Ohio | Public Utilities Commission

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

Case No.: ____-____-EL-EEC

Mercantile Customer: **Ethicon Endo-Surgery**

Electric Utility: **Duke Energy**

Program Title or Description: **Cooling Tower VFD**

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: **Ethicon Endo Surgery**

Principal address: **4545 Creek Rd, Cincinnati Ohio 45242-2849**

Address of facility for which this energy efficiency program applies:

4545 Creek Rd, Cincinnati Ohio 45242-2849

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.)
  Please refer to Appendix A.
- □ 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):

August 2011.

□ 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: **26,516 kWh**
Refer to Appendix B for documentation.

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?

_____

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

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.

Ethicon Endo-Surgery experienced a cooling tower fan motor failure. The choice before the facility at that time was to repair the existing, failed motor and return to service or to purchase a new motor, suitable for VFD operation, and operate that motor via VFD. Because this customer had a clear choice to return the cooling tower to its original operation mode, as evidenced by the quote included in supporting documentation for this application, Duke Energy has offered a cash rebate and not a commitment payment to Ethicon Endo-Surgery.

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 **$525.00. Refer to Appendix C for documentation.**

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: **18.73** (Skip to Subsection 2.)

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

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

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The incremental measure costs were _____.

Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were **$13,272.**

The utility's program costs were **$184.**

The utility's incentive costs/rebate costs were **$525.**

Section 7: Additional Information

Please attach the following supporting documentation to this application:

Narrative description of the program including, but not limited to, make, model, and year of any installed and replaced equipment.

A copy of the formal declaration or agreement that commits the program or measure to the electric utility, including:

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

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

Ohio | Public Utilities Commission

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

Case No.: ____-____-EL-EEC

State of Ohio :

Robert E. Sakett, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

   Ethicon Endo-Surgery

   [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.

Robert E Sakett — Vice President, Franchise Ops

Signature of Affiant & Title

Sworn and subscribed before me this 13th day of December, 2011 Month/Year

Tina Gleberman — Tina Gleberman, Notary Public

Signature of official administering oath — Print Name and Title

My commission expires on TINA M. GLEBERMAN NOTARY PUBLIC - STATE OF OHIO Recorded in Warren County My commission expires Oct. 5, 2013

DUKE ENERGY CORPORATION
Mercantile Self Direct Program
139 East Fourth Street
Cincinnati, OH 45202
513 419 5572 fax

November 29, 2011

Mr. Gary Tout
Ethicon Endo-Surgery
4545 Creek Road
Cincinnati Ohio 45242-2839

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

Dear Mr. Tout:

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 $525.00 has been proposed for your motor project completed in the 2011 calendar year. 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 513-419-5572 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 $aver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

Grady Reid, Jr
Product Manager
Mercantile Self Direct Rebates

cc: Deanna Bowden, Duke Energy
Mr. Matt Lenz, Debra-Kuempel
Rob Jung, Wisconsin Energy (WECC)

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

☒ Rebate is accepted. ☐ Rebate is declined.

By accepting this rebate, Ethicon Endo-Surgery 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, Ethicon Endo-Surgery 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, Ethicon Endo-Surgery 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):

Robert E. Sackett 12-13-11

Customer Signature Printed Name Date

Proposed Rebate Amounts

Measure ID	Energy Conservation Measure (ECM)	Proposed Rebate Amount
ECM-1	Install 60 HP High Efficiency Motor with 60 HP VFD	$525.00
ECM-2		
ECM-3		
ECM-4		
ECM-5		
Total		$525.00

Appendix A -Billing History

34100782 01

ETHICON INC
4545 CREEK RD
CINCINNATI, OH 45242

Meter #106967809

Date	Days	Actual KWH
1/25/2012	34	390,427
12/22/2011	30	372,233
11/22/2011	29	428,402
10/24/2011	31	490,176
9/23/2011	30	570,226
8/24/2011	29	642,725
7/26/2011	32	709,894
6/24/2011	30	596,801
5/25/2011	29	478,488
4/26/2011	32	484,513
3/25/2011	29	419,391
2/24/2011	29	392,001
	Annual Total	**5,975,277**

Appendix B – Energy Savings Achieved

	Before Installation		Post Installation		Savings	
ECM	**As-Found Equipment**	**Total Annual kWh[1]**	**New Equipment**	**Total Annual kWh[1]**	**Energy Savings (kWh)**	**Demand Savings (kW)**
ECM1	60 HP Two-Speed Cooling Tower Fan Motor	42,870	VFD Added	17,913	24,957	0

Notes:

1. Energy consumption baseline and post project energy consumption were provided by the project vendor and allocated according to cooling degree days for avoided costs analysis as documented on the following pages.

Application of 7.43% line losses yields **26,516 kWh** savings at the plant. This value also reflects negligible rounding error resulting for the operating mode used to model this project in DSMore software.

UPDATE™ Version 4.14.6
Product Data: 5/24/2011 (Current)

6/17/2011 9:21:45 AM

Job Information
Cooling Tower VFD Saving
Ethicon
Cincinnnat, Ohio

Selected By
debra-kuempel
3976 southern ave
cincinnati
dbehne@debra-kuempel.com
david behne
Tel 5132716500

SPX Cooling Technologies Contact
Stoermer-Anderson, Inc.
3818 Red Bank Road
Cincinnati, Ohio 45227
lmh@stoermer-anderson.com
Tel 513-527-2300
Fax 513-527-2306

Cooling Tower Definition

Manufacturer	Marley	Fan Motor Speed	1800 rpm	Design Range	10.00 °F
Product	NC Steel	Fan Motor Output per cell	60.00 BHp	Design Wet-Bulb	78.00 °F
Model	NC8413VAN1	Fan Motor Efficiency	90.0 %	Cold Water Set Point	85.00 °F
Cells	1	Tower Water Flow	2747 gpm	Average Wet-Bulb	50.70 °F
Fan	11.00 ft, 6 Blades	Static Lift	22.96 ft	Range at Avg. Wet-Bulb	6.00 °F
Fans per cell	1	Pump Efficiency	70.0 %	Maximum Wet-Bulb	78.00 °F
Wet-Bulb Profile	Seasonal				

Interval Information					Single-Speed Fan			Two-Speed Fan				Variable-Speed Fan		Pump
Wet-Bulb Interval °F		Cold Water °F	Range °F	Hours	Hours Full	Hours Off	Energy kWh	Hours Full	Hours Half	Hours Off	Energy kWh	Total Fan Motor Output BHp	Energy kWh	Energy kWh
4.29	7.13	85.00	3.00	0.1	0.0	0.1	1.7	0.0	0.0	0.1	0.3	0.22	0.0	1.6
7.13	9.96	85.00	3.00	1.0	0.4	0.6	18.6	0.0	0.4	0.6	3.0	0.22	0.2	17.3
9.96	12.80	85.00	3.00	5.1	1.9	3.3	93.6	0.0	2.1	3.0	15.2	0.22	0.9	87.3
12.80	15.63	85.00	3.00	15.7	5.8	10.0	286.6	0.0	6.6	9.2	46.6	0.22	2.9	267.3
15.63	18.47	85.00	3.00	36.2	13.3	22.9	659.4	0.0	15.1	21.1	107.2	0.22	6.6	615.0
18.47	21.30	85.00	3.00	69.2	25.3	43.9	1260.0	0.0	28.8	40.4	204.8	0.22	12.6	1175.2
21.30	24.14	85.00	3.00	115.6	42.3	73.2	2104.2	0.0	48.2	67.4	342.0	0.22	21.1	1962.5
24.14	26.97	85.00	3.00	173.5	63.5	109.9	3158.2	0.0	72.3	101.2	513.3	0.22	31.7	2945.5
26.97	29.81	85.00	3.00	237.8	87.1	150.7	4330.0	0.0	99.1	138.7	703.8	0.22	43.4	4038.4
29.81	32.64	85.00	3.15	300.7	116.4	184.3	5785.3	0.0	132.4	168.3	940.3	0.24	60.5	5106.5
32.64	35.47	85.00	3.56	352.7	155.1	197.6	7711.9	0.0	176.5	176.3	1253.4	0.31	91.2	5990.2
35.47	38.31	85.00	3.98	385.6	186.9	198.6	9293.7	0.0	212.7	172.9	1510.5	0.39	124.3	6547.5
38.31	41.15	85.00	4.39	394.8	212.2	182.7	10548.4	0.0	241.4	153.4	1714.5	0.51	166.8	6705.2
41.15	43.98	85.00	4.81	383.0	224.0	159.0	11136.4	0.0	254.9	128.1	1810.0	0.66	210.9	6503.3
43.98	46.81	85.00	5.22	359.7	225.9	133.8	11231.8	0.0	257.0	102.7	1825.5	0.86	257.5	6109.1
46.81	49.65	85.00	5.64	340.5	227.3	113.2	11298.7	0.0	258.6	81.9	1836.4	1.12	317.2	5782.5
49.65	52.49	85.00	6.05	340.9	240.0	101.0	11929.4	0.0	273.0	67.9	1938.9	1.47	414.8	5789.3
52.49	55.32	85.00	6.47	369.9	272.9	96.9	13567.8	0.0	310.5	59.4	2205.2	1.93	591.8	6280.9
55.32	58.16	85.00	6.88	423.2	325.8	97.4	16198.0	0.0	370.7	52.5	2632.7	2.56	899.0	7186.3
58.16	60.99	85.00	7.30	481.4	385.3	96.1	19156.0	0.0	438.4	43.0	3113.5	3.45	1375.1	8174.6
60.99	63.83	85.00	7.72	514.3	426.8	87.5	21218.1	0.0	485.6	28.7	3448.7	4.71	2008.8	8734.3
63.83	66.66	85.00	8.13	493.0	423.2	69.8	21038.2	0.0	481.5	11.6	3419.4	6.59	2690.9	8372.4
66.66	69.50	85.00	8.55	404.6	358.7	46.0	17831.3	24.9	379.7	0.0	3936.0	9.37	3142.2	6871.6
69.50	72.33	85.00	8.96	264.4	241.7	22.7	12017.9	77.3	187.1	0.0	5171.4	13.45	2947.4	4489.8
72.33	75.17	85.00	9.38	116.2	109.5	6.7	5445.4	61.1	55.1	0.0	3428.6	20.42	1966.2	1973.4
75.17	78.00	85.00	9.79	18.7	18.2	0.5	906.1	14.5	4.3	0.0	749.0	34.02	528.5	318.4
	Totals			6598.0	4389.6	2208.4	218226.4	177.8	4792.0	1628.3	42870.2		17912.7	112045.3

42870.2 Currently
- 17912.7 CVPD
24957.5 Savings x $0.05/kW = $1247.86

DUKE ENERGY - NON-RESIDENTIAL CUSTOM PROGRAM
ENERGY SAVINGS CALCULATIONS - Monthly kw-hr Savings

Applicant: **Ethicon Endo-Surgery Inc - VFD**
ECM: **ECM-1 - Cooling Tower Fan VFD**

App No.: **11-206**
Rev.: **0**

CINCINNATI LUNKEN AP (331576)
DEGREE DAY NORMALS(Total)
Cooling Degree Days
Years: 1971-2000

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Total
Total	0	0	0	4	95	224	352	305	131	20	0	0		1131
Monthly Savings	**0**	**0**	**0**	**0.003537**	**0.083996**	**0.198055**	**0.311229**	**0.269673**	**0.115827**	**0.017683**	**0**	**0**		1
Weighting	0	0	0	17.57737	417.4624	984.3324	1546.808	1340.274	575.6587	87.88683	0	0	4970	

Baseline kWh per SPX Analysis = 42870 kWh

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	0	0	151.618	3600.928	8490.61	13342.39	11560.88	4965.491	758.0902	0	0	42870

Savings kWh per SPX Analysis = 24957 kWh

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	0	0	88.26525	2096.3	4942.854	7767.342	6730.225	2890.687	441.3263	0	0	24957

Smart $aver™
Nonresidential Custom Incentive Application

Before you complete this application, please note the following important criteria:

- Incentive approval is required PRIOR to equipment purchase, or any other activity which would indicate that the customer has already decided to proceed
- Submitting this application does not guarantee an incentive will be approved
- Incentives are based on electricity conservation only
- Electric demand and/or energy reductions must be well documented with auditable calculations
- Simple payback without incentive must be greater than 1 year
- Incentives are capped at 50% of the incremental project cost, which is the difference between purchasing standard and high-efficiency equipment
- Incentive payments are issued after installation is complete and documentation is submitted
- Incomplete applications will not be reviewed; all fields are required

Refer to the complete list of Instructions and Disclaimers, beginning on page 11.

Checklist

(To be submitted with the application) – **All Sections Required**

Item Number	Description	Included
1	Applicant and Customer Information Form (page 2)	☑
2	List of Sites (pages 3) (1) Site	☑
3	Description of Project(s) (pages 4, 5 & 6)	☑
5	Customer Consent form, signed by Customer (page 7)	☑
6	Project Questionnaire, signed by Customer (pages 8, 9 & 10)	☑
	Supporting Documentation, including equipment spec sheets, copies of vendor proposal(s) and energy savings calculations	☐

There are three ways to submit your completed custom incentive application.

Email your scanned form to: CustomIncentives@duke-energy.com

Or, fax your form to 980-373-9755

Or, mail to: Custom Incentives
Duke Energy
P.O. Box 1006 / EC2ZA
Charlotte, NC 28078

Smart $aver™
Nonresidential Custom Incentive Application

Duke Energy

Applicant and Customer Information Form (Required)

Customer information is required. Vendor/supplier information is optional.		
	Customer	**Vendor/supplier**
Contact Name	Gary Tout	Matt Lenz
Company	Ethicon	DeBra-Kuempel
Address	4545 Creek Rd	3976 Southern Ave
City, State, Zip	Cin OH 45242-2839	Cin, OH 45227
Title	Facilities Facilitator	Account Mgr.
E-mail Address	gtout@eesus.jnj.com	mLenz@DeBra-Kuempel.com
Phone	337 8416	513 527 8007
Fax	337 2416	513 527 8163

Smart $aver™
Nonresidential Custom Incentive Application

Duke Energy

Who is primary point of contact?	Matt Lenz	DeBRA-Kuempel 513 527-8007

mLenz@debra-kuempel.com

Most communication about this application will go to the customer via email, with the vendor/supplier copied on the message.

Payment Information					
Who should receive incentive payment? ☒ Customer ☐ Vendor (Customer must sign below)					
I hearby authorize payment of incentive directly to vendor: Customer Signature _____ Date_____					
Payee Legal Company Name (as shown on your income tax return):	Ethicon Endo-Surgery Attn: Gary Tout				
Mailing Address	4545 Creek Rd Ohio				
City	Cin	State OH		Zip Code	45242
☐ Individual/Sole Proprietor	☑ Corporation		☐ Partnership (check one)		
Payee Federal Tax ID # of Legal Company Name Above:	22-3842168				

If an incentive is awarded, when do you plan to start implementation 7-1-11 and

complete implementation ? 8-1-11

Have any of the facilities in this application received a Duke Energy assessment?

☒ No

☐ Yes, the assessment was ☐ on the web, ☐ over the phone or ☐ on-site

List of Sites (Required)

Provide a list of sites addressed by this custom incentive application, or submit in a separate spreadsheet file.

Site ID[1]	Duke Energy Electric Account Number(s)[2]	Facility Address	List of Proposed Projects at each site	Annual Hours of Operation	Gross Square Footage	Conditioned Square Footage	Facility Age (years)
225	12345678 01	Example: 123 Main Street, Anywhere USA 12345	Projects 1, 2 and 3	5,840	42,000	38,000	12
		4545 Creek RD CIN OH 45242	High efficiency 60 HP Motor 60 HP VFD For cooling tower		154,000	146,000	19

[1] Site ID can be a store number, building name or other way to identify the location. If there is only one site involved in this application, then a Site ID is not necessary.
[2] The account number(s) must match the facility of the proposed project(s). If there are multiple meters at a site, only include the meters that pertain to the project(s).

Smart $aver™
Nonresidential Custom Incentive Application

Duke Energy

Description of Projects (Required)

Project #1

For each project, answer the following questions (attach additional pages as necessary)

Project Name: Ethicon / Cooling Tower Project cell #1

How would you classify this project? (Check all that apply.)

☐ Lighting	☐ Heating/Cooling	☐ Air Compressor	☐ Energy Management System
☑ VFD	☑ Motors/Pumps	☐ Process Equipment	☐ Other, describe:

	Baseline	Proposed
	Describe the existing equipment/ system (baseline), how it operates today and any problems or issues[1]	Describe the proposed project, including how the energy reductions will be achieved
Project Description	Cooling tower has (1) 60HP 2 Speed MOTOR	INStall (1) 60 HP high efficiency Cooling tower MOTOR with 60 HP VFD,

Operating Hours

Equipment Weekday Operating Hours[2]	Equipment Weekend Operating Hours	Seasonal Load[3]	Describe proposed changes to equipment operating hours
		1p598	Seasonal

Electric Energy Savings Calculations (fill in all information, even if providing documentation)

	Baseline	Proposed	Savings
	Existing equipment/system	Proposed equipment/system	Savings = Baseline minus Proposed
Annual Electric Energy (kilowatt-hours)	42870.2 kWh	17912.7 kWh	24957.5 kWh

See attached sheet

[1] If the project does not involve replacing/modifying existing equipment, describe today's standard new equipment/system.
[2] Operating hours are when the equipment is typically used. If the project is proposed for more than one site, provide any variations in operating hours between the sites.
[3] For heating or cooling or a seasonal schedule, provide the months in which the equipment is utilized under "Seasonal Load".

Electric Demand (kilowatts)	kW	kW	kW
	ϕ	ϕ	ϕ
Calculations attached to this form	☐	☐	

Simple Payback

Average electric rate ($/kWh) on the applicable accounts	$0.05 /kWh[1]
Annual electric savings = rate ($/kWh) * annual savings (kWh)	$ 1247.86 annual electric savings
Other annual savings in addition to electric savings ☐ Operations/maintenance, ☐ Natural gas, ☐ Other	$ ϕ other annual savings
Cost to implement the project (equipment & installation)	$ 17,468.00
Copy of vendor proposal is attached (required)	☐
Simple Payback[2]	14 years

[1] For proposed projects that have demand savings but no electric savings, use $/kW average demand rate and adjust accordingly.
[2] Simple payback = implementation cost divided by (annual electric savings)

DeBra-Kuempel
Mechanical-Electrical
An EMCOR Company

DeBra-Kuempel
3976 Southern Avenue
Cincinnati, OH 45227
Phone: 513.271.6500
Fax: 513.271.4676

www.debra-kuempel.com

September 21, 2010
(Revised March 7, 2011)

Mr. Tim Davidson
Mr. Gary Tout
Ethicon Endo-Surgery
4545 Creek Road
Cincinnati, Ohio 45242

RE: ESI Cooling Tower Repairs
DK PT 101806

Dear Gentlemen:

DeBra-Kuempel is pleased to offer pricing to replace the defective 2-speed 60 HP tower motor in cell #1 south. We consulted with the local vendor for Marley. The 2-speed 60 HP replacement motor is no longer available. We have provided two (2) options for your review, one (1) to rebuild the existing motor and one (1) to install a new 1-speed motor with a variable frequency drive. This motor may be eligible for a rebate through Duke Energy. Their policy states that "VFD's over 50 HP are considered 'custom' measures and are not eligible for prescriptive incentives". However, we will request a rebate for this application as Duke Energy has been willing to compromise in the past.

Please see below for a detailed scope of work.

Option #1 – Scope of Work – Rebuild Motor:

- Disconnect and remove defective motor.
- Provide necessary crane and rigging.
- Send out 60 HP motor to be rebuilt.
  - Dismantle and inspect.
  - Clean all parts.
  - Strip motor.
  - Wind new coils.
  - Rewind starter to original specifications.
  - Dip and bake.
  - Install new ball bearings.
  - Assemble, test and paint.
- Reinstall rebuilt motor.
- Perform start up and operational checkout.

Option #1 – Quotation – Rebuild Motor:

DeBra-Kuempel will perform the above scope of work for the sum of ***Seven Thousand Eight Hundred and Six Dollars ($7,806.00)***, plus applicable sales tax.

Note: Please allow 7-10 days for motor repairs.

☐ Accept ☐ Decline

DeBra-Kuempel
Mechanical-Electrical
An EMCOR Company

DeBra-Kuempel
3976 Southern Avenue
Cincinnati, OH 45227
Phone: 513.271.6500
Fax: 513.271.4676

www.debra-kuempel.com

Option #2 – Scope of Work – Install New 60 HP Motor with Variable Frequency Drive:

- Disconnect and remove defective motor.
- Provide necessary crane and rigging.
- Provide and install new motor mount and hardware.
- Provide and install one (1) Marley coupling.
- Provide and install one (1) 60 HP 1-speed motor.
- Provide and install one (1) 60 HP 460 volt Yaskawa VFD with bypass.
- Provide necessary control signal for new VFD.
- Perform operational checkout.

Option #2 – Quotation – Install New 60 HP Motor with Variable Frequency Drive:

DeBra-Kuempel will perform the above scope of work for the sum of ***Seventeen Thousand Four Hundred and Sixty-Eight Dollars ($17,468.00)***, plus applicable sales tax.

Note: Please allow 3 weeks lead time for motor.

❑ Accept ❑ Decline

Conditions:

- This proposal is based upon all work being performed during the normal working hours of 7:30 a.m. and 4:00 p.m., Monday through Friday, excluding holidays.
- Invoices will be rendered as work progresses and all invoices are payable upon receipt.
- Service charges at the rate of 1½% per month (as stated on our invoices) will be charged on all past due accounts.
- This quotation is subject to revision if not accepted within thirty (30) days.
- To signify your acceptance, please sign below and return a copy of this proposal with your purchase order.

Thank you for this opportunity to be of service. If you have any questions or if I can be of further assistance please feel free to contact me directly at (513) 527-8007.

Respectfully,

DEBRA-KUEMPEL

Matt Lenz
Account Manager

Acceptance:

_____
Authorized Signature *Title*

_____
Date *P.O. #*

Smart $aver™
Nonresidential Custom Incentive Application

Duke Energy

CUSTOMER CONSENT TO RELEASE OF PERSONAL INFORMATION (Required)

I, INSERT NAME, do hereby consent to Duke Energy disclosing my Duke Energy Account Number and Federal Tax ID Number to its subcontractors solely for the purpose of administering Duke Energy's Smart $aver Program. I understand that such subcontractors are contractually bound to otherwise maintain my Duke Energy Account Number and Federal Tax ID Number in the strictest of confidence.

I realize that under the rules and regulations of the public utilities commission, I may refuse to allow Duke Energy to release the information set forth above. By my signature, I freely give Duke Energy permission to release the information designated above.

(Signature)

Name: Gary Tout

Date: 6/20/11

Smart $aver™
Nonresidential Custom Incentive Application

Duke Energy

Project Questionnaire (Required)

The intent of *Duke Energy's* Smart $aver Nonresidential Custom Incentive Program is to cause the implementation of high efficiency energy saving project that would otherwise *not* be completed without the program's assistance (whether that be financial, technical, or other). Please take a moment to complete the following statement.

1. Please indicate if the *Duke Energy* incentive is/was a factor in your choice to install the more energy efficient equipment instead of other equipment that may not have saved as much energy.

   A. ☒ Program assistance/incentive has an influence on our decision, or
   B. ☐ Program assistance/incentive has no influence at all on our decision

2. If the *Duke Energy* incentive was a factor in your decision, please indicate how much of an influence the program incentive/service had on your energy efficient equipment choice. Please check the number that best represents the level of influence the program has on your equipment choice.

The Duke Energy program had no effect on our equipment choice	The Duke Energy program may have had a minor influence on our energy efficient equipment choice		The Duke Energy program had a positive influence in our selection of the energy efficient equipment		The Duke Energy program was one of the key reasons for the energy efficient equipment choice, but not the most important reason		The Duke Energy program was one of the most important reasons for the energy efficiency equipment choice		The Duke Energy program was the primary reason for the energy efficient equipment choice	
0☐	1☐	2☐	3☐	4☒	5☐	6☐	7☐	8☐	9☐	10☐

3. Do you think that you would have or will select the same level of energy efficiency if the program information and technical assistance would not have been available to you?

   A. ☐ No, we would make a different equipment selection or not do the same project
   B. ☐ Not sure what we would do
   C. ☒ Yes, we would make exactly the same equipment choice.

4. Do you think that you would have or will select the same level of energy efficiency if the program's financial incentives would not have been available to you?

   A. ☐ No, we would make a different equipment selection or not do the same project
   B. ☒ Not sure what we would do
   C. ☐ Yes, we would make exactly the same equipment choice.

Smart $aver™
Nonresidential Custom Incentive Application

Duke Energy®

5. Please check each of the boxes below indicating the different ways *Duke Energy* has in some way assisted in your decisions about this specific energy efficiency project. In addition, please indicate how important each of the different types of assistance has been in your decision to choose the energy efficient alternative. Please use a 1-10 scale with 1 meaning *Duke Energy's* program assistance was not very important in your decision, and a 10 meaning this assistance was very important.

			Score
Duke Energy has assisted in this way			(1 to 10 Scale)
Reviewed technology proposals/bids	☐ Yes	☒ No	
Found suppliers or contractors	☐ Yes	☒ No	
Worked with facility energy planning or teams	☐ Yes	☒ No	
Worked with facility engineer	☐ Yes	☒ No	
Helped find/obtain financing	☐ Yes	☒ No	
Conducted Technology or Energy Assessments	☐ Yes	☒ No	
Provided Training	☐ Yes	☒ No	
Engineering Analysis	☐ Yes	☒ No	

Smart $aver™
Nonresidential Custom Incentive Application

Duke Energy

Developed Savings Calculations	☐ Yes	☒ No	
Product/Measure Info	☐ Yes	☒ No	
Assistance in finding a vendor or engineering firm	☐ Yes	☒ No	
Assistance in selling project to management	☐ Yes	☒ No	
Verification of calculations	☐ Yes	☒ No	
Reference or case study of the technology or application	☐ Yes	☒ No	
Permitting or code Information	☐ Yes	☒ No	
Rate of Billing Information	☐ Yes	☒ No	
Financial Incentive for Project Equipment	☒ Yes	☐ No	6
Other	☐ Yes	☒ No	

Smart $aver™
Nonresidential Custom Incentive Application

Duke Energy®

6. *Duke Energy* understands that energy savings is just one of many potential benefits of a project. Please rate the following benefits as they pertain to the project described above. (0 = not an expected benefit of this project, 5 = major expected benefit of this project)

	0	1	2	3	4	5
Energy cost savings	☐	☐	☐	☐	☐	☒
Maintenance-related savings	☐	☐	☐	☒	☐	☐
Production capacity or product quality improvement	☐	☐	☐	☒	☐	☐
Satisfies a regulatory or code requirement	☐	☐	☐	☐	☒	☐
Other	☐	☐	☐	☐	☐	☐

7. Please describe how and when you (your company) first became aware of how the proposed energy efficiency measures/project could help your company save energy.

WORK WITH OUR DUKE REPRESENTATIVE AND ENERGY CONSULTANT FIRMS, APPROX 5-6 YRS AGO.

Smart $aver™
Nonresidential Custom Incentive Application

Duke Energy®

Signature (Required)

I certify that I meet the eligibility requirements of the *Duke Energy* Smart $aver Custom Incentives Program and that all information provided within this application is correct to the best of my knowledge. I agree to the terms and conditions set forth for this program. I certify that the numbers, energy savings, and responses shown on this form are correct. Further, I certify that the taxpayer identification number is current and correct. I am not subject to backup withholding because: (a) I am exempt from backup withholding; or (b) I have not been notified by the IRS that I am subject to backup withholding as a result of a failure to report all interest or dividends; or (c) the IRS has notified me that I am no longer subject to backup withholding. I am a U.S. citizen (includes a U.S. resident alien).

Customer Signature

Print Name GARY TOM

Date 6/20/11

Specifications

Performance Features

- VT Ratings: 1/2-150 HP, 208 VAC
  1/2-150 HP, 230/240 VAC
  1/2-500 HP, 480 VAC
- 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
- Energy Saving control
- Power loss ride-thru: 2 sec
- Auto restart after power loss or resettable fault, programmable
- Feedback signal loss detection
- Serial communications loss detection
- "Up/Down" floating point control
- Stationary motor auto-tuning
- Customizable monitor display
- Sleep function
- Run permissive input
- 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 trace
- Fault circuit: OC, OV, OT
- Program security code
- Reverse prohibit selectability

Design Features

- 32-bit microprocessor logic
- Flash upgradeable firmware
- Non-volatile memory, program retention
- Surface-mount components
- Displacement power factor: 0.98
- Output frequency: 0.1 to 120 Hz
- Frequency resolution: 0.06 Hz
- Frequency regulation: 0.1%
- Control Terminal Board: quick disconnect, removable
- Carrier frequency: selectable to 15 kHz
- 3% DC bus reactor: 30-150 HP, 208 VAC; 30-150 HP, 240 VAC; 40-500 HP, 480 VAC; optional on lower ratings
- Keypad Operator: Hand/Off/Auto, built-in copy feature, 7 languages
- LCD display: 5 lines, 16 characters each
- 24 VDC control logic
- Transmitter/Option power supply 15 VDC, 20 mA
- Output contacts: one form C and two programmable form A
- Input/output terminal status
- Input terminals: 5 programmable multi-function input terminals
- Fault input: programmable
- Diagnostic fault indication in selected language
- Timer function: Elapsed time, Delay on start, Delay on stop
- RS-422/485 port: embedded Metasys N2, APOGEE FLN, and Modbus
- Volts/hertz ratio: 15 preset and 2 programmable V/Hz patterns
- Multi-speed settings: 5 available
- Remote speed command: 0-10 VDC or 4-20 mA, direct or reverse-acting
- Setpoint (PI) control with inverse or square root input, differential control via two feedback capability
- Feedback signal: low pass filter
- Speed command: bias and gain
- Analog outputs: programmable, two, 0-10 VDC
- Meter Functions: volt, amp, kilowatt, elapsed run time, speed command
- Output Current Transformers, three
- NEMA 1 or protected chassis
- UL, cUL listed and CE marked; IEC 146;
- MTBF: exceeds 28 years

Service Conditions

- Ambient Temperature: -10°C to 40°C NEMA 1, 45°C protected chassis (14°F to 104°F, 113°F)
- Humidity: 95% RH, non-condensing
- Altitude: 3300 ft; higher by derate
- Input voltage: +10% or -15%
- Input frequency: 50/60 Hz ± 5%
- 3-phase, 3-wire, phase sequence insensitive
- Plenum rated (UL 1995)

Bypass Features

- Standard package to 250 HP
- Input, output, and bypass contactors
- Circuit breaker disconnect (MCP), with interlocked, through-the-door operating mechanism
- Thermal motor overload relay, class 20
- 115 VAC control transformer, fused
- Drive/Bypass selector switch
- Hand/Off/Auto selector switch
- Normal/Test selector switch
- Pilot lights, 22mm LED, for Control Power, Drive Run, Drive Fault, Bypass Run, Motor OL/Safety Fault and Smoke Purge
- Switch selectable auto transfer to bypass on drive fault
- Switch selectable remote transfer to bypass via contact closure
- Switch selectable smoke purge function
- Run mode and Fault contacts
- Control and safety circuit terminal strip
- Damper circuit safety interlock
- Customer use, 115V, 100VA

Options

- Remote digital operator kit
- Input fuses, I^2t; circuit breakers
- Oversized control transformer
- NEMA 3R and 12 enclosures
- Input and/or output reactor
- Twelve-pulse rectification with input transformer: 30 -150 HP, 208 VAC; 30-150 HP, 240 VAC; 40-500 HP, 480 VAC
- Communication Interface: LonWorks
- RFI/EMI filter
- Pressure transducer, 3-15 PSI
- Multiple motor operation logic
- Speed potentiometer
- Run/Stop push buttons
- Motor protection load reactor
- Engraved nameplates
- Analog outputs: programmable, two, 4-20 mA
- DriveWizard™ upload/download and monitoring/graphing software

YASKAWA

Yaskawa Electric America, Inc.
16555 W. Ryerson Road
New Berlin, WI 53151
(800)YASKAWA (927-5292) Fax (262) 782-3418
www.drives.com

Bulletin BL.E7.01

Dimensions

E7 Drive

Rated Input Voltage	Rated Output Current (Amps)	Nominal HP	Dimensions (inches) Height	Width	Depth	Weight (lbs.)[1]	Standard Enclosure
208 V	3.6	1/2 & 3/4	11.02	5.51	6.30	6.6	NEMA 1
	4.6	1					
	7.8	2					
	10.8	3					
	16.8	5			7.09	8.8	
	31.0	7.5 & 10	11.81	7.87	7.87	13.2	
	46.2	15	12.20			15.4	
	59.4	20	13.78	9.45	8.27	24.2	
	74.8	25	14.96				
	88	30	21.06	10.00	10.24	53	
	115	40	24.21	10.98		59	
	162	50	23.62	14.76	11.81	125	Protected Chassis
	192	60			12.99	139	
	215	75	28.54	17.72	13.78	189	
	312	100				191	
	360	125	33.46	19.69	14.17	238	
	415	150	34.84	22.64	14.96	330	
240 V	3.6	1/2 & 3/4	11.02	5.51	6.30	6.6	NEMA 1
	4.6	1					
	7.8	2					
	10.8	3					
	16.8	5			7.09	8.8	
	23	7.5					
	31	10	11.81	7.87	7.87	13.2	
	46.2	15	12.20			15.4	
	59.4	20	13.78	9.45	8.27	24.2	
	74.8	25	14.96				
	88	30	21.06	10.00	10.24	53	
	115	40	24.21	10.98		59	
230 V	162	50 & 60	23.62	14.76	11.81	125	Protected Chassis
	192	75			12.99	139	
	312	100 & 125	28.54	17.72	13.78	193	
	360	150	33.46	19.69	14.17	238	
480 V	1.8	1/2 & 3/4	11.02	5.51	6.30	6.6	NEMA 1
	2.1	1					
	3.7	2					
	5.3	3			7.09	8.8	
	7.6	5					
	12.5	7.5					
	17	10	11.81	7.87	7.87	13.2	
	27	15 & 20					
	34	25	13.78	9.45	8.27	22	
	40	30					
	67.7	40 & 50	21.06	10.98	10.24	53	
	77	60	25.00	12.95	11.22	88	
	96	75	28.15				Protected Chassis
	125	100					
	156	125	28.54	17.72	13.78	194	
	180	150				196	
	240	200	33.46	19.69	14.17	224	
	304	250	36.06	22.64	14.96	352	
	414	300 & 350	27.95	51.38	16.34	572	
	515	400 & 450				670	
	675	500	36.06	58.07	16.34	891	

E7 / Bypass Package[2]

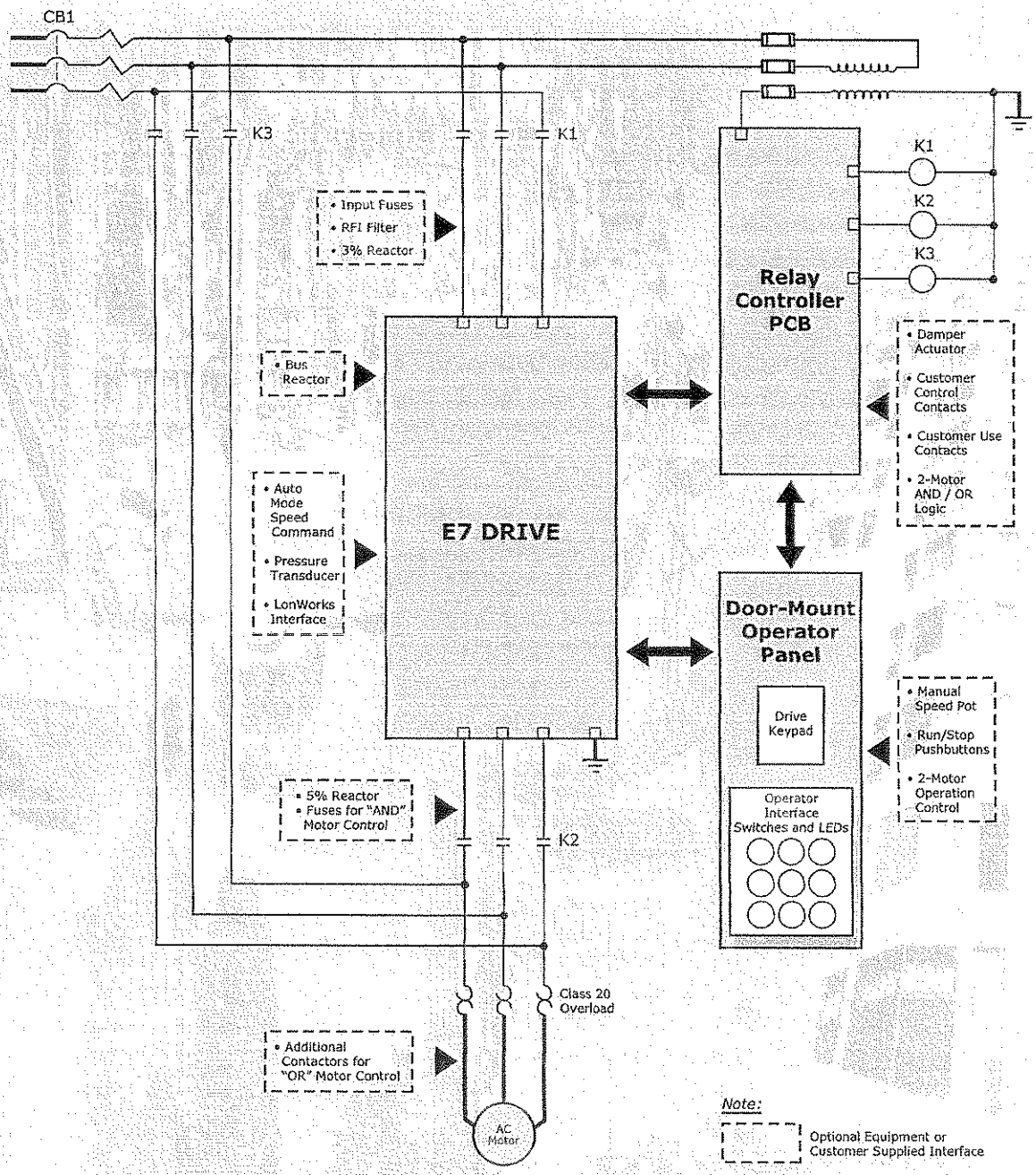
Rated Input Voltage	Rated Output Current (Amps)	Nominal HP	Dimensions (inches) Height	Width	Depth	Weight (lbs.)[3]
208 V	2.4	1/2	29.00	19.00	13.66	115
	3.5	3/4				
	4.8	1				
	7.5	2				
	10.6	3				
	16.7	5				
	24.2	7.5				
	30.8	10				127
	46.2	15				
	59.4	20	40.00	25.63	14.66	208
	74.8	25				
	88	30				221
	114	40				
	143	50	84.00	37.75	20.00	847
	169	60				943
	211	75				
	273	100				1214
	343	125				1330
	396	150				1423
240 V	2.2	1/2	29.00	19.00	13.66	115
	3.2	3/4				
	4	1				
	6.8	2				
	9.6	3				
	15.2	5				
	22	7.5				
	28	10				127
	42	15				
	54	20	40.00	25.63	14.66	208
	68	25				
	80	30				221
	104	40				
230 V	130	50	84.00	37.75	20.00	847
	154	60				943
	192	75				
	248	100				1214
	312	125				1330
	396	150				1376
480 V	1.1	1/2	29.00	19.00	13.66	115
	1.6	3/4				
	2.1	1				
	3.4	2				
	4.8	3				
	7.6	5				
	11	7.5				
	14	10				127
	27	15				
	27	20				142
	34	25				
	40	30				
	52	40	40.00	25.63	14.66	203
	65	50				232
	77	60				
	96	75				241
	124	100				
	156	125	84.00	37.75	20.00	943
	180	150				
	240	200				1240
	302	250				1352

[1] Note that weight represents drive weight only, not shipping weight

[2] All NEMA 1 Enclosures

[3] Weight may vary with options; maximum weight of bypass with all options is listed

E7/Bypass Schematic



Ethicon
Endo-Surgery
PART OF THE Johnson & Johnson FAMILY OF COMPANIES

November 7, 2011

Duke Energy
Self Direct Program
105 East Fourth Street
Cincinnati, Ohio 45202

To Whom it May Concern,

This letter is to inform you that the 60 HP high efficiency motor with the 60 HP VFD installation has been completed by Ethicon. Due to the fact that we found it necessary to install this equipment prior to approvals, we would like change our submission from the Duke Energy custom program to the Self Direct program for the application 11-206 submitted on June 20, 2011 and the offer letter received by Ethicon on July 11, 2011. Please send us the new offer letter at your convenience.

Sincerely,

Gary Tout
Staff Facilities Engineer
Ethicon Endo-Surgery, Inc.

DeBra-Kuempel
MECHANICAL - ELECTRICAL
An EMCOR Service Company

Remit to: ***P.O. Box 701620***
Cincinnati, OH 45270-1620

BILLED BY: CAMILLE J. 513-527-8188

INVOICE **661000**

DATE **6/28/2011**

J&J SERVICES
PO BOX 16506
ATTN: ACCOUNTS PAYABLE
NEW BRUNSWICK, NJ 08906-6506
877-557-4487

ETHICON/ CREEK ROAD
4545 CREEK ROAD
CINCINNATI, OH

Customer P.O. No.: **992663157**

Ticket Number: **311253**
Bill Contract: **311253**

REFERENCE DESCRIPTION	AMOUNT
ETHICON/ COOLING TOWER MOTOR REPAIRS LABOR AND MATERIALTO INSTALL NEW FAN MOTOR AND INSTALL (1) VFD	
INVOICE AMOUNT	$17,468.00

Now Accepting Visa/MC/AMX for
Payment of Invoices.
A Service Charge of 1.5% per Month
will be charged on All Past Due Accts.

SUB-TOTAL	$17,468.00
TAX	$1,135.42
AMOUNT PAID	$18,603.42
AMOUNT DUE	$0.00

DUE ON RECEIPT

Appendix C -Commitment Payment Calculation

Measure	Quantity	Commitment Payment/Rebate Rate	Rebate	Total Cash Rebate
VFD Added to 60 HP Two-Speed Cooling Tower Fan Motor	1	50% of incentive that would be offered by the Smart $aver Custom program	$ 525.00	**$ 525.00**

Appendix D -UCT Value

Measure	Total Avoided Cost	Program Cost	Incentive	Quantity	Measure UCT
VFD Added to 60 HP Two-Speed Cooling Tower Fan Motor	*$13,272*	*$184*	*$525*	1	18.73