



# Public Utilities Commission

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

**Case No.: 13\_\_ - 1192\_-EL-EEC**

Mercantile Customer:

General Mills

Electric Utility:

Duke Energy

Program Title or

Description: Electric

Projects 2010-2012

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: General Mills

Principal address: 11301 Mosteller Road, Cincinnati, OH 45241

Address of facility for which this energy efficiency program applies: 11301 Mosteller Road, Cincinnati, OH 45241

Name and telephone number for responses to questions: Rob Rogan, 513.612.5569

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

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.)



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GENERAL MILLS OPERATIONS  
11801 MOSTELLER RD  
CINCINNATI, OH 45241

Date	Days	Actual KWH	Bill KWH	Actual Demand	Bill Demand	Net Charge	Supplier Charge	KWH/Day	KVAR
12/27/12	31	1,413,010	1,434,205	3,251.7	3,549.5	\$ 19,172.31		46,265	2
11/26/12	33	1,633,656	1,658,161	3,427.9	3,549.5	\$ 15,852.83		50,247	
10/24/12	29	1,777,766	1,804,432	3,472.4	3,549.5	\$ 13,684.80		62,222	
09/25/12	32	2,079,845	2,111,043	4,175.9		\$ 12,497.89		65,970	8
08/24/12	29	2,049,821	2,080,568	4,066.8		\$ 11,797.30		71,744	7
07/26/12	30	2,044,253	2,074,917	3,999.6		\$ 11,153.18		69,164	7
06/26/12	32	1,961,203	1,990,621	4,070.4		\$ 13,294.21		62,207	7
05/25/12	29	1,797,379	1,824,340	3,541.2	3,979.3	\$ 14,991.08		62,908	4
04/26/12	30	1,502,280	1,524,814	3,381.9	3,979.3	\$ 19,844.60		50,827	3
03/27/12	29	1,504,248	1,526,812	3,541.2	3,979.3	\$ 19,812.23		52,649	4
02/27/12	31	1,431,053	1,452,519	3,055.8	3,979.3	\$ 21,016.06		46,856	1
01/27/12	30	1,413,629	1,434,834	3,189.3	3,979.3	\$ 18,430.15		47,828	6
			<b>20,917,266</b>	4,070.4		\$ 191,546.64			

12/28/11	30	1,415,194	1,436,422	3,208.2	3,979.3	\$ 99,922.06	\$ 92,634.85	47,881	6
11/28/11	33	1,817,712	1,844,978	3,788.0	3,979.3	\$ 115,153.29	\$ 106,140.74	55,908	5
10/26/11	29	1,842,389	1,870,025	3,665.6	3,979.3	\$ 116,087.00	\$ 106,968.73	64,484	5
09/27/11	32	2,086,454	2,117,751	4,288.8		\$ 130,352.24	\$ 120,187.81	66,180	8
08/26/11	29	2,046,221	2,076,914	4,681.5		\$ 133,180.20	\$ 123,188.22	71,618	1
07/28/11	30	2,082,907	2,114,151	3,916.0		\$ 126,044.02	\$ 115,894.80	70,472	
06/28/11	32	1,612,152	1,636,334	3,317.8		\$ 101,153.02	\$ 93,021.62	51,135	
05/27/11	29	1,180,795	1,198,507	2,565.8	2,811.2	\$ 90,442.55	\$ 84,160.09	41,328	
04/28/11	30	912,888	926,581	2,328.3	2,811.2	\$ 78,493.71	\$ 73,359.60	30,886	
03/29/11	29	982,483	997,220	3,001.9		\$ 86,557.35	\$ 81,124.93	34,387	
02/28/11	31	1,146,917	1,164,121	2,188.8	2,811.2	\$ 91,826.53	\$ 85,689.28	37,552	
01/28/11	30	918,336	932,111	2,611.8	2,811.2	\$ 79,088.39	\$ 73,930.91	31,070	
			<b>18,315,115</b>	4,681.5		\$ 1,248,300.36			

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12/29/10	35	1,093,920	1,110,329	2,479.5	2,811.2	\$ 99,333.25	\$ 88,708.44	31,724	
11/24/10	29	1,244,002	1,262,662	2,380.8	2,811.2	\$ 108,108.80	\$ 96,838.08	43,540	
10/26/10	29	1,564,094	1,587,555	3,110.5		\$ 130,456.29	\$ 117,312.49	54,743	
09/27/10	32	1,949,184	1,978,422	3,289.0		\$ 138,779.75	\$ 123,681.57	61,826	
08/26/10	29	1,617,874	1,642,142	3,218.1		\$ 121,468.14	\$ 107,915.24	56,626	
07/28/10	30	1,607,774	1,631,891	3,307.3		\$ 122,074.66	\$ 108,418.40	54,396	
06/28/10	32	1,708,699	1,734,329	3,213.5		\$ 125,311.11	\$ 111,374.18	54,198	
05/27/10	29	1,195,968	1,213,908	2,337.7	2,726.0	\$ 94,011.76	\$ 83,088.41	41,240	
04/28/10	30	988,066	1,002,887	2,284.8	2,726.0	\$ 83,774.34	\$ 73,747.41	32,936	
03/29/10	31	816,922	829,176	2,016.0	2,726.0	\$ 75,598.15	\$ 66,313.35	26,352	
02/29/10	29	706,478	717,075	2,016.0	2,726.0	\$ 69,634.19	\$ 61,502.12	24,361	
01/28/10	30	751,866	763,144	2,073.7		\$ 69,820.52	\$ 61,311.33	25,062	
			<b>15,473,520</b>	3,307.3		\$ 1,238,370.96			

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### 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): \_\_\_\_\_.
- ☐ Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s): \_\_\_\_\_.
- ☐ Behavioral or operational improvement.

B) Energy savings achieved/to be achieved by the energy efficiency program:

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

Annual savings: 1,169,172 kWh

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

Annual savings: \_\_\_\_\_ kWh

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



- 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.

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We installed Variable Speed Drives and a new Control System on our Chilled Water Distribution System. We then changed how we managed our chilled water system to minimize the excess flow through the chillers. As a result our chiller efficiency improved from 1.1 KW/ton to .8 KW/ton. We average about 400 tons of cooling for the non winter 9 months of the year (During winter we switch to free cooling using the outside air). This leads to this savings calculation.

0.3 KW/Ton  
400 Tons  
120 KW

If we can save .3 KW/Ton averaging 400 tons that 120 KW overall improvement

120 KW  
24 Hours  
2880 KWH per day  
30 Days  
9 Months  
KWH over 8  
777600 months



We upgraded control systems and added VFDs to 4 Large HVAC systems with 120 combined fan horsepower. These fans are now able to be remotely started and stopped quickly on down weekends as well as run at a reduced fan speed when running. This allows for an overall 50% reduction in power usage.

60	HP
44.7	KW
24	Hours
1073	KWH per day
365	Days
391572	KWH over a year



## Section 5: Request for Cash Rebate Reasonable

### Arrangement (Option 1) or Exemption from Rider (Option 2)

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

A) The customer is applying for:

- ☐ Option 1: A cash rebate reasonable arrangement.

OR

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

OR

- ☐ Commitment payment

B) The value of the option that the customer is seeking is:

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

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

Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.

- ☐ An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for \_\_\_\_\_ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

- ☐ A commitment payment valued at no more than \$\_\_\_\_\_. (Attach documentation and



calculations showing how this payment amount was determined.)

OR

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

### Section 6: Cost Effectiveness

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

- ☐ Total Resource Cost (TRC) Test. The calculated TRC value is: \_\_\_\_\_ (Continue to Subsection 1, then skip Subsection 2)
- ☐ Utility Cost Test (UCT) . The calculated UCT value is: \_\_\_\_\_ (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 \_\_\_\_\_.



General Mills Cincinnati has made energy reduction a priority. We have annual energy reduction as part of our planning process. This includes annual capital spending to reduce energy use, but also behavioral initiatives.

On the capital side, the calculations listed in this sheet are for a chiller control system upgrade we completed a few months ago. In the past 2 years we upgraded the controls and added VFDs to 4 of our Air Handling Units for HVAC. The energy reductions were verified with local current measurements. The combined KWH / year savings is over 1,169,000 which is a 6.4% reduction in KWHs from our baseline average of 18,235,300.

Our commitment to energy reduction is strong across General Mills. . We feel the Duke program to be un-necessary paperwork that will not incent us to take any further behavior beyond what we are doing today and request our exemption to the maximum level based on these savings achieved through 2016.





# Public Utilities Commission

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

Case No.: 13 - 1192-EL-EEC

State of OHIO :

ROBERT ROGAN, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

GENERAL MILLS

[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.

[Signature] PROJECT ENGINEER  
Signature of Affiant & Title

Sworn and subscribed before me this 4 day of JUNE, 2013 Month/Year

Juanita L. Dam  
Signature of official administering oath

Juanita L. Dam Notary  
Print Name and Title

My commission expires on 9-13-2017



Juanita L. Dam  
Notary Public, State of Ohio  
My Commission Expires 09-13-2017



**This foregoing document was electronically filed with the Public Utilities**

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**in**

**Case No(s). 13-1192-EL-EEC**

Summary: Application electronically filed by Mr. Robert Rogan on behalf of General Mills