type="checkbox"/> Public Assembly
<input type="checkbox"/> Education Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Order/Safety
<input type="checkbox"/> Elder Care/Nursing Home	<input type="checkbox"/> Lodging	<input type="checkbox"/> Religious Worship/Church
<input type="checkbox"/> Food Sales/Grocery	<input type="checkbox"/> Retail (Small Box)	<input type="checkbox"/> Service
<input type="checkbox"/> Fast Food Restaurant	<input type="checkbox"/> Retail (Big Box)	<input type="checkbox"/> Warehouse
<input type="checkbox"/> Other:		
How did you hear about the program? (check one)		
<input checked="" type="checkbox"/> Duke Energy Representative	<input type="checkbox"/> Web Site	<input type="checkbox"/> Radio
<input type="checkbox"/> Contractor / Vendor	<input type="checkbox"/> Other	

Please check each box to indicate completion of the following program requirements:

<input checked="" type="checkbox"/> All sections of application	<input checked="" type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer	<input checked="" type="checkbox"/> Tax ID number for payee	<input checked="" type="checkbox"/> Customer/vendor agree to Terms and Conditions
---	--	---	---

Customer Information			
Customer/Business	Dept. of Veterans Affairs	Contact	Kevin Henderson
Phone	513 487 6698	Account Number	9180-0760-01-1
Street Address (Where incentive should be mailed)		3200 Vine St.	
City	Cincinnati	State	OH
Zip Code	45220		
Installation Street Address	3200 Vine St.		
City	Cincinnati	State	OH
Zip Code	45220		
E-mail Address	Kevin.Henderson@va.gov		

*Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.

Vendor Information			
Vendor	Shrude & Zimmerman	Contact	Mark Zimmerman
Phone	859 331-3160	Fax	859 331-8261
Street Address	1671 Park Rd. Ste. #11		
City	Fort Wright	State	KY
Zip Code	41011		
E-mail Address	MNZ@Shrude-Zimmerman.com		

If Duke Energy has questions about this application, who should we contact? ☒ Customer ☐ Vendor

Payment Information	
Who should receive incentive payment?	<input checked="" type="checkbox"/> Customer <input type="checkbox"/> Vendor (Customer must sign below)
I hereby authorize payment of incentive directly to the vendor:	Customer Signature (written signature)
	Date
Provide Tax ID Number for Payee	Customer Tax ID #
	Vendor Tax ID #

Terms and Conditions	
I have read and hereby agree to the Terms & Conditions and Program Requirements.	
Customer Signature	Vendor Signature
Date	Date
Title	Title

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.

The Equipment below is (check one): ☐ New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

See Page 4 of form for required efficiency levels and equipment eligibility

Air Cooled Chillers									
Make/Model # Scroll/Screw Type	# of Units	AHRI Tons/Unit	Full-load kW/ton*	Incentive \$/ton	IPLV kW/ton*	Incentive \$/ton	Building Type	Date Installed & Operable (mm/yy)	Total Incentive

* Chiller performance and IPLV must be tested under AHRI conditions - submit documentation of compliance

The Equipment below is (check one): ☐ New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

See Page 4 of form for required efficiency levels and equipment eligibility

Water Cooled Chillers										
Description	Make/Model #	# of Units	AHRI Tons/Unit	Full-load kW/ton*	Incentive \$/ton	IPLV kW/ton*	Incentive \$/ton	Building Type	Date Installed & Operable (mm/yy)	Total Incentive
<input type="checkbox"/> Screw/Scroll Chiller	Carrier 19XRV65- 66465LE- H64	3	750	.562	#2.5	.36	#3.00	Hospital	08/09	#12,375
<input checked="" type="checkbox"/> Centrifugal Chiller										
<input type="checkbox"/> Screw/Scroll Chiller										
<input type="checkbox"/> Centrifugal Chiller										
<input type="checkbox"/> Screw/Scroll Chiller										
<input type="checkbox"/> Centrifugal Chiller										

* Chiller performance and IPLV must be tested under AHRI conditions - submit documentation of compliance

Thermal Storage Incentives

The Equipment below is (check one): ☐ New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

Thermal Storage System Specifications*	
Manufacturer of Thermal Storage Equipment	
Type of Thermal Storage	<input type="checkbox"/> Chilled Water <input type="checkbox"/> Ice Bank <input type="checkbox"/> Ice Harvester
Model Number	
Controls Manufacturer	
Control Strategy	<input type="checkbox"/> Demand Limiting <input type="checkbox"/> Maximum Cooling Shift
Number of Thermal Storage Units	
Partial or Full Storage	<input type="checkbox"/> Partial Storage <input type="checkbox"/> Full Storage
Demand Shifted (kW)XX	
Storage Capacity (Ton Hours)	
Storage Capacity (Gallons If Applicable)	
Peak Cooling Load (Tons)	
Cooled Area (sq. ft.)	
Hours of Operations M-F	
Hours of Operations Sat	
Hours of Operations Sun	
Date Installed and Operable (mm/yy)	
Thermal Storage chiller Plant Description (Manufacturer, Tonnage, Ice Making kW/ton)	
Condenser Type	<input type="checkbox"/> Air Cooled <input type="checkbox"/> Water Cooled
Premium cost for Thermal Storage (Dollars)	
Annual Electrical Operating Cost with Storage (Dollars)	
Annual Savings as a result of Thermal Storage (Dollars)	
Simple Payback including Incentive (Years)	
Total Incentive (\$190/kW shifted)	
Conventional System Specifications (For Comparison Purposes)	
Chiller Plant Description (Manufacturer, type, tonnage, AHRI kW/ton)	
Chiller Demand (kW)	
Annual Electrical Operating Cost with Conventional Cooling	

*Thermal Storage Units with a >1MW load shift are not eligible for incentives under the Prescriptive Program but can be considered for custom incentives. The Custom application and process document are located on the Self Direct websites.

** Average demand shifted during the peak demand timeframe of 10:00am to 6:00pm for summer months of May through September.

Equipment Requirements

Chillers Incentive Table & AHRI Rated Efficiency Requirements*

AIR COOLED CHILLERS – All Sizes

Total Incentive = Base + Additional

Scroll/Scroll Type Chillers

Full load kW/ton – EER	Base Incentive \$/ton	Part Load IPLV kW/ton – EER	Additional Incentive \$/ton
1.230 - 9.80	\$4.00	1.130 - 10.60	
1.230 - 9.80	\$4.00	1.010 - 11.90	\$5.83
1.230 - 9.80	\$4.00	0.890 - 13.50	\$12.07
1.230 - 9.80	\$4.00	0.810 - 14.80	\$15.75
1.142 - 10.50	\$12.50	1.046 - 11.50	
1.142 - 10.50	\$12.50	0.925 - 13.00	\$6.00
1.142 - 10.50	\$12.50	0.879 - 13.70	\$8.35
1.142 - 10.50	\$12.50	0.674 - 17.80	\$18.60
1.046 - 11.50	\$15.00	0.961 - 12.50	
1.046 - 11.50	\$15.00	0.847 - 14.20	\$5.70
1.046 - 11.50	\$15.00	0.795 - 15.10	\$8.30
1.046 - 11.50	\$15.00	0.618 - 19.40	\$17.15

WATER COOLED CHILLERS – < 150 tons

Total Incentive = Base + Additional

Screw/Scroll Type Chiller

Full load kW/ton – EER	Base Incentive \$/ton	Part Load IPLV kW/ton – EER	Additional Incentive \$/ton
0.790 - 15.20	\$2.50	0.620 - 19.40	
0.790 - 15.20	\$2.50	0.590 - 20.30	\$1.50
0.790 - 15.20	\$2.50	0.550 - 21.80	\$3.50
0.790 - 15.20	\$2.50	0.510 - 23.50	\$5.50
0.790 - 15.20	\$2.50	0.470 - 25.50	\$7.50
0.710 - 16.90	\$7.50	0.630 - 19.00	
0.710 - 16.90	\$7.50	0.560 - 21.40	\$3.50
0.710 - 16.90	\$7.50	0.530 - 22.60	\$5.00
0.710 - 16.90	\$7.50	0.500 - 24.00	\$6.50
0.710 - 16.90	\$7.50	0.460 - 26.10	\$8.50
0.710 - 16.90	\$7.50	0.430 - 27.90	\$10.00
0.630 - 19.00	\$10.00	0.560 - 21.40	
0.630 - 19.00	\$10.00	0.500 - 24.00	\$3.00
0.630 - 19.00	\$10.00	0.470 - 25.50	\$4.50
0.630 - 19.00	\$10.00	0.440 - 27.30	\$6.00
0.630 - 19.00	\$10.00	0.410 - 29.30	\$7.50
0.630 - 19.00	\$10.00	0.380 - 31.60	\$9.00

Centrifugal Type Chiller

0.700 - 17.10	\$2.50	0.570 - 21.10	
0.700 - 17.10	\$2.50	0.530 - 22.60	\$2.00
0.700 - 17.10	\$2.50	0.500 - 24.00	\$3.50
0.700 - 17.10	\$2.50	0.420 - 28.60	\$7.50
0.630 - 19.00	\$7.50	0.600 - 20.00	
0.630 - 19.00	\$7.50	0.510 - 23.50	\$4.50
0.630 - 19.00	\$7.50	0.480 - 25.00	\$6.00
0.630 - 19.00	\$7.50	0.450 - 26.70	\$7.50
0.630 - 19.00	\$7.50	0.380 - 31.60	\$11.00
0.560 - 21.40	\$10.00	0.530 - 22.60	
0.560 - 21.40	\$10.00	0.460 - 26.10	\$3.50
0.560 - 21.40	\$10.00	0.430 - 27.90	\$5.00
0.560 - 21.40	\$10.00	0.400 - 30.00	\$6.50
0.560 - 21.40	\$10.00	0.340 - 35.30	\$9.50

*AHRI Standard 550/590

2003 Standard for Performance Rating of Water-Chilling Packages using the vapor compression cycle.

WATER COOLED CHILLERS – 150-300 tons
Total Incentive = Base + Additional

Screw/Scroll Type Chiller			
Full load kW/ton – EER	Base Incentive \$/ton	Part Load IPLV kW/ton – EER	Additional Incentive \$/ton
0.720 – 16.70	\$2.50	0.570 – 21.10	
0.720 – 16.70	\$2.50	0.540 – 22.20	\$1.50
0.720 – 16.70	\$2.50	0.500 – 24.00	\$3.50
0.720 – 16.70	\$2.50	0.470 – 25.50	\$5.00
0.720 – 16.70	\$2.50	0.430 – 27.90	\$7.00
0.650 – 18.50	\$7.50	0.570 – 21.10	
0.650 – 18.50	\$7.50	0.510 – 23.50	\$3.00
0.650 – 18.50	\$7.50	0.480 – 25.00	\$4.50
0.650 – 18.50	\$7.50	0.450 – 26.70	\$6.00
0.650 – 18.50	\$7.50	0.420 – 28.60	\$7.50
0.650 – 18.50	\$7.50	0.390 – 30.80	\$9.00
0.570 – 21.10	\$10.00	0.510 – 23.50	
0.570 – 21.10	\$10.00	0.450 – 26.70	\$3.00
0.570 – 21.10	\$10.00	0.430 – 27.90	\$4.00
0.570 – 21.10	\$10.00	0.400 – 30.00	\$5.50
0.570 – 21.10	\$10.00	0.370 – 32.40	\$7.00
0.570 – 21.10	\$10.00	0.340 – 35.30	\$8.50
Centrifugal Type Chiller			
0.630 – 19.00	\$2.50	0.510 – 23.50	
0.630 – 19.00	\$2.50	0.480 – 25.00	\$1.50
0.630 – 19.00	\$2.50	0.450 – 26.70	\$3.00
0.630 – 19.00	\$2.50	0.380 – 31.60	\$6.50
0.570 – 21.10	\$7.50	0.540 – 22.20	
0.570 – 21.10	\$7.50	0.460 – 26.10	\$4.00
0.570 – 21.10	\$7.50	0.430 – 27.90	\$5.50
0.570 – 21.10	\$7.50	0.400 – 30.00	\$7.00
0.570 – 21.10	\$7.50	0.340 – 35.30	\$10.00
0.510 – 23.50	\$10.00	0.480 – 25.00	
0.510 – 23.50	\$10.00	0.410 – 29.30	\$3.50
0.510 – 23.50	\$10.00	0.390 – 30.80	\$4.50
0.510 – 23.50	\$10.00	0.360 – 33.30	\$6.00
0.510 – 23.50	\$10.00	0.300 – 40.00	\$9.00

*AHRI Standard 550/590

2003 Standard for Performance Rating of Water-Chilling Packages using the vapor compression cycle.

WATER-COOLED CHILLERS - >300 tons
Total Incentive = Base + Additional

Screw/Scroll Type Chiller			
Full load kW/ton – EER	Base Incentive \$/ton	Part Load IPLV kW/ton – EER	Additional Incentive \$/ton
0.640 – 18.75	\$2.50	0.510 – 23.50	
0.640 – 18.75	\$2.50	0.480 – 25.00	\$1.50
0.640 – 18.75	\$2.50	0.450 – 26.70	\$3.00
0.640 – 18.75	\$2.50	0.420 – 28.60	\$4.50
0.640 – 18.75	\$2.50	0.380 – 31.60	\$6.50
0.580 – 20.70	\$7.50	0.510 – 23.50	
0.580 – 20.70	\$7.50	0.450 – 26.70	\$3.00
0.580 – 20.70	\$7.50	0.430 – 27.90	\$4.00
0.580 – 20.70	\$7.50	0.400 – 30.00	\$5.50
0.580 – 20.70	\$7.50	0.370 – 32.40	\$7.00
0.580 – 20.70	\$7.50	0.350 – 34.30	\$8.00
0.510 – 23.50	\$10.00	0.460 – 26.10	
0.510 – 23.50	\$10.00	0.400 – 30.00	\$3.00
0.510 – 23.50	\$10.00	0.380 – 31.60	\$4.00
0.510 – 23.50	\$10.00	0.360 – 33.30	\$5.00
0.510 – 23.50	\$10.00	0.330 – 36.40	\$6.50
0.510 – 23.50	\$10.00	0.310 – 38.70	\$7.50
Centrifugal Type Chiller			
0.580 – 20.70	\$2.50	0.470 – 25.50	
0.580 – 20.70	\$2.50	0.440 – 27.30	\$1.50
0.580 – 20.70	\$2.50	0.410 – 29.30	\$3.00
0.580 – 20.70	\$2.50	0.350 – 34.30	\$6.00
0.520 – 23.10	\$7.50	0.490 – 24.50	
0.520 – 23.10	\$7.50	0.420 – 28.60	\$3.50
0.520 – 23.10	\$7.50	0.390 – 30.80	\$5.00
0.520 – 23.10	\$7.50	0.370 – 32.40	\$6.00
0.520 – 23.10	\$7.50	0.310 – 38.70	\$9.00
0.460 – 26.10	\$10.00	0.440 – 27.30	
0.460 – 26.10	\$10.00	0.370 – 32.40	\$3.50
0.460 – 26.10	\$10.00	0.350 – 34.30	\$4.50
0.460 – 26.10	\$10.00	0.330 – 36.40	\$5.50
0.460 – 26.10	\$10.00	0.280 – 42.90	\$8.00

*AHRI Standard 550/590

2003 Standard for Performance Rating of Water-Chilling Packages using the vapor compression cycle.

Thermal Storage Incentives	
	Incentive
THERMAL STORAGE UNIT	\$95/kW shifted

Program Requirements

Equipment Eligibility

- Duke Energy will use the AHRI database for verifying equipment efficiencies for all the chillers. If the equipment or matched set is not in the AHRI database, the manufacturer's technical fact sheets must be provided showing the efficiency level tested under AHRI conditions as described in AHRI standard 550/590. Equipment capacity (size) and efficiency must be based on AHRI design conditions. Full load efficiency rating (FL) and Integrated Part load Value (IPLV) must be provided for all chillers.
- Incentives for chillers will be paid based on the AHRI tons per unit.
- EER/COP and IPLV values shall include all connected loads, such as compressors, condenser fans, and control kW. Chiller components, such as motors and VFDs, are incented as part of the chiller package and are not independently eligible for prescriptive incentives during a chiller replacement
- Chiller incentives are only available for HVAC space cooling applications. All equipment installed must serve as a primary source of cooling for the facility. Industrial process cooling may qualify for a custom incentive.
- Chillers purchased and installed for backup or redundant systems are not eligible.
- Thermal Storage Units with a >1MW load shift are not eligible for incentives under the Prescriptive Program but can be considered for custom incentives.
- All equipment must be new to be eligible for incentives. Used equipment is **not** eligible for incentives.

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and its affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties), and is not liable for any damage caused by the installation of the equipment nor for any damage caused by the malfunction of the installed equipment.

Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application. (Page 7)
3. Purchase and install eligible energy-efficient equipment.
4. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to **assign payment of the incentive directly to the vendor**, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
5. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
6. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-629-5572.
7. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.



Evergreen Chiller Performance Outputs

Project Name: KLH - Geller VA Chillers
Sales Office: CAC Distributing

12/5/08
02:22 PM

Tag Name: CH-1 NPLV

Chiller
Chiller Model 19XRV6566465LEH64
Starter / VFD VFD - Unit Mounted
Refrigerant Type R-134a
Cooler
Size 65
Waterbox Type Nozzle-In-Head, 150 psi
Passes 2
Tubing Super E2 (SUPE2), .025 in, Copper
Fluid Type Fresh Water
Fouling Factor (hr-sqft-F)/BTU 0.00010
Compressor
Size 465
Flow Controls
Float Valve Size 8
Flare Orifice 30

Weights
Total Rigging Weight 24132 lb
Total Operating Weight 27415 lb
Refrigerant Weight 1530 lb
Condenser
Size 66
Waterbox Type Nozzle-In-Head, 150 psi
Passes 2
Tubing Spike Fin III (SPK3), .025 in, Copper
Fluid Type Fresh Water
Fouling Factor (hr-sqft-F)/BTU 0.00025
Motor
Size LEH
Line Voltage/Hertz 460-3-60

Output Type	Full Load	Part Load	Part Load	Part Load
Percent Load	100.00	75.00	50.00	25.00
Chiller Capacity	750 Tons	563 Tons	375 Tons	188 Tons
Chiller Input kW	422 kW	236 kW	115 kW	76 kW
Chiller Input Power	0.562 kW/Ton	0.420 kW/Ton	0.308 kW/Ton	0.406 kW/Ton
IPLV	0.360 kW/Ton	N/A	N/A	N/A
Cooler				
Entering Temp.	53.97 F	51.48 F	48.99 F	46.49 F
Leaving Temp.	44.00 F	44.00 F	44.00 F	44.00 F
Flow Rate	1800.0 gpm	1800.0 gpm	1800.0 gpm	1800.0 gpm
Pressure Drop	23.2 ft wg	23.3 ft wg	23.4 ft wg	23.5 ft wg
Condenser				
Leaving Temp.	94.27 F	81.71 F	69.33 F	67.22 F
Entering Temp.	85.00 F	75.00 F	65.00 F	65.00 F
Flow Rate	2250.0 gpm	2250.0 gpm	2250.0 gpm	2250.0 gpm
Pressure Drop	21.9 ft wg	22.5 ft wg	23.1 ft wg	23.1 ft wg
Motor				
Motor Rated Load Amps	642	429	280	217
Chiller Rated Line Amps	584	346	192	139
Chiller Inrush Amps	584			
Max Fuse/CB Amps	900			
Min Circuit Ampacity	730			

Messages:

- (1) Certified in accordance with the ARI Water-Chilling Packages using the Vapor Compression Cycle Certification Program, which is based on ARI Standard 550/590-2008.

HABEGGER

THE HABEGGER CORPORATION
11413 ENTERPRISE PARK DRIVE
CINCINNATI, OHIO 45241
PH: (513) 612-4700 FAX: (513) 612-4701

REPRINT 2/25/09
745B43-02 N

SHIP
TO

**** DO NOT MAIL INVOICE ** GIVE TO
TINA DAVIS FOR MANUAL BILLING !!**

BILL
TO

FEILER COMPANY
6561 GLENWAY AVENUE
CINCINNATI, OH 45211

Subcontractor to Shrode & Zimmerman

2/04/09	2/04/09	745B4302
24200-VA	VA MEDICAL - 18669	
MACKAY	62	051081
Customer		

PAGE 1

PLEASE REMIT TO:
THE HABEGGER CORPORATION
P.O. BOX 23128
CINCINNATI, OH 45223-0128

QTY	UNIT	ITEM NUMBER	DESCRIPTION	PRICE	UNIT PRICE	AMOUNT
1	1	0	SUPERVISION SUBMITALS, MANUALS, JOBSITE, MISC	D	EA	
3	3	0	19XRV4566463LEH64-- EVERGREEN 750 TON CHILLER	D	EA	
<p>** DO NOT MAIL INVOICE - PLEASE GIVE TO TINA DAVIS FOR MANUAL BILLING !!</p>						

TERMS: 1% 10TH PROX NET 11TH, 1 1/2% PER MONTH SERVICE CHARGE ON ALL PAST DUE AMOUNTS (18% ANNUAL RATE)

IF PAYMENT IS MADE WITHIN
OUR TERMS YOU MAY
DEDUCT

\$15.00 MINIMUM BILLING
10% RESTOCKING CHARGE ON RETURNS
20% ON SPECIAL ORDERS.

TAX

PLEASE PAY
THIS AMOUNT

\$ 413,007.00

SCHRUDDER & ZIMMERMAN, INC.**GENERAL CONTRACTOR**

1671 Park Road, Suite #11
Fort Wright, Kentucky 41011

Telephone #: 859-331-3160
Fax #: 859-331-8261

DATE: February 26, 2009
TO: Financial Service Center
ATTN: Prompt Payment
RE: Install New Chillers
539-C-80528 / VA250-C-0242

NUMBER OF PAGES BEING FAXED INCLUDING THIS PAGE: 5

MESSAGE:

Very Truly Yours,

Paula Carroll
Schrudde & Zimmerman, Inc.

Line 16 on page 3
shows payment of
chillers.

AIA Document G702™ - 1992

Application and Certificate for Payment

TO OWNER: Department of Veterans Affairs 3200 Vine Street Cincinnati, Ohio 45220	PROJECT: Install New Chillers 539-C-80528 VA-250-C-0242	APPLICATION NO: Four (4) PERIOD TO: 26-Feb-09 CONTRACT FOR: General Construction CONTRACT DATE: PROJECT NOS: VA-250-C-0242	Distribution to: OWNER <input type="checkbox"/> ARCHITECT <input type="checkbox"/> CONTRACTOR <input type="checkbox"/> FIELD <input type="checkbox"/> OTHER <input type="checkbox"/>
FROM CONTRACTOR: Schrudde & Zimmerman, Inc. 1671 Park Road, Suite #11 Ft. Wright, KY 41011			

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$ 3,579,932.00
2. Net change by Change Orders	\$ 0.00
3. CONTRACT SUM TO DATE (Line 1 ± 2)	\$ 3,579,932.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$ 2,329,483.00
5. RETAINAGE:	
a. % of Completed Work (Column D + E on G703)	\$ 0.00
b. % of Stored Material (Column F on G703)	\$ 0.00
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$ 0.00
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$ 2,329,483.00
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$ 601,187.00
8. CURRENT PAYMENT DUE	\$ 1,728,296.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$ 1,250,449.00

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$	\$
Total approved this Month	\$	\$
TOTALS	\$	\$
NET CHANGES by Change Order	\$	0.00

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

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The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Schrudde & Zimmerman, Inc.
By: Mark N. Zimmerman **Date:** 2-27-09
State of: Kentucky
County of: Kenton
 Subscribed and sworn to before Paula B. Carroll
 me this 26 day of February 2009
Notary Public: Paula B. Carroll
 My Commission expires: 5-27-09



ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$
 (Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:
By: _____ **Date:** _____
 This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

**CONTRACTOR CERTIFICATION
PROMPT PAYMENT**

Project Name Install New Chillers

Location VA Hospital - Cincinnati, Ohio

Contract No: VA250-C-0242

I hereby certify, to the best of my knowledge and belief, that -

- (1) The amounts requested are only for performance in accordance with the Specifications, terms and conditions of the contract;
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontractor agreements and the requirements of Chapter 39 of Title 31, United States Code; and
- (3) This request for progress payments does not include any amount which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

Schrudde & Zimmerman, Inc.
(Contractor Name)

Mark N. Zimmerman
(Typed Name and Signature)
(Individual Authorized By Above Firm To Make Certification)

Vice President
(Title)

2.27.09
(Date)

Mercantile Self Direct Incentive Program Requirements for Vendor Participation

Program Overview

- Duke Energy offers its eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.
- Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by faxing the Vendor Participation Agreement (VPA) to 513-629-5572 or emailing to SelfDirect@duke-energy.com.
- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies – only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in its sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.

Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.

- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call 1-866.380.9580 or visit www.duke-energy.com.

MERCANTILE SELF DIRECT Ohio Premium Motor/Pump/VFD Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-629-5572.

Is this application: ☒ **NEW** (original) or ☐ **REVISED** (changes made to original application)

Building Type – Required (check one)

<input type="checkbox"/> Data Centers	<input type="checkbox"/> Full Service Restaurant	<input type="checkbox"/> Office
<input type="checkbox"/> Education/K-12	<input checked="" type="checkbox"/> Healthcare	<input type="checkbox"/> Public Assembly
<input type="checkbox"/> Education Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Order/Safety
<input type="checkbox"/> Elder Care/Nursing Home	<input type="checkbox"/> Lodging	<input type="checkbox"/> Religious Worship/Church
<input type="checkbox"/> Food Sales/Grocery	<input type="checkbox"/> Retail (Small Box)	<input type="checkbox"/> Service
<input type="checkbox"/> Fast Food Restaurant	<input type="checkbox"/> Retail (Big Box)	<input type="checkbox"/> Warehouse
<input type="checkbox"/> Other:		

How did you hear about the program? (check one)

<input type="checkbox"/> Duke Energy Representative	<input type="checkbox"/> Web Site	<input type="checkbox"/> Radio
<input type="checkbox"/> Contractor / Vendor	<input type="checkbox"/> Other	

Please check each box to indicate completion of the following program requirements:

<input checked="" type="checkbox"/> All sections of application	<input checked="" type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer	<input checked="" type="checkbox"/> Tax ID number for payee	<input type="checkbox"/> Customer/vendor agree to Terms and Conditions
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Customer Information

Customer/Business	Department of Veterans Affairs	Contact	Kevin Henderson
Phone	513 487-6698	Account Number	9180-0750-01-1
Street Address (Where incentive should be mailed)	3200 Vine St		
City	Cincinnati	State	OH Zip Code 45220
Installation Street Address	3200 Vine St		
City	Cincinnati	State	OH Zip Code 45220
E-mail Address			

*Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.

Vendor Information

Vendor	Shrudde & Zimmerman	Contact	Mark Zimmerman
Phone	859-331-3160	Fax	859 331-8261
Street Address	1671 Park Rd Ste. #11		
City	Fort Wright	State	KY Zip Code 41011
E-mail Address	mnz@shrudde-zimmerman.com		

If Duke Energy has questions about this application, who should we contact?

☒ Customer ☐ Vendor

Payment Information

Who should receive incentive payment?	<input checked="" type="checkbox"/> Customer	<input type="checkbox"/> Vendor (Customer must sign below)
I hereby authorize payment of incentive directly to the vendor:	Customer Signature (written signature)	
	Date	12/15/2012
Provide Tax ID Number for Payee	Customer Tax ID #	310542398
	Vendor Tax ID #	

Terms and Conditions

I have read and hereby agree to the Terms & Conditions and Program Requirements.

Customer Signature	<i>Kevin Henderson</i>	Vendor Signature	
Date	12/15/2012	Date	
Title	Energy Manager	Title	

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.

Motor incentives will be removed from the Prescriptive Program effective March 31, 2011. To qualify for the current incentives, motors must be purchased by March 31, 2011 and installed by June 30, 2011. Applications must be received by September 30, 2011.

Certain motors will still be eligible for incentives using the custom program. Please refer to the Duke Energy Mercantile Self Direct website for further detail.

The Equipment below is (check one): ☐ New Equipment / New Construction
Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

Motor											
Motor	Make/Model or Catalog #	Quantity	Type	RPM	Incentive	HP	Installed Nominal Efficiency*	Annual Operating Hrs (Minimum of 2000)	Equipment Cost	Date Installed and Operable (mm/yy)	Total Incentive
1-5 HP			<input type="checkbox"/> OPEN <input type="checkbox"/> TEFC	<input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600	\$5/HP	HP	%	Hrs			
7.5-20 HP			<input type="checkbox"/> OPEN <input type="checkbox"/> TEFC	<input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600	\$4/HP	HP	%	Hrs			
25-100 HP			<input type="checkbox"/> OPEN <input type="checkbox"/> TEFC	<input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600	\$2.50/HP	HP	%	Hrs			
125 - 250 HP			<input type="checkbox"/> OPEN <input type="checkbox"/> TEFC	<input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600	\$2/HP	HP	%	Hrs			

* See page four for required efficiency levels for motors.

*Incentive capped at 50% of project cost (equipment and external labor).

- Qualifying motors must be three-phase open drip (ODP) or totally enclosed fan cooled (TEFC) units with nominal speeds of 1200, 1800, or 3600 RPM.
- Efficiencies are to be full-load nominal efficiencies tested in accordance with IEE Standards 112, Method B. Please refer to attached table to determine qualifying efficiencies.
- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Motor shall be squirrel cage design and conform to NEMA Premium design A, B or C torque characteristics.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Replaced motors shall be disposed of or recycled (not to be resold or rewound).
- Motor(s) and pump(s) must operate a minimum of 2000 hours annually to be eligible.

The Equipment below is (check one): ☐ New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

High Efficiency Pumps								
Pump	Make/Model or Catalog #	Quantity	Incentive	Installed Nominal Efficiency* (pump curve)	Annual Operating Hrs (Minimum of 2000)	Equipment Cost	Date Installed and Operable (mm/yy)	Total Incentive
1.5 HP			\$61.00/PUMP	%	Hrs			
2 HP			\$87.50.00/PUMP	%	Hrs			
3 HP			\$87.50/PUMP	%	Hrs			
5 HP			\$85.00./PUMP	%	Hrs			
7.5 HP			\$124.50/PUMP	%	Hrs			
10 HP			\$82.50.00/PUMP	%	Hrs			
15 HP			\$145.00/PUMP	%	Hrs			
20 HP			\$200.00/PUMP	%	Hrs			

* See on page four for required efficiency levels for pumps. Pump curves are required.

*Incentive capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Pump efficiency is based on the design point on the pump curve. Documentation of the pump curve is required to receive an incentive.
- The pump efficiency at the design point on the pump curve must meet nominal efficiencies as stated in table on page 4.
- Duplicative to the first bullet point.

The Equipment below is (check one): ☐ Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

**Variable Frequency Drives (VFDs) – For Process Fluid Pumping Only
 (Retrofit* Application only)**

Process pumping does not include HVAC or swimming pool fluid pumping systems.

List Process Pumping Application

VFD**	Make/Model or Catalog #	Quantity	Incentive***	Annual Operating Hrs (Minimum of 2000)	Project Cost	Date Installed and Operable (mm/yy)	Total Incentive
5 HP			\$20.00/HP	Hrs			
7.5 HP			\$20.00/HP	Hrs			
10 HP			\$20.00/HP	Hrs			
15 HP			\$20.00/HP	Hrs			
20 HP			\$20.00/HP	Hrs			
25 HP			\$20.00/HP	Hrs			
30 HP			\$20.00/HP	Hrs			
40 HP			\$20.00/HP	Hrs			
50 HP			\$20.00/HP	Hrs			

*Retrofit only – incentives are only available for new VFDs installed on existing fluid process pump systems.

** VFDs over 50 HP and VFDs on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program. Please refer to the custom webpage for guidance.

***Incentives are capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- Duplicative to the first bullet point.

The Equipment below is (check one): ☐ Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

**Variable Frequency Drives (VFDs) – Applied to HVAC Fans Only
 (Retrofit* Application only)**

VFD HVAC Applications (please check one):

☐ Supply Fan ☒ Cooling Tower Fan ☐ Return Fan
☐ Exhaust Fan

VFD**	Make/Model or Catalog #	Quantity	Incentive***	Annual Operating Hrs (Minimum of 2000)	Project Cost	Date Installed and Operable (mm/yy)	Total Incentive
1.5 HP			\$50.00/HP	Hrs			
2 HP			\$50.00/HP	Hrs			
3 HP			\$50.00/HP	Hrs			
5 HP			\$50.00/HP	Hrs			
7.5 HP			\$50.00/HP	Hrs			
10 HP			\$50.00/HP	Hrs			
15 HP			\$50.00/HP	Hrs			
20 HP			\$50.00/HP	Hrs			
25 HP	Yasakawa E7LV-B034CGX	2	\$50.00/HP	6000Hrs	\$45,600.00	09/12	\$2,500.00
30 HP			\$50.00/HP	Hrs			
40 HP			\$50.00/HP	Hrs			
50 HP			\$50.00/HP	Hrs			

* Retrofit only – incentives are only available for new VFDs installed on existing HVAC fan systems.

**VFDs over 50 HP and VFD's on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program.

***Incentives are capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- Duplicative to the first bullet point.

The Equipment below is (check one): ☐ Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

**Variable Frequency Drives (VFDs) – Applied to HVAC Pumps Only
 (Retrofit* Application only)**

VFD HVAC Applications (please check one):

☒ Chilled Water Pump

☐ Condenser Pump

☐ Hot Water Pump

VFD**	Make/Model or Catalog #	Quantity	Incentive***	Annual Operating Hrs (Minimum of 2000)	Project Cost	Date Installed and Operable (mm/yy)	Total Incentive
1.5 HP			\$50.00/HP	Hrs			
2 HP			\$50.00/HP	Hrs			
3 HP			\$50.00/HP	Hrs			
5 HP			\$50.00/HP	Hrs			
7.5 HP			\$50.00/HP	Hrs			
10 HP			\$50.00/HP	Hrs			
15 HP			\$50.00/HP	Hrs			
20 HP			\$50.00/HP	Hrs			
25 HP			\$50.00/HP	Hrs			
30 HP			\$50.00/HP	Hrs			
40 HP			\$50.00/HP	Hrs			
50 HP	Yasakawa E7LVB065C6	4	\$50.00/HP	8760Hrs	\$45,600.00	08/12	\$10,000.00

* Retrofit only – incentives are only available for new VFDs installed on existing HVAC pumps systems.

**VFDs over 50 HP and VFDs on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program. Please refer to the custom webpage for guidance.

***Incentives are capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- Duplicative to the first bullet point.

Efficiencies for Premium Motor/Pump Measures

Nominal Efficiencies for "NEMA Premium" Induction Motors Rated 600 volts or less (random wound)						
	Open Drip Proof			Totally Enclosed Fan-Cooled		
HP	1200 RPM	1800 RPM	3600 RPM	1200 RPM	1800 RPM	3600 RPM
1	82.5	85.5	77.0	82.5	85.5	77.0
1.5	86.5	86.5	84.0	87.5	86.5	84.0
2	87.5	86.5	85.5	88.5	86.5	85.5
3	88.5	89.5	85.5	89.5	89.5	86.5
5	89.5	89.5	86.5	89.5	89.5	88.5
7.5	90.2	91.0	88.5	91.0	91.7	89.5
10	91.7	91.7	89.5	91.0	91.7	90.2
15	91.7	93.0	90.2	91.7	92.4	91.0
20	92.4	93.0	91.0	91.7	93.0	91.0
25	93.0	93.6	91.7	93.0	93.6	91.7
30	93.6	94.1	91.7	93.0	93.6	91.7
40	94.1	94.1	92.4	94.1	94.1	92.4
50	94.1	94.5	93.0	94.1	94.5	93.0
60	94.5	95.0	93.6	94.5	95.0	93.6
75	94.5	95.0	93.6	94.5	95.4	93.6
100	95.0	95.4	93.6	95.0	95.4	94.1
125	95.0	95.4	94.1	95.0	95.4	95.0
150	95.4	95.8	94.1	95.8	95.8	95.0
200	95.4	95.8	95.0	95.8	96.2	95.4
250	95.4	95.8	95.0	95.8	96.2	95.8

Nominal Efficiencies for Pumps	
HP	Efficiency
1.5	efficiency of 65% or more for system
2	efficiency of 65% or more for system
3	efficiency of 67% or more for system
5	efficiency of 70% or more for system
7.5	efficiency of 73% or more for system
10	efficiency of 75% or more for system
15	efficiency of 77% or more for system
20	efficiency of 77% or more for system

Program Requirements

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and its affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties and is not liable for any damage caused by the installation of the equipment nor for any damage caused by the malfunction of the installed equipment.

Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application. (Page8)
3. Purchase and install eligible energy-efficient equipment.
4. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to **assign payment of the incentive directly to the vendor**, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
5. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
6. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-629-5572.
7. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

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 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
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- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
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For more information, call 1-866.380.9580 or visit www.duke-energy.com.

Invoice 11020801

Customer GEI01

Stoermer-Anderson, Inc.

3818 Red Bank Road

Cincinnati, OH 45227

Telephone: 513/527-2300

REMIT TO:

Stoermer-Anderson, Inc.

P.O. Box 706135

Cincinnati, OH 45270-6135

Bill To:

The Geiler Company

P O Box 11324

Cincinnati, OH 45211-0324

Ship To:

The Geiler Company

6561 Glenway Avenue

Cincinnati, OH 45211

Date		Ship Via		F.O.B.		Terms		Territory	
02/23/09		Pick Up		Factory		Net 30 Days			
Purchase Order Number			Job Description		Order Date	Salesperson		Our Order Number	
24201			Cincinnati VA Chillers		01/25/09	LH		11020801	
Quantity			Item Number	Description	Loc	Tax	Unit Price	Amount	
Req	Ship	S.O.							
2	2	0	YEAE7LV-B034CG	Variable Frequency Drive	100	N	0.00	0.00	
4	4	0	YEAE7LV-B065CG	Variable Frequency Drive	100	N	0.00	0.00	
2	2	0	YEAE7BV-B240T	Variable Frequency Drive	100	N	0.00	0.00	
1	1	0	YEAEPRIE	Price on Above	100	N	45600.00	45600.00	

RECEIVED
STOERMER-ANDERSON, INC.
CINCINNATI, OH

H08073-42
O 42 42 EQ
VA Hospital
Tax Exempt

AS

Net 30 Days-1-12/% Service Charge on all
Accounts Past 30 Days of Billing

NonTaxable Subtotal

45600.00

Taxable Subtotal

0.00

Tax (5.500%)

0.00

Total Invoice

45600.00

Customer Original

Page 1

**VA Medical Center
YASKAWA VARIABLE SPEED DRIVES**

TAG #	MODEL #	HP	MAXIMUM AMPS	DRIVE/MOTOR VOLTAGE
PT-1	E7BV-B240T	200	240	460/3
PT-2	E7BV-B240T	200	240	460/3
PE-1	E7LV-B065CG	50	65	460/3
PE-2	E7LV-B065CG	50	65	460/3
PE-3	E7LV-B065CG	50	65	460/3
PE-4	E7LV-B065CG	50	65	460/3
CT	E7LV-B034CGX	25	34	460/3
CT	E7LV-B034CGX	25	34	460/3

Performance Features

- Overload capacity: 110% for 60 sec (150% peak)
- Starting torque: 100% at 3 Hz
- DC injection braking: at start or stop, adjustable, current limited (anti-windmilling)
- Motor preheat function
- Adjustable accel/decel: 0.1 to 6000 sec.
- Controlled speed range: 40:1
- Critical frequency rejection: 3 selectable, adjustable bands
- Torque limiting: 30-180%
- Energy saving control
- Torque boost: full range, auto
- Power loss ride-thru: 2 sec
- Inertia ride-thru
- Auto restart after power loss or resettable fault, selectable, programmable
- Feedback signal loss detection
- Serial communications loss detection
- "Up/Down" floating point control capability
- Stationary motor auto-tuning
- Customizable monitor display
- Sleep function
- Run permissive input
- Ramp-to-stop or coast-to-stop selection
- Runtime changes in control and display
- Project-specific parameter reinitialization

Protective Features

- Current limited stall prevention
- Heat sink over-temperature, speed fold-back
- Cooling fan operating hours recorded
- Bi-directional start into rotating motor at synchronized speed
- DC bus charge indicator
- Current limiting DC bus fuse
- Optically-Isolated controls
- Short circuit protection: Phase-phase and phase-neutral
- Ground fault protection
- Short circuit withstand rating: 65K RMS, 100K RMS with bus reactor
- Electronic motor overload: UL
- Current and torque limit
- Fault display: last 10 faults
- Fault circuit: OC, OV, OT
- Over torque and under torque protection
- Program security code
- "Hunting" prevention logic
- Reverse prohibit selectability

Schrudde & Zimmerman, Inc.

AIA Document G702™ - 1992

Application and Certificate for Payment

TO OWNER: Department of Veterans Affairs
3200 Vine Street
Cincinnati, Ohio 45220

PROJECT: Install New Chilers
639-C-80528
VA-250-C-0242

FROM CONTRACTOR: Schröder & Zimmerman, Inc.
1871 Park Road, Suite #11
Ft. Wright, KY 41011

VIA ARCHITECT:

APPLICATION NO: Ten (10)
PERIOD TO: 30-Sep-10
CONTRACT FOR: General Construction
CONTRACT DATE:
PROJECT NOS: VA-250-C-0242

Distribution to:
OWNER ☒
ARCHITECT ☐
CONTRACTOR ☐
FIELD ☐
OTHER ☐

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract AIA Document G703™, Continuation Sheet, is attached.

1. ORIGINAL CONTRACT SUM \$ 3,579,932.00

2. NET CHANGE BY CHANGE ORDERS \$ 99,791.00

3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 3,679,723.00

4. TOTAL COMPLETED & STORED TO DATE (Column E on G703) \$ 3,668,387.00

5. RETAINAGE:

a. 0% of Completed Work (Column G + B on G703) \$ 0.00

b. 0% of Stored Material (Column F on G703) \$ 0.00

Total Retainage (Lines 5a + 5b, or Total in Column I of G703) \$ 0.00

6. TOTAL EARNED LESS RETAINAGE (Line 4 minus Line 5 Total) \$ 3,668,387.00

7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ 3,558,670.00

8. CURRENT PAYMENT DUE \$ 109,717.00

9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 8 minus Line 6) \$ 11,336.00

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$	\$
Total approved this month	\$	\$
TOTAL	\$	\$
NET CHANGES by Change Order	\$	\$ 99,791.00

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED: An original assures that changes will not be obscured.

AIA Document G702™ - 1992. Copyright © 1993, 1993, 1995, 1971, 1976, 1983 and 1992 by The American Institute of Architects. All rights reserved. **WARNING:** This AIA® Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA® Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law. Purchasers are permitted to reproduce ten (10) copies of this document when completed. To report copyright violations of AIA Contract Documents, e-mail The American Institute of Architects' legal counsel, copyright@aia.org.

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Schröder & Zimmerman, Inc.

By: Paula B. Carver Date: 10.9.10

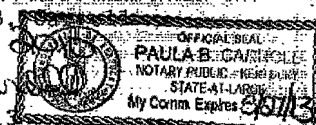
State of: Kentucky

County of: Kenton

Subscribed and sworn to before me this 8th day of October, 2010.

Notary Public:

My commission expires: May 27, 2013



ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

**CONTRACTOR CERTIFICATION
PROMPT PAYMENT**Project Name Install New ChillersLocation VA Hospital - Cincinnati, OhioContract No: VA250-C-0242

I hereby certify, to the best of my knowledge and belief, that -

- (1) The amounts requested are only for performance in accordance with the Specifications, terms and conditions of the contract;
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontractor agreements and the requirements of Chapter 39 of Title 31, United States Code; and
- (3) This request for progress payments does not include any amount which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

Schrudde & Zimmerman, Inc.

(Contractor Name)

Mark N. Zimmerman

(Typed Name and Signature)

(Individual Authorized By Above Firm To Make Certification)

Vice President

(Title)

10.8.10

(Date)

Project: VA / Install New Chillers - 539-C-80528 / VA-250-C-0242								
8A	8B	8C	8D	8E	8F		8G	8H
ITEM								
NO.	DESCRIPTION	Total Value	Value in Place	Materials Stored Off Site	Value in current period	Total Value to Date	Percent Complete	Balance Remaining
1	General Conditions Labor	51,975.00	51,975.00	0.00	0.00	51,975.00	100%	\$0.00
2	General Conditions Material	126,505.00	126,505.00	0.00	0.00	126,505.00	100%	\$0.00
3	MEP Fees	153,714.00	153,714.00	0.00	0.00	153,714.00	100%	\$0.00
4	Structural Fees	27,143.00	27,143.00	0.00	0.00	27,143.00	100%	\$0.00
5	Seismic Allowance	38,000.00	38,000.00	0.00	0.00	38,000.00	100%	\$0.00
6	Abatement Test Allowance	10,000.00	1,562.00	0.00	8,438.00	10,000.00	100%	\$0.00
7	Commissioning Allowance	20,000.00	13,833.00	0.00	6,167.00	20,000.00	100%	\$0.00
8	Carpentry/Demo/Concrete Labor	47,431.00	47,431.00	0.00	0.00	47,431.00	100%	\$0.00
9	Carpentry/Demo/Concrete Material	38,806.00	38,806.00	0.00	0.00	38,806.00	100%	\$0.00
10	Structural Steel Labor	2,183.00	2,183.00	0.00	0.00	2,183.00	100%	\$0.00
11	Structural Steel Material	4,054.00	4,054.00	0.00	0.00	4,054.00	100%	\$0.00
12	Roofing Labor	6,791.00	6,791.00	0.00	0.00	6,791.00	100%	\$0.00
13	Roofing Material	12,613.00	12,613.00	0.00	0.00	12,613.00	100%	\$0.00
14	Painting Labor	6,727.00	6,727.00	0.00	0.00	6,727.00	100%	\$0.00
15	Painting Material	3,621.00	3,621.00	0.00	0.00	3,621.00	100%	\$0.00
16	Chillers Equipment	585,578.00	585,578.00	0.00	0.00	585,578.00	100%	\$0.00
17	Chillers Labor	53,130.00	53,130.00	0.00	0.00	53,130.00	100%	\$0.00
18	Pumps-Equipment	144,375.00	144,375.00	0.00	0.00	144,375.00	100%	\$0.00
19	Pumps Labor	52,091.00	52,091.00	0.00	0.00	52,091.00	100%	\$0.00
20	VFD's Equipment	74,036.00	74,036.00	0.00	0.00	74,036.00	100%	\$0.00
21	VFD's Labor	17,614.00	17,614.00	0.00	0.00	17,614.00	100%	\$0.00
22	Water Specialties Material	63,525.00	63,525.00	0.00	0.00	63,525.00	100%	\$0.00
23	Water Specialties Labor	17,325.00	17,325.00	0.00	0.00	17,325.00	100%	\$0.00
24	Piping Materials	479,325.00	479,325.00	0.00	0.00	479,325.00	100%	\$0.00
25	Piping Labor	600,600.00	600,600.00	0.00	0.00	600,600.00	100%	\$0.00
26	Controls	300,300.00	300,300.00	0.00	0.00	300,300.00	100%	\$0.00
27	Insulation	143,798.00	143,798.00	0.00	0.00	143,798.00	100%	\$0.00
28	Rigging	8,663.00	8,663.00	0.00	0.00	8,663.00	100%	\$0.00
29	Misc. Subs	36,094.00	36,094.00	0.00	0.00	36,094.00	100%	\$0.00
30	Rentals	9,240.00	9,240.00	0.00	0.00	9,240.00	100%	\$0.00
31	Mobilization	34,650.00	34,650.00	0.00	0.00	34,650.00	100%	\$0.00
32	Electric Mobilization Labor	3,465.00	3,465.00	0.00	0.00	3,465.00	100%	\$0.00
33	Electric Mobilization Material	2,310.00	2,310.00	0.00	0.00	2,310.00	100%	\$0.00
34	Demo Labor	17,325.00	17,325.00	0.00	0.00	17,325.00	100%	\$0.00
35	Demo Material	11,550.00	11,550.00	0.00	0.00	11,550.00	100%	\$0.00
36	High Voltage Transformer Labor	2,310.00	2,310.00	0.00	0.00	2,310.00	100%	\$0.00
37	High Voltage Transformer Material	20,790.00	20,790.00	0.00	0.00	20,790.00	100%	\$0.00
	TOTAL	3,227,657.00	3,213,052.00	0.00	14,605.00	3,227,657.00	100%	\$0.00
Contractor hereby certifies that information provided herein is a true and accurate detailed breakdown for the work.					Approved:			
Contractor		Date		Associate		Date		

[illegible]



VA
HEALTH
CARE

Defining
EXCELLENCE
in the 21st Century

Department of Veterans Affairs Medical Center

3200 Vine Street
Cincinnati, Ohio 45220-2251

In Reply Refer To: 539/138

DATE: Feb 27, 2012

RE: Cincinnati V.A. Medical Center Confirmation Cost Information for Variable Frequency Drives and Chillers For MSD Prescriptive Rebate Application

To Whom It May Concern:

This letter is to confirm that for the Cincinnati VAMC Chiller Plant work back in 2009 for the MSD Prescriptive rebate application, the individual material costs for each Variable Frequency drive were obtained from the supplier, Stoermer Anderson, and are listed below. Installation costs were shown in the original MSD application.

Description/Model#	Quantity	Price/Fixture	Total Amount
E7BVB240T	2	\$18,885	\$37,770.00
E7LVB065CG	4	\$5,045	\$20,180.00
E7LVB034CG	2	\$3,183	\$6,366.00
		TOTAL LIST COST:	\$64,316.00

In terms of the chillers, the original invoice from Habagger showed the cost of the three chillers at \$413,007 so the breakdown for material costs for the chillers would be as follows:

Description/Model#	Quantity	Price/Fixture	Total Amount
19XRV6566465LEH64	3	\$137,669.00	\$413,007.00
		TOTAL LIST COST:	\$413,007.00

Sincerely,

Terry Brothers
Chief of Engineering

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/11/2013 4:43:29 PM

in

Case No(s). 13-0887-EL-EEC

Summary: Application Application to Commit Energy

Efficiency/Peak Demand

Reduction Programs

(Mercantile Customers Only)- Veterans Administration, Veterans Hospital electronically filed by
Carys Cochern on behalf of Duke Energy