



DUKE ENERGY CORPORATION

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Kristen Cocanougher  
Sr. Paralegal  
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**VIA OVERNIGHT DELIVERY**

January 19, 2012

RECEIVED

JAN 20 2012

PUBLIC SERVICE  
COMMISSION

Mr. Jeff Derouen  
Executive Director  
Kentucky Public Service Commission  
211 Sower Blvd  
Frankfort, KY 40601

**Re: Case No. 2011-448**

**In the Matter of the Application of Duke Energy Kentucky, Inc. for the Annual  
Cost Recovery Filing for Demand-Side Management**

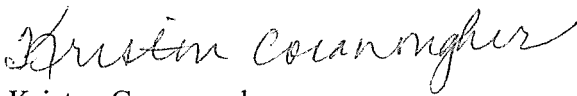
Dear Mr. Derouen:

Enclosed please find an original and twelve copies each of *Duke Energy Kentucky, Inc.'s Responses to Commission Staff's First Set of Data Requests* in the above captioned case. A CD is also enclosed which contains the electronic version of the attachments to Data Request Nos. 15, 16, 17, 18, 28.

Please note a *copy* of the verification form of Casey Mather is included with these responses. An original of this form will be filed separately.

Please date-stamp the extra two copies of the filing and return to me in the enclosed envelope.

Sincerely,

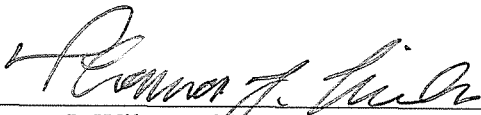
  
Kristen Cocanougher

cc: Larry Cook  
Richard Raff  
Florence W. Tandy  
Carl Melcher

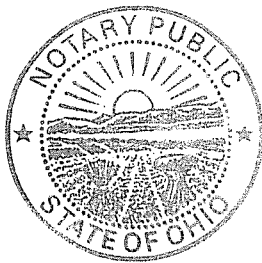
# VERIFICATION

State of Ohio                    )  
  )  
County of Hamilton            )       SS:


The undersigned, Thomas J. Wiles, being duly sworn, deposes and says that he is the General Manager, Market Analytics, that he has supervised the preparation of the responses to the foregoing information requests; and that the matters set forth in the foregoing responses to information requests are true and accurate to the best of his knowledge, information and belief, after reasonable inquiry.

  
\_\_\_\_\_  
Thomas J. Wiles, Affiant

Subscribed and sworn to before me by January on this 18<sup>th</sup>  
day of January 2012.



E. MINNA ROLFES  
Notary Public, State of Ohio  
My Commission Expires  
June 10, 2012

  
\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: 6/10/12

VERIFICATION

State of North Carolina       )  
  ) SS: I  
County of Mecklenburg       )

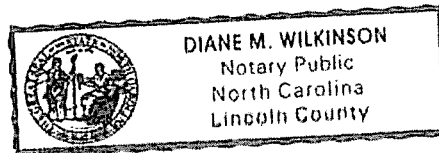
The undersigned, Casey Mather, being duly sworn, deposes and says that he is the Managing Director of Mass Market Strategy and Market Planning, and that the matters set forth in the foregoing testimony are true and correct to the best of his information, knowledge and belief.

Casey Mather  
Casey Mather, Affiant

Subscribed and sworn to before me by Casey Mather on this 18<sup>th</sup> day of January 2012.

Diane M. Wilkinson  
NOTARY PUBLIC

My Commission Expires: 12 July 2014

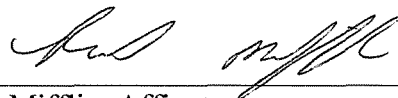


CASEY MATHER DIRECT

**VERIFICATION**

**State of North Carolina     )**  
**)**     **SS:**  
**County of Mecklenburg     )**

The undersigned, Rick Mifflin, being duly sworn, deposes and says that he is the Sr. Manager, Marketing, that he has supervised the preparation of the responses to the foregoing information requests; and that the matters set forth in the foregoing responses to information requests are true and accurate to the best of his knowledge, information and belief, after reasonable inquiry.



\_\_\_\_\_  
Rick Mifflin, Affiant

Subscribed and sworn to before me by Rick Mifflin on this 13<sup>th</sup>  
day of January 2012.

  
\_\_\_\_\_  
NOTARY PUBLIC Elaine Falcone

My Commission Expires: 2/07/16

**VERIFICATION**

**State of Ohio**                     )  
  )  
**County of Hamilton**         )       SS:

The undersigned, Bruce Sailers, being duly sworn, deposes and says that he is the Manager, Product Development Analytics, that he has supervised the preparation of the responses to the foregoing information requests; and that the matters set forth in the foregoing responses to information requests are true and accurate to the best of his knowledge, information and belief, after reasonable inquiry.

Bruce L. Sailers  
Bruce Sailers, Affiant

Subscribed and sworn to before me by Bruce L. Sailers on this 13<sup>th</sup>  
day of January 2012.



E. MINNA ROLFES  
Notary Public, State of Ohio  
My Commission Expires  
June 10, 2012


E. Minna Rolfes  
NOTARY PUBLIC

My Commission Expires: 6/10/12

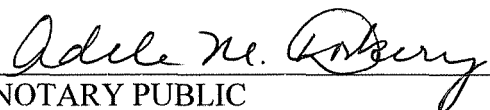
**VERIFICATION**

**State of Ohio**                     )  
  )  
**County of Hamilton**         )         **SS:**

The undersigned, Kevin Bright, being duly sworn, deposes and says that he is the Managing Director, Large & Small Business Market Strategy & Products, that he has supervised the preparation of the responses to the foregoing information requests; and that the matters set forth in the foregoing responses to information requests are true and accurate to the best of his knowledge, information and belief, after reasonable inquiry.

  
\_\_\_\_\_  
Kevin Bright, Affiant

Subscribed and sworn to before me by KEVIN BRIGHT on this 11<sup>th</sup>  
day of January 2012.

  
\_\_\_\_\_  
NOTARY PUBLIC

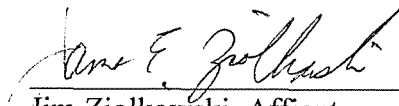
**ADELE M. DOCKERY**  
Notary Public, State of Ohio  
My Commission Expires 01-05-2014

My Commission Expires: 1/5/2014

# VERIFICATION

State of Ohio                    )  
  )  
County of Hamilton            )       SS:

The undersigned, Jim Ziolkowski, being duly sworn, deposes and says that he is the Rates Manager, that he has supervised the preparation of the responses to the foregoing information requests; and that the matters set forth in the foregoing responses to information requests are true and accurate to the best of his knowledge, information and belief, after reasonable inquiry.

  
\_\_\_\_\_  
Jim Ziolkowski, Affiant

Subscribed and sworn to before me by JIM ZIOLKOWSKI on this 16<sup>TH</sup>  
day of January 2012.

ADELE M. DOCKERY  
Notary Public, State of Ohio  
My Commission Expires 01-05-2014

  
\_\_\_\_\_  
NOTARY PUBLIC

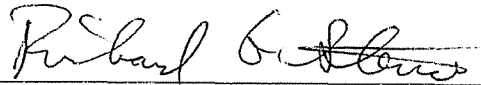
My Commission Expires: 1/5/2014



**VERIFICATION**

State of Ohio                    )  
  )     SS:  
County of Hamilton            )

The undersigned, Richard G. Stevie, being duly sworn, deposes and says that he is the Chief Economist, that he has supervised the preparation of the responses to the foregoing information requests; and that the matters set forth in the foregoing responses to information requests are true and accurate to the best of his knowledge, information and belief, after reasonable inquiry.

  
Richard G. Stevie, Affiant

Subscribed and sworn to before me by RICHARD G. STEVIE on this 11<sup>TH</sup>  
day of January 2012.

ADELE M. DOCKERY  
Notary Public, State of Ohio  
My Commission Expires 01-05-2014

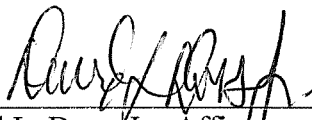
  
NOTARY PUBLIC

My Commission Expires: 1/5/2014

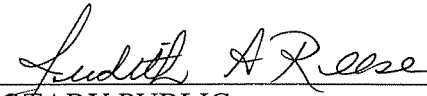
**VERIFICATION**

**State of North Carolina**     )  
  )  
**County of Mecklenburg**     )     **SS:**

The undersigned, David L. Doss, Jr., being duly sworn, deposes and says that he is the Managing Director, Project Accounting, that he has supervised the preparation of the responses to the foregoing information requests; and that the matters set forth in the foregoing responses to information requests are true and accurate to the best of his knowledge, information and belief, after reasonable inquiry.

  
\_\_\_\_\_  
David L. Doss, Jr., Affiant

Subscribed and sworn to before me by David L. Doss, Jr. on this 16th  
day of January 2012.


  
\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: 02/26/2012

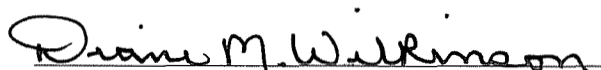
# VERIFICATION

State of North Carolina     )  
  )  
County of Mecklenburg     )     SS:

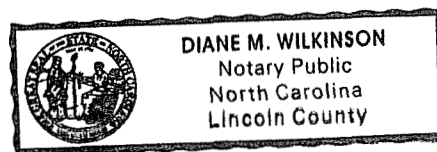
The undersigned, Michael Corn, being duly sworn, deposes and says that he is Lead Marketing Manager, that he has supervised the preparation of the responses to the foregoing information requests; and that the matters set forth in the foregoing responses to information requests are true and accurate to the best of his knowledge, information and belief, after reasonable inquiry.

  
Michael Corn, Affiant

Subscribed and sworn to before me by Michael Corn on this 16<sup>th</sup>  
day of January 2012.

  
NOTARY PUBLIC

My Commission Expires: 12 July 2014





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**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-001**

**REQUEST:**

Refer to page 6 of Duke Kentucky's November 15, 2011 Demand-Side Management ("DSM") Application ("Application"). The Application states, "[s]tarting in 2011, any program that has customer installed (time of sale) compact fluorescent light ("CFL") bulbs included had a change in impact due to the implementation of the results received in Ohio/Kentucky for these types of CFLs. These programs are the Personalized Energy Report ("PER"), Energy Efficient Website and Energy Star Products." Provide a comparison of kWh impact by CFL bulb before the evaluation in this Application and the kWh impact by CFL bulb resulting from the evaluation in this Application for the following: PER, Energy Efficient ("EE") Website and Energy Star Products programs for Kentucky customers.

**RESPONSE:**

See Table below:

<b>Program</b>	<b>Gross Annual KWh Impact Prior to Evaluation (per bulb)</b>	<b>Gross Annual KWh Impact After Evaluation (per bulb)</b>	<b># of Bulbs</b>
Personalized Energy Report	67.7	52.76	6
Energy Efficient Website	67.7	52.76	6
Energy Star Products	67.7	52.76	1

**PERSON RESPONSIBLE:**

Thomas J. Wiles



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-002**

**REQUEST:**

Refer to page 6 of the Application. Explain whether the load impact information shown is reflected at the customer meter point or at the generation level.

**RESPONSE:**

The load impact information shown in the application is reflected at the customer meter point.

**PERSON RESPONSIBLE:**

Thomas J. Wiles



**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-003**

**REQUEST:**

Refer to page 8 of the Application and page 1 of Appendix B.

- a. Provide, by participant, a breakdown of the actual program expenditures of \$640,199 for the Residential Conservation and Energy Education program shown on page 1 of Appendix B for each type of customer incentive as defined in the following table:

	<u>Therm/ Square Foot</u>	<u>kWh use / Square Foot</u>	<u>Investment Allowed</u>
Tier 1	0<1 therm / ft2	0<7 kWh / ft2	Up to \$600
Tier 1	1 + therm / ft2	7 + kWh / ft2	All SIR * $\geq$ 1.5

\* SIR = Savings – Investment Ratio

- b. If applicable, provide a description of any charges included in the \$640,199 of actual program expenditures that are not customer incentives.

**RESPONSE:**

**a.**

	Average On-site Job Costs	Average Vendor Administration Costs
Tier 1 Per Participant	\$443	\$125
Tier 2 Per Participant	\$1,677	\$348

**b.**

		Res. Conservation & Energy Education
Company Labor	Program Incentives	\$ -
	Program Administration	\$ 13,280
	Program Evaluation	\$ -
Contract Labor	Program Incentives	\$ -
	Program Administration	\$ 457,081
	Program Evaluation	\$ -
	Direct Program Costs	\$ -
	Customer Incentives	\$ -
	Other	\$ 169,838
	Total	\$ 640,199

**PERSON RESPONSIBLE:** Rick Mifflin



**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-004**

**REQUEST:**

Refer to the last sentence on page 10 of the Application. Identify the time period to which the 400 kWh refers.

**RESPONSE:**

400kWh is the estimated annual kWh usage of the Energy Star rated refrigerator replacements

**PERSON RESPONSIBLE:** Rick Mifflin





**STAFF-DR-01-005**

**REQUEST:**

Refer to page 11 of the Application.

- a. Explain why, on average, nearly 50 percent more refrigerators were tested in the years 2008 through 2010 compared to the number tested in 2011 and why a greater percentage of the refrigerators tested were replaced in 2011 than in the previous years.
- b. Provide a description of the Energy Star qualified refrigerators that replace the refrigerators which were removed from homes and destroyed.
- c. Explain whether there was any change as to the kWh and Ccf impacts per participant resulting from the evaluation in Appendix C of the Application for the Residential Conservation and Energy Education program compared to the kWh and Ccf impacts per participant before the evaluation in Appendix C.

**RESPONSE:**

- a. Due to changes in program management by one of the vendors, refrigerator testing data was not consistently maintained. Therefore, all refrigerator testing data was unable to be reported to Duke Energy.

b.

<b>Manufacturer</b>	<b>Model Number</b>	<b>Height (in.)</b>	<b>Width (in.)</b>	<b>Depth w/o Door (in.)</b>	<b>Size (ft<sup>3</sup>) and Configuration (TF- top freezer, BF – bottom freezer, SS – side by side, CH – chest, UR – upright)</b>	<b>Energy Guide kWh Per Year</b>
Frigidaire	FFHT1513LW	59.5	28	26.75	TF15	355
Frigidaire	FFHT1826LW	66.25	30	30	TF18	383
Frigidaire	FFHT2126LW	68.25	30	31.75	TF21	407
GE	GTH21KBXWW	66.75	32.8	32.5	TF21	415
GE	GTH18EBCWW	67.38	28	32.38	TF18	311
GE	GTH17DBCWW	64.75	28	31	TF16.5	300

c. The evaluation in Appendix C reviewed processes and not impacts. Therefore, no changes were made to the kWh and Ccf impacts per participant.

**PERSON RESPONSIBLE:** Rick Mifflin



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-006**

**REQUEST:**

Refer to page 15 of the Application. During the 2010-2011 school year, 155 Home Energy Efficiency Kits were distributed in the Residential Comprehensive Energy Education program. Provide the number of Home Energy Efficiency Kits that have been distributed to date during the 2011-2012 school year.

**RESPONSE:**

Our tentative total is 223 kits distributed with the anticipation of additional sign-ups for the program in the Spring of 2012.

**PERSON RESPONSIBLE:** Rick Mifflin



**STAFF-DR-01-007**

**REQUEST:**

Refer to pages 17 and 18 and to Appendix B of the Application.

- a. For the filing period beginning in the fall of 2010, provide the number of participants that completed all three parts of the Payment Plus program.
- b. Explain whether any other type of expenditure is included in the \$97,444 of actual program expenditures show on page 1 of Appendix B other than expenditures for customer incentives.
- c. Explain how the control group of customers with similar arrearages and income is established and how those customers' incomes are determined.
- d. The Payment Plus Program is offered over the six winter months per year. Confirm whether it starts in August as stated in the first full paragraph on page 18.

**RESPONSE:**

- a. 42 participants completed all three parts of the Payment Plus Program.
- b. The \$97,444 of actual program expenditures includes the program administration fee to the vendor and internal Duke Energy overhead costs.
- c. Duke Energy utilizes an internal data query to identify customers for the Payment Plus program. The following conditions are used:
  - Residential Rate Schedule
  - Customer receives electric service from Duke Energy Kentucky
  - Customer account status is Active
  - Account arrearage is equal to or greater than \$500
  - LIHEAP assistance received within the past year

In order to receive LIHEAP assistance, customers must provide documentation that their income is at or below 130 percent of the federal poverty level.

- d. The statement should read six winter months per year starting in October. There has been no change to the delivery of this program. The month of August was inserted because that is when internal staff needs to begin preparation for the October implementation.

**PERSON RESPONSIBLE:** Rick Mifflin





**STAFF-DR-01-008**

**REQUEST:**

Refer to pages 19 and 20 and to Appendix B of the Application. On pages 19 and 20, Duke Kentucky states, “[g]iven our supply position in Kentucky, the Company did not actively promote Power Manager to our customers during the July 2010 through June 2011 fiscal year. Without directly marketing the program, 93 additional customers enrolled in Power Manager during the past fiscal year. However, through attrition, the net number of devices installed and available for an event declined by 265 devices. Although the number of devices declined during this period, our device replacement efforts have led to a net 1.3 MW increase in load reduction capability over the same twelve month period.”

- a. Provide a breakdown, by the type of cost, of the \$1,082,096 of actual program expenditures shown on page 1 of Appendix B.
- b. Provide the number of new customers and devices installed since July 1, 2011.
- c. Provide separately the numbers of customers who received the \$25 credit at installation and the \$35 credit at installation during fiscal year 2011.
- d. Explain whether there was any change as to the kWh and Ccf impacts per participant resulting from the evaluation in Appendix D of the Application for the Power Manager program compared to the kWh and Ccf impacts per participant before the evaluation in Appendix D.

**RESPONSE:**

- a. Provide a breakdown, by the type of cost, of the \$1,082,096 of actual program expenditures shown on page 1 of Appendix B.

		Power Manager
	Program Incentives	\$ -
Company Labor	Program Administration	\$ 28,696
	Program Evaluation	\$ -
	Program Incentives	\$ -
Contract Labor	Program Administration	\$ 323,521
	Program Evaluation	\$ -
	Direct Program Costs	\$ 396,183
	Customer Incentives	\$ 63,737
	Other	\$ 269,960
	Total	\$ 1,082,096

- b. Duke Energy Kentucky interprets this question to request the number of new customers and associated devices for those new customers installed from July 1, 2010 through December 31, 2011. As such, 18 customers and 18 devices were installed during this timeframe.
- c.
- 1.0 Option (\$25 credit) – 57  
1.5 Option (\$35 credit) – 36
- d. The Process Evaluation of the Kentucky Power Manager Program, Appendix D, does not review the 2011 impact M&V for the program. The review of the 2011 impacts of the program would be contained in the impact evaluation report. The impact evaluation report has not yet been completed. Duke Energy Kentucky will finish this report and forward it to TecMarket Works for review and comment. Therefore, there are no changes to the estimated impacts for this program as a result of the evaluation referenced.

**PERSON RESPONSIBLE:** a-c. Rick Mifflin  
d. Bruce Sailors



**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-009**

**REQUEST:**

Refer to the Energy Star Products program, pages 20 to 22.

- a. Given that incandescent bulbs are to be phased out by 2014, explain whether Duke Kentucky believes it should continue to spend resources on CFL bulbs or if replacement should be left to the customer.
- b. Explain whether there was any change as to the kWh and Ccf impacts per participant resulting from the evaluation in Appendices E and F of the Application for the Energy Star Products program compared to the kWh and Ccf impacts per participant before the evaluation in Appendices E and F.

**RESPONSE:**

- a. Although incandescent will phase out in 2014, we will continue to offer incentives for specialty bulbs applications. Incentive offers will focus on replacing high use incandescent specialty lights with energy efficient technology such as CFL and LED lamps (i.e. recessed, globes, candelabras, 3 Ways and dimmables).
- b. Ccf impacts were not evaluated in the report included as Appendix E or Appendix F of the Application. The KWh impacts are included in the table below:

<b>Program</b>	<b>Gross Annual KWh Impact Prior to Evaluation (per bulb)</b>	<b>Gross Annual KWh Impact After Evaluation (per bulb)</b>	<b># of Bulbs</b>
Energy Star Products	67.7	52.76	1

**PERSON RESPONSIBLE:** a. Rick Mifflin  
b. Thomas J. Wiles



**STAFF-DR-01-010**

**REQUEST:**

Refer to pages 22 and 23 of the Application, which contain discussion of the EE Website, On-line Energy Assessment and PER programs. As it relates to the EE Website and On-line Energy Assessment, Duke Kentucky states that, starting in July 2011, it stopped distributing the six free CFLs to avoid confusing this offer with the Energy Star Products promotion. As it relates to PER, Duke Kentucky stated that this is similar to the online EE Survey and CFL offer described in the EE Website, On-line Energy Assessment program, except that this program utilizes a mailed offer for those who do not have computer access or choose not to use the online programs.

- a. If Duke Kentucky believes the EE Website, On-line Energy Assessment program and PER programs are similar, explain why it believes customers will confuse the EE Website, On-line Energy Assessment program with the Energy Star Products program but not confuse the PER program with the Energy Star Products program.
- b. Explain how customers who have participated in the EE Website, On-line Energy Assessment program since July 2011, and did not receive CFLs, would have known that participants in the PER program received six CFL bulbs. Include in the response whether there was any sort of communication by Duke Kentucky to the EE Website, On-line Energy Assessment participants regarding the differences in the programs.
- c. Explain why Duke Kentucky is encouraging customers to not participate in the EE Website, On-line Energy Assessment program with the online EE Survey, and is encouraging customers to participate in the PER program mail-in offer.
- d. Explain whether Duke Kentucky believes that participation in the EE Website, On-line Energy Assessment program will decline in light of the fact participants no longer receive six CFLs.
- e. Explain whether there was any change as to the kWh and Ccf impacts per participant resulting for the evaluation in Appendix E of the Application for the EE Website, On-line Energy Assessment program compared to the kWh and Ccf impacts per participant before the evaluation in Appendix E.

**RESPONSE:**

- a. In July 2011, Duke Energy stopped the distribution of free CFLs from the EE Website, Online Energy Assessment and the PER program because these offers could cannibalize the Energy Star Products program. Duke Energy reinstituted the PER offer with the option to complete the survey online or in hardcopy format on June 1 to avoid overlap of the programs.
- b. The PER program is a targeted program to KY customers who meet the program criteria. Those customers who completed the online energy assessment without the CFL bulb incentive would not have been solicited (because they already completed a survey) and would have no way of knowing others received the CFL offer unless they spoke to neighbors, friend or family that did receive the PER offer.
- c. The Online Assessment program was a promotion that appeared on a customer's dashboard. We were not able to assess whether that customer was eligible for the offer or had participated before. So we used the targeted PER program offer to ensure customers were eligible and did not participate within 3 years. The PER hard copy mail-in offer did give KY customers the option to go online to complete the survey and in order to receive their bulbs they had to enter a promotion code at the end of the survey. This way we were able to identify them as an eligible customer. We also sent out reminder letters for those targeted customers who had not responded to go online and complete the survey with a promotion code.
- d. In customer research we found that the "carrot" was the free CFLs but the report provided great value as well. If we remove the "carrot" we expect not as many customers would be motivated to take the time to complete the survey to receive a personalized energy report versus receive free CFLs and a personalized energy report.
- e. Ccf impacts were not evaluated in the report included as Appendix E of the Application. The KWh impacts are included in the table below:

<b>Program</b>	<b>Gross Annual KWh Impact Prior to Evaluation (per bulb)</b>	<b>Gross Annual KWh Impact After Evaluation (per bulb)</b>	<b># of Bulbs</b>
Personalized Energy Report	67.7	52.76	6
Energy Efficient Website	67.7	52.76	6

**PERSON RESPONSIBLE:**

a,b,c,d - Casey Mather

e – Thomas J Wiles





**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-011**

**REQUEST:**

Refer to page 25 of the Application. Explain whether there was any change as to the kWh or Ccf impacts per participant resulting from the evaluation in Appendix E of the Application for the PER program compared to the kWh and Ccf impacts per participant before the evaluation in Appendix E.

**RESPONSE:**

Ccf impacts were not evaluated in the report included as Appendix E of the Application. The KWh impacts are included in the table below:

<b>Program</b>	<b>Gross Annual KWh Impact Prior to Evaluation (per bulb)</b>	<b>Gross Annual KWh Impact After Evaluation (per bulb)</b>	<b># of Bulbs</b>
Personalized Energy Report	67.7	52.76	6

**PERSON RESPONSIBLE:**

Thomas J. Wiles



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-012**

**REQUEST:**

Refer to page 31 of the Application, which indicates that, due to a change in vendors, it became necessary for QuoteOption customers to enroll in the Energy Profiler Online product, which carries a small monthly fee. Explain whether this monthly fee is reflected in any Duke Kentucky tariff on file at the Commission and, if not, whether Duke Kentucky believes it should not be tariffed.

**RESPONSE:**

The monthly fee is charged according to Duke Energy Kentucky's electric Rate MDC, Meter Data Charges, First Revised Sheet No. 101. Energy Profiler Online replaced En-Focus. Rate MDC, Meter Data Charges, First Revised Sheet No. 101 will be revised to reflect the change from En-Focus to Energy Profiler Online separately. Per Rate MDC, participating customers are charged \$20 per month for electronic monthly interval data.

**PERSON RESPONSIBLE:** Kevin Bright



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-013**

**REQUEST:**

Refer to page 35 of the Application where it states, “[l]ost revenues are computed using the applicable marginal block rate net of fuel costs and other variable costs times the estimated kWh savings for a three-year period from installation of the DSM measure.” Explain what is included in the “other variable costs.”

**RESPONSE:**

The term “other variable costs” refers to Variable O&M costs. An estimated Variable O&M rate of \$0.0019 per kWh is subtracted from the marginal block rate (along with subtracting fuel costs) to achieve the net rate.

**PERSON RESPONSIBLE:** James E. Ziolkowski



**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-014**

**REQUEST:**

Provide, in an electronic format with formulas unprotected, a breakdown of costs, both gas and electric, by program, of the Projected Program Costs shown in Appendix B, page 1, column 1, for July 2010 to June 2011 using the following format, including a narrative description of all "Other" costs:

<u>Description</u>	<u>Amount</u>
Company Labor –	
Program Implementation	
Program Administration	
Program Evaluation	
Contract Labor-	
Program Implementation	
Program Administration	
Program Evaluation	
Direct Program Costs	
Cunstomer Incentives	
Other	
Total	

**RESPONSE:** See STAFF-DR-01-14-ATTACHMENT

**PERSON RESPONSIBLE:** Richard Stevie



	Res.	Conservation & Energy Education	Refrigerator Replacement	Residential Home Energy House Call	Res. Comprehensive Energy Education	Payment Plus	Power Manager	Program Development Funds	Energy Star Products	Energy Efficiency Website	Personalized Energy Report Program	Residential SmartSaver	Home Energy Assistance Pilot Program (I)
Company Labor													
Program Incentives	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Program Administration	\$	10,368	\$	904	\$	14,633	\$	3,368	\$	-	\$	53,300	\$
Program Evaluation	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Program Incentives	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Program Administration	\$	356,840	\$	72,567	\$	48,882	\$	110,034	\$	261,604	\$	128,000	\$
Program Evaluation	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Direct Program Costs	\$	-	\$	-	\$	54,780	\$	173	\$	320,360	\$	-	\$
Customer Incentives	\$	-	\$	-	\$	2,366	\$	-	\$	51,538	\$	243,500	\$
Other	\$	132,592	\$	26,529	\$	20,986	\$	39,793	\$	218,294	\$	63,720	\$
Total	\$	499,800	\$	100,000	\$	150,000	\$	81,500	\$	150,000	\$	488,520	\$
													247,283

	High Efficiency Program	Development Funds	PowerShare®
Company Labor			
Program Implementation	\$	-	\$
Program Administration	\$	49,917	\$
Program Evaluation	\$	-	\$
Program Implementation	\$	-	\$
Program Administration	\$	60,150	\$
Program Evaluation	\$	-	\$
Direct Program Costs	\$	8,516	\$
Customer Incentives	\$	745,562	\$
Other	\$	39,627	\$
Total	\$	903,772	\$
			265,000

Note: Other is overhead costs not assigned to a specific product



**STAFF-DR-01-015**

**REQUEST:**

Provide, in an electronic format with formulas unprotected, a breakdown of lost revenues, both gas and electric, by program, of the Projected Lost Revenues shown in Appendix B, page 1, column 2, for July 2010 to June 2011 using the following formula:

Cumulative number of participants times kWh and/or Ccf  
impact per participant which equals total kWh and or Ccf  
impact times the lost revenue factor which equals the total  
lost revenues by program.

**RESPONSE:**

The values for projected lost revenues in Appendix B, page 1, column 2 for July 2010 to June 2011 are for electric lost revenues only. The Company has not projected gas lost revenues or sought recovery for gas lost revenues.

The projection of lost revenues is composed of two pieces. The first piece represents the projection of lost revenues for one year of incremental participants. This portion was taken from the Company's filing in Case No. 2004-00389. In that filing, the Company provided a projection of program costs, lost revenues, and shared savings for each program/measure as part of the application to implement additional energy efficiency programs. In order to stay consistent with the Commission's approval of that application, the information from that filing was used as the basis for projected lost revenues in all subsequent filings to update and reconcile the rider. There were no changes made to the lost revenue factor, the kWh impacts, or the number of expected participants.

In addition, the projection of lost revenues includes an estimate for the Residential Smart Saver program which was approved as part of Case No. 2010-00445. As a result, it uses more recent information on the lost revenue factor.

The second piece of the projected lost revenues includes an estimate of the number of prior participants in the program that qualify for recovery of lost revenues. The Company is allowed to collect lost revenues for a three year period. This second piece is

designed to provide an estimate of the lost revenue to complete the three year process of recovery.

One other consideration involves the High Efficiency Incentive Program for non-residential customers. Again, the original filing from 2004 was utilized to prepare the projections. However, the values were doubled in 2006 to accommodate the dramatic increase in participation experienced on roll-out of the program. A duplicate program was added for schools in 2007.

The attached file (Response to Staff DR 01-015.xls) contains the background information for development of the projected lost revenues.

**PERSON RESPONSIBLE:** Richard Stevie

[illegible]



**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-016**

**REQUEST:**

Provide, in an electronic format with formulas unprotected, a breakdown of shared savings, both gas and electric, by program, of the Projected Shared Savings shown in Appendix B, page 1, column 3, for July 2010 to June 2011 using the following formula:

Number of new participants times the utility's shared savings amount per participant which equals the total incentive amount.

**RESPONSE:**

The values for projected shared savings in Appendix B, page 1, column 3 for July 2010 to June 2011 are for electric impacts only. The Company has not projected gas shared savings for this filing.

The projection of shared savings was taken from the Company's filing in Case No. 2004-00389. In that filing, the Company provided a projection of program costs, lost revenues, and shared savings for each program/measure as part of the application to implement additional energy efficiency programs. In order to stay consistent with the Commission's approval of that application, the information from that filing was used as the basis for projected shared savings in all subsequent filings to update and reconcile the rider.

In addition, the projection of shared savings includes an estimate for the Residential Smart Saver program which was approved as part of Case No. 2010-00445.

The attached file (Response to Staff DR 01-016.xls) contains the background information for development of the projected shared savings.

**PERSON RESPONSIBLE:** Richard Stevie

Response to STAFF DE 01-016			
	<b>Residential Projected Shared Savings</b>		
	Number of	Shared Savings/Measure	Shared
<b>Residential - Programs/Measures</b>	Participants	or Participant	Savings
Residential Conservation & Energy Education	300	\$ (11.66)	\$ (3,499)
Refrigerator Replacement	50	\$ 6.00	\$ 300
Home Energy House Call	500	\$ 71.40	\$ 35,700
Residential Comprehensive Energy Education	NA	NA	NA
Home Energy Assistance Plus	NA	NA	NA
Power Manager	2,500	\$ 69.60	\$ 174,000
Energy Star Products (Total)	40,500	\$ 1.57	\$ 63,450
Energy Efficiency Web Site	1,830	\$ 1.62	\$ 2,955
Personalized Energy Report Pilot Program	9,000	\$ 8.13	\$ 73,134
Residential SmartSaver (Total)	1,265	\$ 42.55	\$ 53,822
Total Residential Projected Shared Savings			\$ 399,863
	<b>Non-Residential Projected Shared Savings</b>		
	Number of	Shared Savings/Measure	Shared
<b>Non-Residential - Programs/Measures</b>	Participants	or Participant	Savings
High Efficiency Program			
Lighting	7,178	\$ 0.75	\$ 5,349
HVAC	110	\$ 66.31	\$ 7,294
Motors	72	\$ 178.60	\$ 12,859
Other	2,238	\$ 100.27	\$ 224,415
High Efficiency School Incentive Program			
Lighting	7,178	\$ 0.75	\$ 5,349
HVAC	110	\$ 66.31	\$ 7,294
Motors	72	\$ 178.60	\$ 12,859
Other	2,238	\$ 100.27	\$ 224,415
Power Share	2	\$ 53,820	\$ 107,641
Total Non-Residential Projected Shared Savings			\$ 607,474
Total Projected Shared Savings			\$ 1,007,337





**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-017**

**REQUEST:**

Provide, in an electronic format with formulas unprotected, a breakdown of costs, both gas and electric, by program, of the Actual Program costs shown in Appendix B, page 1, column 4, for July 2010 to June 2011 using the same format as in the response to Item 15 of this request. Include a narrative description of all "Other" costs.

**RESPONSE:**

Please see Attachment STAFF-DR-01-017

**PERSON RESPONSIBLE:** David Doss

	Res.	Res.	Res.	Res.	Program	Energy	Personalized	Home Energy
	Conservation	Refrigerator	Home Energy	Comprehensive	Development	Efficiency	Energy Report	Assistance
	& Energy	Replacement	House Call	Energy/Education	Funds	Star	Program	Pilot Program
	Education			Payment Plus	Products	Website	Residential	(1)
				Power Manager			SmartSaver	
Company Labor	Program Incentives	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Program Administration	\$ 13,280	\$ 660	\$ 13,735	\$ 3,260	\$ 6,244	\$ 4,615	\$ -
	Program Evaluation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Program Incentives	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contract Labor	Program Administration	\$ 457,081	\$ 52,943	\$ 45,881	\$ -	\$ 137	\$ 2,574	\$ 33,913
	Program Evaluation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Direct Program Costs	\$ -	\$ -	\$ 4,041	\$ 53,019	\$ 67,537	\$ 15,442	\$ -
	Customer Incentives	\$ -	\$ -	\$ 54,383	\$ 2,290	\$ 21,529	\$ 3,900	\$ 226,086
		\$ 169,838	\$ 19,355	\$ 22,752	\$ 20,311	\$ 26,598	\$ 2,579	\$ -
Total	\$ 640,199	\$ 72,957	\$ 140,792	\$ 78,880	\$ 97,444	\$ 108,2096	\$ 13,667	\$ 259,999
	High Efficiency Program							
	Non-Res High	Program	Development	PowerShare®				
	Efficiency	Funds						
Company Labor	Program Implementation	\$ -	\$ -	\$ -				
	Program Administration	\$ 20,726	\$ -	\$ 24,996				
	Program Evaluation	\$ -	\$ -	\$ -				
	Program Implementation	\$ -	\$ -	\$ -				
Contract Labor	Program Administration	\$ 24,975	\$ -	\$ 9,323				
	Program Evaluation	\$ -	\$ 5,222	\$ -				
	Direct Program Costs	\$ 3,536	\$ -	\$ 937				
	Customer Incentives	\$ 309,563	\$ -	\$ 360,585				
		\$ 16,454	\$ -	\$ 11,187				
Total	\$ 375,253	\$ 5,222	\$ 407,028					

Note: Other is overhead costs not assigned to a specific product



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-018**

**REQUEST:**

Provide, in an electronic format with formulas unprotected, a breakdown of lost revenues, both gas and electric, by program, of the Actual Lost Revenues shown in Appendix B, page 1, column 7, for July 2010 to June 2011 using the following formula:

Cumulative number of participants times kWh and/or Ccf  
impact per participant which equals total kWh and/or Ccf  
impact times the lost revenue factor which equals the total  
lost revenues by program.

**RESPONSE:**

See attached CD containing file "STAFF-DR-01-018 Attachment.xls"

**PERSON RESPONSIBLE:** Thomas J. Wiles

Lost Revenue and Shared Savings Calculations

Residential	Lost Revenue	Shared Savings
Res. Conservation & Energy Education	\$ 17,893.70	\$ 640.20
Refrigerator Replacement	\$ 11,209.31	\$ (802.53)
Residential Home Energy House Call	\$ 23,202.96	\$ 2,111.86
Power Manager	\$ -	\$ 18,395.30
Energy Star Products	\$ 584,877.07	\$ 4,515.36
Energy Efficiency Website	\$ 10,792.47	\$ 287.01
Personalized Energy Report Program	\$ 185,757.53	\$ 25,117.92
Total	\$ 833,733.03	\$ 50,265.13

NonResidential	Lost Revenue	Shared Savings
High Efficiency Program		
Lighting	\$ 484,004.74	\$ 131,834.76
HVAC	\$ 38,202.42	\$ 26,012.08
Motors	\$ 17,313.53	\$ 12,892.37
Other	\$ 116,522.95	\$ 2,415.59
Total for High Efficiency Program	\$ 656,043.64	\$ 173,154.79
PowerShare®	\$ -	\$ 28,899.01

Residential Programs

Res. Conservation & Energy Education	2008 Incremental Participation	2008 Cumulative Participation	2005 3 Year Adj.	2009 Incremental Participation	2006 3 Year Adj.	2009 Cumulative Participation	2010 Incremental Participation	2007 3 Year Adj.	2010 Cumulative Participation	2011 Incremental Participation	2008 3 Year Adj.	2011 Cumulative Participation	2011 impacts kwh
Cumulative from prior year(s)	328		64	529			568			601			
July	23	351		17	13	533	9	22	555	10	23	588	72 7414
August	11	362		9	8	534	17	21	551	17	11	594	67 5060
September	14	376		19	4	549	-	15	536	19	14	599	51.1777
October	10	386		17	4	562	7	5	538	8	10	597	-
November	12	398		34	5	591	24	8	554	22	12	607	53 6454
December	94	492		29	9	611	90	28	616	22	94	535	75 3258
January	9	501		19	27	603	-	-	616	50	9	576	76 6503
February	22	523		7	33	577	-	15	601	28	22	582	62 6571
March	12	535		32	31	578	36	14	623	-	12	570	56 0781
April	12	547		22	20	580	7	12	618	7	12	565	-
May	28	575		11	14	577	-	18	600	29	28	566	46 8231
June	18	593		6	15	568	9	8	601	22	18	570	60.3951
Total													

Refrigerator Replacement	2008 Incremental Participation	2008 Cumulative Participation	2005 3 Year Adj.	2009 Incremental Participation	2006 3 Year Adj.	2009 Cumulative Participation	2010 Incremental Participation	2007 3 Year Adj.	2010 Cumulative Participation	2011 Incremental Participation	2008 3 Year Adj.	2011 Cumulative Participation	2011 impacts kwh
Cumulative from prior year(s)	89		21	153			168			216			
July	3	92		5	4	154	10	1	177	3	3	216	111 4121
August	2	94		8	2	160	2	2	177	6	2	220	103 3934
September	2	96		1	2	159	-	1	176	2	2	220	78 3847
October	25	121		10	2	167	5	2	179	26	25	221	66 3264
November	5	126		3	-	170	13	1	191	94	5	310	82 1643
December	18	144		16	1	185	32	5	218	(106)	18	186	115 3704
January	11	155		2	7	180	-	-	218	11	11	186	117 3990
February	3	158		6	8	178	-	12	206	-	3	183	95 9668
March	5	163		6	7	177	11	1	216	-	5	178	85 8903
April	1	164		2	8	171	7	11	212	12	1	189	66 4753
May	9	173		4	6	169	4	2	214	7	9	187	71 7151

June	1	174	3	4	168	8	6	216	21	1	207	92.5023
Total												

Residential Home Energy House Call

	2008 Incremental Participation	2008 Cumulative Participation	2005 3 Year Adj.	2009 Incremental Participation	2006 3 Year Adj.	2009 Cumulative Participation	2007 3 Year Adj.	2009 Participation Base for 2010	2008 3 Year Adj.	2009 Participation Base for 2011	2009 impacts per participant		2010 Incremental Participation
											kwh	kw	
Cumulative from prior year(s)	1,234		208	1,594				1,393		696			
July	54	1,288		2	43	1,553	14	1,379	54	642	44 0185	0 0600	47
August	89	1,377		2	26	1,529	2	1,377	89	553	40 8503	0 0600	39
September	-	1,377		5	35	1,499	61	1,316	-	553	30 9695	0 0600	46
October	7	1,384		48	46	1,501	112	1,204	7	546	-	-	76
November	21	1,405		15	20	1,496	34	1,170	21	525	32 4628	0 0600	41
December	11	1,416		43	36	1,503	57	1,113	11	514	45 5824	0 0600	-
January	62	1,478		69	120	1,452	83	1,030	62	452	46 3839	0.0600	38
February	74	1,552		47	156	1,343	35	995	74	378	37 9161	0 0600	37
March	75	1,627		46	77	1,312	72	923	75	303	33 9349	0 0600	45
April	83	1,710		41	37	1,316	76	847	83	220	-	-	33
May	67	1,777		41	5	1,352	81	766	67	153	28.3344	0 0600	43
June	25	1,802		46	5	1,393	70	696	25	128	36.5473	0.0600	37
Total													

Power Manager

	2011 Incremental Participation	2011 Cumulative Participation	UCT	2011		
				Cost/Part	SS Rate	SS
Cumulative from prior year(s)						
July	9,527	9,527	1 17	\$ 113 58	19 3086	\$ 18,395 30
August		9,527				-
September	-	9,527				-
October	-	9,527				-
November	-	9,527				-
December	-	9,527				-
January	-	9,527				-
February	-	9,527				-
March	-	9,527				-
April	-	9,527				-
May	-	9,527				-
June	-	9,527				-
Total						\$ 18,395 30

Energy Star Products

	2008 Incremental Participation	2008 Cumulative Participation	2009 Incremental Participation	2006 3 Year Adj.	2009 Cumulative Participation	2010 Incremental Participation	2007 3 Year Adj.	2010 Cumulative Participation	2008 3 Year Adj.	2010 Base for 2011	2011 Incremental Participation (First Half Filing Pd.)	2011 Cumulative Participation (First Half Filing Pd.)	2010 impacts
													kwh
Cumulative from prior year(s)	229,335		272,458			256,258				235,588	192,465		
July	2,733	232,068	1,457	-	273,915	15,401	1,617	270,042	2,733	232,855	20	192,485	5 1643
August	-	232,068	-	-	273,915	2,724	1,062	271,704	-	232,855	-	192,485	5 1601
September	44	232,112	-	-	273,915	443	-	272,147	44	232,811	-	192,485	5 0001
October	124	232,236	-	-	273,915	28	18,550	253,625	124	232,687	-	192,485	5 1597
November	18,152	250,388	-	13,817	260,098	2,496	21,661	234,460	18,152	214,535	-	192,485	5 0057
December	9,685	260,073	-	8,305	251,793	2,206	299	236,367	9,685	204,850	-	192,485	5.1646
January	7,201	267,274	3,702	1,969	253,526	1,794	2	238,159	7,201	197,649	-	192,485	5 1720
February	580	267,854	1,560	525	254,561	2,778	24	240,913	580	197,069	-	192,485	4 7127
March	566	268,420	3,078	-	257,639	932	4,853	236,992	566	196,503	-	192,485	5 1599
April	2,923	271,343	795	928	257,506	40	834	236,198	2,923	193,580	-	192,485	4 9931
May	-	271,343	93	878	256,721	40	-	236,238	-	193,580	-	192,485	5 1669

June	1,115	272,458	-	463	256,258	8	658	235,588	1,115	192,465	-	192,485	4.9933
Total													

Energy Efficiency Website

	2008 Incremental Participation	2008 Cumulative Participation	2009 Incremental Participation	2006 3 Year Adj.	2009 Cumulative Participation	2007 3 Year Adj.	2009 Participation Base for 2010	2008 3 Year Adj.	2009 Participation Base for 2011	2009 impacts per participant		2010 Incremental Participation	2010 Cumulative Participation
										kwh	kw		
Cumulative from prior year(s)	203		648			674			471				
July	5	208	13	-	661	-	674	5	466	26 2803	0 0619	-	-
August	5	213	9	-	670	-	674	5	461	24 3888	0 0591	-	-
September	81	294	4	-	674	-	674	81	380	18 4897	0 0520	-	-
October	47	341	-	-	674	15	659	47	333	-	-	-	-
November	40	381	-	-	674	28	631	40	293	19 3812	0 0435	-	-
December	57	438	-	-	674	96	535	57	236	27 2140	0 0594	-	-
January	25	463	-	-	674	25	510	25	211	27 6925	0 0546	-	-
February	50	513	-	-	674	17	493	50	161	22 6370	0 0492	-	-
March	37	550	-	-	674	9	484	37	124	20 2601	0 0443	83	83
April	27	577	-	-	674	7	477	27	97	-	-	37	120
May	45	622	-	-	674	5	472	45	52	16 9164	0 0405	90	210
June	26	648	-	-	674	1	471	26	26	21 8198	0 0585	104	314
Total													

Personalized Energy Report Program	2010 Incremental Participation	2010 Cumulative Participation	2011 Incremental Participation (First Half Filing Pd.)	2011 Cumulative Participation (First Half Filing Pd.)	2011 impacts per participant (First Half Filing Pd )		2011 Incremental Participation (Second Half Filing Pd.)	2011 Cumulative Participation (Second Half Filing Pd.)	2011 impacts per participant (Second Half Filing Pd )		LR Rate	UCT	2011 Cost/Part
					kwh	kw			kwh	kw			
Cumulative from prior year(s)				7010									
July	0	0	2456	9466	30 9861	0 0786	0	0	22 8421	0 0379	0 0497	3 77	\$ 26 82
August	0	0	214	9680	30 9605	0 0654	0	0	22 8653	0 0315			
September	0	0	588	10268	30 0007	0 0684	0	0	22 0924	0 0299			
October	0	0	78	10346	30 9580	0 0735	0	0	22 8676	0 0340			
November	0	0	23	10369	30 0339	0 0799	0	0	22 0622	0 0471			
December	0	0	13	10382	30 9873	0 0730	0	0	22 8410	0 0320			
January	0	0	0	10382	31 0320	0 0659	3	3	22 8004	0 0317			
February	0	0	0	10382	28 2761	0 0785	0	3	20 8179	0 0559			
March	0	0	0	10382	30 9592	0 0852	0	3	22 8665	0 0370			
April	0	0	0	10382	29 9586	0 0885	0	3	22 1306	0 0385			
May	0	0	0	10382	31 0014	0 0682	2	5	22 8282	0 0291			
June	7010	7010	0	10382	29 9598	0 0718	4	9	22 1295	0 0312			
Total													

NonResidential Programs

High Efficiency Program - Lighting

	2007 3 Year Adj.	2007 Participation Base for 2010	2007 impact per participant kwh	kw	2008 Participation Base for 2010	2008 3 Year Adj.	2008 Participation Base for 2011	2008 impacts per participant kwh	kw	2009 Participation Base for 2011	2009 impacts per participant kwh	kw	2010 Incremental Participation
Cumulative from prior year(s)		12742					24,777						
July	2,348	10,394	24 3193	0 0792	24,777	554	24,223	57 2242	0 1732	28,580	49 5488	0 1066	9,460
August	545	9,849	24 3193	0 0845	24,777	1,861	22,362	57 2242	0 1732	28,580	49 5488	0 1039	334
September	3,239	6,610	23 4098	0 0867	24,777	94	22,268	55 4010	0 1733	28,580	47 8965	0 1089	-
October	415	6,195	24 1902	0 0631	24,777	754	21,514	57 2478	0 1733	28,580	49 4931	0 1162	84
November	643	5,552	23 4098	0 0867	24,777	884	20,630	55 4010	0 1733	28,580	47 8965	0 0939	414
December	322	5,230	24 1902	0 0867	24,777	16,538	4,092	57 2478	0 1733	28,580	49 4931	0 0939	1,447
January	-	5,230	24 1902	0 0867	24,777	630	3,462	57 2478	0 1733	28,580	49 4931	0 1035	5,573
February	-	5,230	22 0620	0 0788	24,777	560	2,902	52 2113	0 1733	28,580	45 1388	0 1119	(266)
March	361	4,869	24 1902	0 0841	24,777	2,003	899	57 2478	0 1733	28,580	49 4931	0 1102	5,462
April	68	4,801	23 4098	0 0867	24,777	-	899	55 4010	0 1733	28,580	47 8965	0 1024	897



May	1,369	3,432	24.1902	0.0578	24,777	718	181	57.2478	0.1733	28,580	49.4931	0.1279	34
June	3,432	-	23.4098	0.0841	24,777	181	-	55.4010	0.1733	28,580	47.8965	0.1039	1,322
Total													

High Efficiency Program - HVAC	2007 Participation		2007 impacts per participant		2008 Participation		2008 impacts per participant		2009 Base		2009 impacts per participant		2010 Incremental Participation
	2007 3 Year Adj.	Base for 2010	kwh	kw	Base for 2010	2008 3 Year Adj.	Base for 2011	kwh	kw	Participation for 2011	kwh	kw	
Cumulative from prior year(s)		20					19						
July	-	20	187 7823	1 0986	19	3	16	706 2701	1 0171	86	4,383 6603	4 1345	2
August	-	20	190 0501	1 0986	19	-	16	712 6475	1 0171	86	4,423 2433	4 1961	-
September	-	20	162 1511	1 0986	19	-	16	612 2457	1 0171	86	3,800 0722	-	6
October	4	16	-	-	19	8	8	-	-	86	302 6954	-	2
November	-	16	-	-	19	4	4	-	-	86	290 9790	-	-
December	-	16	-	-	19	-	4	-	-	86	325 3335	-	-
January	-	16	-	-	19	-	4	-	-	86	328 1290	-	41
February	-	16	-	-	19	-	4	-	-	86	289 6480	-	26
March	13	3	-	-	19	-	4	-	-	86	299 5308	-	1
April	-	3	-	-	19	-	4	-	-	86	280 8771	-	-
May	3	-	158 7308	1 0986	19	1	3	-	-	86	3,685 9052	-	1
June	-	-	173.7557	1.0986	19	3	-	651.9371	1.0171	86	4,046.4274	3.9908	10
Total													

High Efficiency Program - Motors	2009 Base													
	2007 3 Year Adj.	2007 Participation Base for 2010	2007 impacts per participant kwh	kw	2008 Participation Base for 2010	2008 3 Year Adj.	2008 Participation Base for 2011	2008 impacts per participant kwh	kw	Participation for 2011	2009 impacts per participant kwh	kw	2010 Incremental Participation	
Cumulative from prior year(s)		4					4							
July	-	4	113.8301	0.2610	4	-	4	39.4810	0.1254	11	4,471.4196	7.4571	-	
August	-	4	115.2048	0.2610	4	-	4	39.4810	0.1592	11	4,511.7951	7.4571	-	
September	-	4	98.2930	0.2610	4	-	4	37.9641	0.1582	11	3,876.1483	7.4571	10	
October	4	-	93.6397	0.2610	4	4	-	39.2295	0.0288	11	3,715.7886	7.4571	-	
November	-	-	90.1390	0.2610	4	-	-	37.9641	0.1582	11	3,571.9624	7.4571	-	
December	-	-	100.7304	0.2610	4	-	-	39.2295	0.1582	11	3,996.9345	7.4571	-	
January	-	-	101.4460	0.2610	4	-	-	39.2295	0.2820	11	4,028.0038	7.4571	-	
February	-	-	89.8035	0.2610	4	-	-	35.7783	0.2563	11	3,555.6238	7.4571	1	
March	-	-	93.2291	0.2610	4	-	-	39.2295	0.2734	11	3,676.9414	7.4571	5	
April	-	-	87.1372	0.2610	4	-	-	37.9641	0.2820	11	3,447.9556	7.4571	-	
May	-	-	96.2196	0.2610	4	-	-	39.2295	0.1794	11	3,759.6958	7.4571	2	
June	-	-	105.3274	0.2610	4	-	-	37.9641	0.2820	11	4,127.4355	7.4571	-	
Total														

High Efficiency Program - Other (Total)

see row 230 and below for detail	LR	SS
Cumulative from prior year(s)		
July		
August		
September		
October		
November		
December		
January		
February		
March		
April		
May		
June		
Total	\$ 116,522.95	\$ 2,415.59

[illegible][illegible]

High Efficiency Program - Other (Custom for Schools) Customer 2 (2008-2009)	2009 Base	2009 impacts per participant			2011		Total Impacts		
	Participation for 2011	kwh	kw	LR Rate	UCT	Cost/Part	kwh	kw	LR
Cumulative from prior year(s)									
July	1	1,432.4552	5.8356	0.0165	2.72	\$ 4,911.00	1,432	6	\$ 23.59
August	1	1,461.7766	5.9020				1,462	6	\$ 24.07
September	1	1,369.9311	6.0611				1,370	6	\$ 22.56
October	1	1,464.7087	5.5044				1,465	6	\$ 24.12
November	1	1,331.8133	5.7169				1,332	6	\$ 21.93
December	1	1,430.9891	5.6022				1,431	6	\$ 23.57
January	1	1,379.6768	4.1839				1,380	4	\$ 22.72
February	1	1,287.9242	5.6936				1,288	6	\$ 21.21
March	1	1,463.2426	5.4452				1,463	5	\$ 24.10
April	1	1,418.3113	6.0514				1,418	6	\$ 23.36
May	1	1,414.8624	6.0802				1,415	6	\$ 23.30
June	1	1,416.8452	5.8901				1,417	6	\$ 23.33
Total									\$ 277.86

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant				2011		Total Impacts			
Customer 3 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	
Cumulative from prior year(s)			1										
July	-	-	1	10,756 9142	13 8766		0 0165	3 76 \$	25,896 32	71,565 2685	10,757	13 8766 \$	177.14
August	-	-	1	10,324 2044	13 8766						10,324	13 8766 \$	170 02
September	-	-	1	9,991 1656	13 8766						9,991	13 8766 \$	164 53
October	-	-	1	10,324 2044	13 8766						10,324	13 8766 \$	170 02
November	-	-	1	9,991 1656	13 8766						9,991	13 8766 \$	164 53
December	-	-	1	10,324 2044	13 8766						10,324	13 8766 \$	170 02
January	-	-	1	10,324 2044	13 8766						10,324	13 8766 \$	170 02
February	-	-	1	9,415 9166	13 8766						9,416	13 8766 \$	155 06
March	1	1	1	10,324 2044	13 8766						10,324	13 8766 \$	170 02
April	-	1	1	9,991 1656	13 8766						9,991	13 8766 \$	164 53
May	-	1	1	10,324 2044	13 8766						10,324	13 8766 \$	170 02
June	-	1	1	9,991.1656	13.8766						9,991	13.8766 \$	164.53
Total													\$ 2,010 46

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant				2011		Total Impacts			
Customer 4 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	
Cumulative from prior year(s)			1										
July	-	-	1	-	-		0 0165	4.06	\$ 320.79	980 2100	-	-	\$ -
August	-	-	1	-	-						-	-	\$ -
September	-	-	1	-	9 0250						-	9 0250	\$ -
October	-	-	1	-	9 0250						-	9 0250	\$ -
November	-	-	1	-	9 0250						-	9 0250	\$ -
December	-	-	1	-	9 0250						-	9 0250	\$ -
January	-	-	1	(0.0000)	4.6492						(0)	4.6492	\$ (0.00)
February	-	-	1	0.0000	9 0250						0	9 0250	\$ 0.00
March	1	1	1	-	9 0250						-	9 0250	\$ -
April	-	1	1	-	9 0250						-	9 0250	\$ -
May	-	1	1	-	9 0250						-	9 0250	\$ -
June	-	1	1	-	-						-	-	\$ -
													\$

High Efficiency Program - Other (Custom for Schools)      2010 Incremental      2010 Cumulative      2010 impacts per participant      2011      Total Impacts

Customer 5 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	1,532.1263	2 9079	0 0165		3 83 \$	2,939 04	8,325.7235	1,532	2 9079 \$ 25 23
August	-	-	1	1,565 3568	3 1000						1,565	3.1000 \$ 25 78
September	-	-	1	2,024 8627	4 6582						2,025	4 6582 \$ 33 35
October	-	-	1	2,748 0122	6 3270						2,748	6 3270 \$ 45 25
November	-	-	1	2,150 8526	4 2714						2,151	4 2714 \$ 35 42
December	-	-	1	2,755 1404	5 1813						2,755	5 1813 \$ 45 37
January	-	-	1	3,835 3773	6 6991						3,835	6 6991 \$ 63 16
February	-	-	1	4,310 2880	8 3447						4,310	8 3447 \$ 70 98
March	1	1	1	2,628 0741	5 1216						2,628	5 1216 \$ 43 28
April	-	1	1	2,039 0572	4 3721						2,039	4 3721 \$ 33 58
May	-	1	1	1,386 5501	3 0505						1,387	3 0505 \$ 22 83
June	-	1	1	1,205.1025	2.4723						1,205	2.4723 \$ 19.85
												\$ 464 08

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant				2011		Total Impacts		
Customer 6 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	509 4655	0 9669	0 0165		3 85 \$	606 98	1,728.7756	509	0 9669 \$ 8 39
August	-	-	1	504 6559	0 9994						505	0 9994 \$ 8 31
September	-	-	1	620 7270	1 4280						621	1 4280 \$ 10 22
October	-	-	1	502 6893	1 1574						503	1 1574 \$ 8 28
November	-	-	1	402 4327	0 7992						402	0 7992 \$ 6 63
December	-	-	1	411 7665	0 7744						412	0 7744 \$ 6 78
January	-	-	1	416 5352	0 7275						417	0 7275 \$ 6 86
February	-	-	1	379 8828	0 7355						380	0 7355 \$ 6 26
March	1	1	1	398 9274	0 7774						399	0 7774 \$ 6 57
April	-	1	1	389 2777	0 8347						389	0 8347 \$ 6 41
May	-	1	1	500.1826	1 1004						500	1 1004 \$ 8 24
June	-	1	1	460.1574	0.9440						460	0.9440 \$ 7.58
												\$ 90 52

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant				2011		Total Impacts		
Customer 7 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	-	-	0 0165		3 92 \$	5,058 13	14,745 5146	-	- \$ -
August	-	-	1	-	-						-	- \$ -
September	-	-	1	-	-						-	- \$ -
October	-	-	1	-	-						-	- \$ -
November	-	-	1	25,949 7402	154 9387						25,950	154 9387 \$ 427 34
December	-	-	1	-	-						-	- \$ -
January	-	-	1	-	-						-	- \$ -
February	-	-	1	-	-						-	- \$ -
March	-	-	1	29,188 4598	124 9506						29,188	124 9506 \$ 480 68
April	-	-	1	-	-						-	- \$ -
May	1	1	1	-	-						-	- \$ -
June	-	1	1	-	-						-	- \$ -
												\$ 908 02

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant				2011		Total Impacts		
Customer 8 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	412.0603	0 7821	0 0165		3 85 \$	758 72	2,162 18	412	0 7821 \$ 6 79

August	-	-	1	498 4870	0 9872					498	0 9872	\$	8 21
September	-	-	1	619 1630	1 4244					619	1 4244	\$	10 20
October	-	-	1	515 1609	1 1861					515	1 1861	\$	8 48
November	-	-	1	574 0740	1 1401					574	1 1401	\$	9 45
December	-	-	1	738 4672	1 3888					738	1 3888	\$	12 16
January	-	-	1	927 3559	1 6198					927	1 6198	\$	15 27
February	-	-	1	850 2559	1 6461					850	1 6461	\$	14 00
March	1	1	1	661 0292	1 2882					661	1 2882	\$	10 89
April	-	1	1	503 4093	1 0794					503	1 0794	\$	8 29
May	-	1	1	573 3279	1 2614					573	1 2614	\$	9 44
June	-	1	1	492.5594	1.0105					493	1.0105	\$	8.11
												\$	121.29

High Efficiency Program - Other (Custom for Schools) Customer 9 (2009-2010)	2010 Incremental Participation	2010 Cumulative Participation	2010 Base for 2011	2010 impacts per participant				2011		Total Impacts			
				kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	
Cumulative from prior year(s)			1										
July	-	-	1	1,281 7823	2 4327	0.0165		2.24 \$	3,141.37	3,889 9621	1,282	2 4327	\$ 21 11
August	-	-	1	1,341 1507	2 6560						1,341	2 6560	\$ 22 09
September	-	-	1	1,901 6660	4 3748						1,902	4 3748	\$ 31 32
October	-	-	1	1,475 2046	3 3965						1,475	3 3965	\$ 24 29
November	-	-	1	1,496 9474	2 9728						1,497	2 9728	\$ 24 65
December	-	-	1	1,359 2055	2 5561						1,359	2 5561	\$ 22 38
January	-	-	1	1,289 6332	2 2526						1,290	2 2526	\$ 21 24
February	-	-	1	1,214 9702	2 3522						1,215	2 3522	\$ 20 01
March	1	1	1	1,445 7467	2 8175						1,446	2 8175	\$ 23 81
April	-	1	1	1,520 4097	3 2601						1,520	3 2601	\$ 25 04
May	-	1	1	1,671 9981	3 6785						1,672	3 6785	\$ 27 53
June	-	1	1	1,797.6356	3.6880						1,798	3.6880	\$ 29 60
												\$	293 07

High Efficiency Program - Other (Custom for Schools) Customer 10 (2009-2010)	2010 Incremental Participation	2010 Cumulative Participation	2010 Base for 2011	2010 impacts per participant				2011		Total Impacts			
				kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	
Cumulative from prior year(s)			1										
July	-	-	1	162 1444	0 3077	0.0165		3.89 \$	263.56	762 5802	162	0 3077	\$ 2 67
August	-	-	1	191 1177	0 3785						191	0 3785	\$ 3 15
September	-	-	1	267 4482	0 6153						267	0 6153	\$ 4 40
October	-	-	1	213.9256	0 4925						214	0 4925	\$ 3 52
November	-	-	1	207 0427	0 4112						207	0 4112	\$ 3 41
December	-	-	1	235 6100	0 4431						236	0 4431	\$ 3 88
January	-	-	1	244 1049	0 4264						244	0 4264	\$ 4 02
February	-	-	1	248 7112	0 4815						249	0 4815	\$ 4 10
March	1	1	1	228 1034	0 4445						228	0 4445	\$ 3 76
April	-	1	1	196 8241	0 4220						197	0 4220	\$ 3 24
May	-	1	1	243 7755	0 5363						244	0 5363	\$ 4 01
June	-	1	1	236.3924	0.4850						236	0.4850	\$ 3 89
												\$	44 06

High Efficiency Program - Other (Custom for Schools) Customer 11 (2009-2010)	2010 Incremental Participation	2010 Cumulative Participation	2010 Base for 2011	2010 impacts per participant				2011		Total Impacts			
				kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	
Cumulative from prior year(s)			1										
July	-	-	1	529 9807	1 0059	0.0165		3.89 \$	753.40	2,175 2669	530	1 0059	\$ 8 73
August	-	-	1	613 1941	1 2143						613	1 2143	\$ 10 10
September	-	-	1	770 3329	1 7721						770	1 7721	\$ 12 69
October	-	-	1	595 1187	1 3702						595	1 3702	\$ 9 80

November	-	-	1	528 4123	1 0494					528	1.0494	\$	8 70
December	-	-	1	603 3611	1 1347					603	1.1347	\$	9 94
January	-	-	1	657 4092	1 1483					657	1.1483	\$	10 83
February	-	-	1	552 4164	1 0695					552	1.0695	\$	9 10
March	1	1	1	617 3431	1 2031					617	1.2031	\$	10 17
April	-	1	1	505 0645	1 0830					505	1.0830	\$	8 32
May	-	1	1	760 1551	1 6724					760	1.6724	\$	12 52
June	-	1	1	640.2571	1.3135					640	1.3135	\$	10.54
												\$	121 42

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant					2011		Total Impacts		
Customer 12 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT		Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1										
July	-	-	1	47 1943	0 0896		0.0165		3 71	\$ 1,763 69	4,784 1652	47	0 0896 \$ 0 78
August	-	-	1	50 5414	0 1001							51	0 1001 \$ 0 83
September	-	-	1	66 2728	0 1525							66	0 1525 \$ 1 09
October	-	-	1	122 1696	0 2813							122	0 2813 \$ 2 01
November	-	-	1	134 2192	0 2665							134	0 2665 \$ 2 21
December	-	-	1	2,609 0732	4 9066							2,609	4 9066 \$ 42 97
January	-	-	1	3,473 6320	6 0673							3,474	6 0673 \$ 57 20
February	-	-	1	2,392 8498	4 6326							2,393	4 6326 \$ 39 41
March	1	1	1	2,642 8790	5 1505							2,643	5 1505 \$ 43 52
April	-	1	1	2,071 8619	4 4425							2,072	4 4425 \$ 34 12
May	-	1	1	1,678 2416	3 6923							1,678	3 6923 \$ 27 64
June	-	1	1	1,558.0803	3.1965							1,558	3.1965 \$ 25.66
												\$	277 44

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant					2011		Total Impacts		
Customer 13 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT		Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1										
July	-	-	1	262 5554	0 4983		0.0165		3 89	\$ 380 69	1,099 1558	263	0 4983 \$ 4 32
August	-	-	1	279 2550	0 5530							279	0 5530 \$ 4 60
September	-	-	1	418 2133	0 9621							418	0 9621 \$ 6 89
October	-	-	1	353 4047	0 8137							353	0 8137 \$ 5 82
November	-	-	1	290 2603	0 5764							290	0 5764 \$ 4 78
December	-	-	1	295 3107	0 5554							295	0 5554 \$ 4 86
January	-	-	1	311 9234	0 5448							312	0 5448 \$ 5 14
February	-	-	1	251 4561	0 4868							251	0 4868 \$ 4 14
March	1	1	1	283 6108	0 5527							284	0 5527 \$ 4 67
April	-	1	1	301 7647	0 6470							302	0 6470 \$ 4 97
May	-	1	1	355 3510	0 7818							355	0 7818 \$ 5 85
June	-	1	1	369.3445	0.7577							369	0.7577 \$ 6.08
												\$	62 12

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant					2011		Total Impacts		
Customer 14 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT		Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1										
July	-	-	1	23,367 9716	44 3510		0.0165		50 77	\$ 1,597 31	79,499 5637	23,368	44 3510 \$ 384 82
August	-	-	1	24,156 7789	47 8390							24,157	47 8390 \$ 397 81
September	-	-	1	21,336 1251	49 0835							21,336	49 0835 \$ 351 36
October	-	-	1	19,928 8384	45 8840							19,929	45 8840 \$ 328 19
November	-	-	1	-	-							-	- \$ -
December	-	-	1	-	-							-	- \$ -
January	-	-	1	-	-							-	- \$ -

February	-	-	1	-	-			-	-	\$	-
March	1	1	1	20,469 3942	39 8909			20,469	39 8909	\$	337 09
April	-	1	1	19,205 3201	41 1799			19,205	41 1799	\$	316 27
May	-	1	1	20,928 9510	46 0453			20,929	46 0453	\$	344 66
June	-	1	1	21,474.5707	44.0563			21,475	44.0563	\$	353.64
										\$	2,813.85

High Efficiency Program - Other (Custom for Schools)	2010 Incremental Participation	2010 Cumulative Participation	2010 Base for 2011	2010 impacts per participant				2011 Cost/Part	SS Rate	Total Impacts		
Customer 15 (2009-2010)				kwh	kw	LR Rate	UCT			kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	24,224 9142	29 0195	0.0165		3.66 \$	57,649 43	153,580.7892	24,225	29 0195 \$ 398.94
August	-	-	1	21,590 5192	29 0195						21,591	29 0195 \$ 355.55
September	-	-	1	20,894 0508	29 0195						20,894	29 0195 \$ 344.08
October	-	-	1	21,590 5192	29 0195						21,591	29 0195 \$ 355.55
November	-	-	1	20,894 0508	29 0195						20,894	29 0195 \$ 344.08
December	-	-	1	21,590 5192	29 0195						21,591	29 0195 \$ 355.55
January	-	-	1	21,590 5192	29 0195						21,591	29 0195 \$ 355.55
February	-	-	1	19,691 0600	29 0195						19,691	29 0195 \$ 324.27
March	1	1	1	21,590 5192	29 0195						21,591	29 0195 \$ 355.55
April	-	1	1	20,894 0508	29 0195						20,894	29 0195 \$ 344.08
May	-	1	1	21,590 5192	29 0195						21,591	29 0195 \$ 355.55
June	-	1	1	20,894.0508	29.0195						20,894	29.0195 \$ 344.08
											\$	4,232.86

High Efficiency Program - Other (Custom for Schools)	2010 Incremental Participation	2010 Cumulative Participation	2010 Base for 2011	2010 impacts per participant				2011 Cost/Part	SS Rate	Total Impacts		
Customer 16 (2009-2010)				kwh	kw	LR Rate	UCT			kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	32,335 7138	-	0.0165		3.99 \$	27,529 57	82,300.2056	32,336	- \$ 532.50
August	-	-	1	32,335 7138	-						32,336	- \$ 532.50
September	-	-	1	31,292.6262	-						31,293	- \$ 515.33
October	-	-	1	32,335 7138	-						32,336	- \$ 532.50
November	-	-	1	31,292 6262	-						31,293	- \$ 515.33
December	-	-	1	32,335 7138	-						32,336	- \$ 532.50
January	-	-	1	32,335 7138	23 7065						32,336	23 7065 \$ 532.50
February	-	-	1	29,490 9296	-						29,491	- \$ 485.66
March	1	1	1	32,335 7138	-						32,336	- \$ 532.50
April	-	1	1	31,292 6262	-						31,293	- \$ 515.33
May	-	1	1	32,335 7138	-						32,336	- \$ 532.50
June	-	1	1	31,292.6262	-						31,293	- \$ 515.33
											\$	6,274.50

High Efficiency Program - Other (Custom for Schools)	2010 Incremental Participation	2010 Cumulative Participation	2010 Base for 2011	2010 impacts per participant				2011 Cost/Part	SS Rate	Total Impacts		
Customer 17 (2009-2010)				kwh	kw	LR Rate	UCT			kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	1,903 3912	3 6125	0.0165		3.88 \$	4,823 86	13,891.9547	1,903	3.6125 \$ 31.35
August	-	-	1	2,326 3670	4 6070						2,326	4.6070 \$ 38.31
September	-	-	1	5,005 2139	11 5144						5,005	11.5144 \$ 82.43
October	-	-	1	4,511 7421	10 3878						4,512	10.3878 \$ 74.30
November	-	-	1	5,146 2058	10.2199						5,146	10.2199 \$ 84.75
December	-	-	1	5,075 7098	9.5454						5,076	9.5454 \$ 83.59
January	-	-	1	5,075 7098	8 8656						5,076	8.8656 \$ 83.59
February	-	-	1	4,300 2542	8 3253						4,300	8.3253 \$ 70.82
March	1	1	1	5,146 2058	10 0290						5,146	10.0290 \$ 84.75
April	-	1	1	4,511 7421	9 6741						4,512	9.6741 \$ 74.30

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High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative	2010 impacts per participant				2011			Total Impacts			
Customer 21 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	
Cumulative from prior year(s)			1										
July	-	-	1	1,298 0149	2 4636	0 0165		3 87 \$	1,731.75	4,978 3512	1,298	2 4636 \$	21 38
August	-	-	1	1,091 3893	2 1613						1,091	2 1613 \$	17 97
September	-	-	1	1,493 9830	3 4369						1,494	3 4369 \$	24.60
October	-	-	1	1,276 9429	2 9400						1,277	2 9400 \$	21.03
November	-	-	1	1,177 9212	2 3392						1,178	2 3392 \$	19.40
December	-	-	1	1,276 3446	2 4003						1,276	2 4003 \$	21.02
January	-	-	1	1,268 4355	2 2155						1,268	2 2155 \$	20 89
February	-	-	1	1,118 8559	2 1661						1,119	2 1661 \$	18 43
March	1	1	1	1,331 2590	2 5944						1,331	2 5944 \$	21 92
April	-	1	1	1,160 7382	2 4888						1,161	2 4888 \$	19 12
May	-	1	1	2,808 1338	6 1781						2,808	6 1781 \$	46 24
June	-	1	1	1,458.8318	2.9929						1,459	2.9929 \$	24.02
												\$	276 02

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative	2010 impacts per participant				2011		Total Impacts				
Customer 22 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	
Cumulative from prior year(s)			1										
July	-	-	1	-	-		0 0165	4 06 \$	320 79	980 2100	-	- \$	
August	-	-	1	-	-						-	- \$	
September	-	-	1	-	9 0250						-	9 0250 \$	
October	-	-	1	-	9 0250						-	9 0250 \$	
November	-	-	1	-	9 0250						-	9 0250 \$	
December	-	-	1	-	9 0250						-	9 0250 \$	
January	-	-	1	-	4 6492						-	4 6492 \$	
February	-	-	1	-	9 0250						-	9 0250 \$	
March	1	1	1	-	9 0250						-	9 0250 \$	
April	-	1	1	0 0000	9 0250						0	9 0250 \$	
May	-	1	1	-	9 0250						-	9 0250 \$	
June	-	1	1	-	-						-	- \$	
												\$	0 00

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant				2011		Total Impacts			
Customer 23 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	
Cumulative from prior year(s)			1										
July	-	-	1	640 1387	1 2149	0 0165		3 83 \$	1,416.28	4,008 4998	640	1 2149 \$	10 54
August	-	-	1	656 1329	1 2994						656	1 2994 \$	10 81
September	-	-	1	1,130 3413	2 6003						1,130	2 6003 \$	18 61
October	-	-	1	1,017 9115	2 3436						1,018	2 3436 \$	16 76
November	-	-	1	1,045 5573	2 0764						1,046	2 0764 \$	17 22
December	-	-	1	1,467 9103	2 7606						1,468	2 7606 \$	24 17
January	-	-	1	1,864 2628	3 2562						1,864	3 2562 \$	30 70
February	-	-	1	1,856 1594	3 5935						1,856	3 5935 \$	30 57
March	1	1	1	1,343 4037	2 6180						1,343	2 6180 \$	22 12
April	-	1	1	999 0744	2 1422						999	2 1422 \$	16 45
May	-	1	1	981 3789	2 1591						981	2 1591 \$	16 16
June	-	1	1	855 8538	1 7558						856	1 7558 \$	14 09
												\$	228 22

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant					2011		Total Impacts	
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Customer 24 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	-	28 5000	0 0165	3 57	\$ 8,621 46	22,171 7100	-	28 5000	\$ -
August	-	-	1	-	28 5000					-	28 5000	\$ -
September	-	-	1	-	28 5000					-	28 5000	\$ -
October	-	-	1	-	28 5000					-	28 5000	\$ -
November	-	-	1	-	28 5000					-	28 5000	\$ -
December	-	-	1	-	28 5000					-	28 5000	\$ -
January	-	-	1	-	14 6818					-	14 6818	\$ -
February	-	-	1	-	28 5000					-	28 5000	\$ -
March	1	1	1	-	28 5000					-	28 5000	\$ -
April	-	1	1	-	28 5000					-	28 5000	\$ -
May	-	1	1	(0 0000)	28 5000					(0)	28 5000	\$ (0 00)
June	-	1	1	-	28 5000					-	28 5000	\$ -
												\$ (0 00)

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant				2011		Total Impacts		
Customer 25 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	534 5774	1 0146	0 0165	3 86	\$ 1,051 56	3,003 3077	535	1 0146	\$ 8.80
August	-	-	1	641 4929	1 2704					641	1 2704	\$ 10 56
September	-	-	1	1,107 7632	2 5484					1,108	2 5484	\$ 18 24
October	-	-	1	902 8418	2 0787					903	2 0787	\$ 14 87
November	-	-	1	798 8962	1 5865					799	1 5865	\$ 13 16
December	-	-	1	925 8163	1 7411					926	1 7411	\$ 15 25
January	-	-	1	1,241 4075	2 1683					1,241	2 1683	\$ 20 44
February	-	-	1	769 1975	1 4892					769	1 4892	\$ 12 67
March	1	1	1	896 9021	1 7479					897	1 7479	\$ 14 77
April	-	1	1	775 1372	1 6620					775	1 6620	\$ 12 76
May	-	1	1	972 6339	2 1399					973	2 1399	\$ 16 02
June	-	1	1	972.6339	1.9954					973	1.9954	\$ 16.02
												\$ 59 57

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant				2011		Total Impacts		
Customer 26 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	762 9558	1 4480	0 0165	3 83	\$ 3,197 27	9,062 5448	763	1 4480	\$ 12 56
August	-	-	1	915 5469	1 8131					916	1 8131	\$ 15 08
September	-	-	1	1,581 0139	3 6371					1,581	3 6371	\$ 26 04
October	-	-	1	1,288 5475	2 9667					1,289	2 9667	\$ 21 22
November	-	-	1	1,140 1950	2 2643					1,140	2 2643	\$ 18 78
December	-	-	1	1,321 3369	2 4849					1,321	2 4849	\$ 21 76
January	-	-	1	1,771 7529	3 0947					1,772	3 0947	\$ 29 18
February	-	-	1	1,097 8086	2 1254					1,098	2 1254	\$ 18 08
March	1	1	1	1,280 0702	2 4946					1,280	2 4946	\$ 21 08
April	-	1	1	1,106 2859	2 3721					1,106	2 3721	\$ 18 22
May	-	1	1	1,388 1557	3 0540					1,388	3 0540	\$ 22 86
June	-	1	1	1,388.1557	2.8479					1,388	2.8479	\$ 22.86
												\$ 85 02

High Efficiency Program - Other (Custom for Schools)	2010 Incremental	2010 Cumulative		2010 impacts per participant				2011		Total Impacts		
Customer 27 (2009-2010)	Participation	Participation	2010 Base for 2011	kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR
Cumulative from prior year(s)			1									
July	-	-	1	-	-	0 0165	4 04	\$ 372 70	1,133 7187	-	-	\$ -

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per participant		UCT	2011		SS Rate	Total Impacts						
kw	LR Rate		Cost/Part			kwh	kw	LR	SS			
0.1713	0.0497		1.01	\$	2,735.89	27,358.9	42,772	101	\$	2,126.58	\$	27.36
0.1636							40,099	97	\$	1,993.66	\$	46.51
0.1440							30,655	86	\$	1,524.16	\$	51.98
-							-	-	\$	-	\$	21.89
0.1204							32,563	73	\$	1,618.99	\$	60.19
0.1644							40,299	88	\$	2,003.64	\$	60.19
0.1511							44,151	87	\$	2,195.12	\$	136.79
0.1362							36,466	79	\$	1,813.07	\$	76.60
0.1225							31,965	70	\$	1,589.24	\$	-
-							-	-	\$	-	\$	19.15
0.1121							26,502	63	\$	1,317.65	\$	79.34
0.1620							34,425	92	\$	1,711.59	\$	60.19
									\$	17,893.70	\$	640.20

per participant		2011				Total Impacts			
kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	SS	
0.2624	0.0497	0.89	\$ 959.96	(105.60)	24,065	57	\$ 1,196.49	\$ (31.68)	
0.2505					22,747	55	\$ 1,130.94	\$ (63.36)	
0.2206					17,245	49	\$ 857.39	\$ (21.12)	
0.1586					14,658	35	\$ 728.79	\$ (274.55)	
0.1844					25,471	57	\$ 1,266.39	\$ (992.60)	
0.2518					21,459	47	\$ 1,066.91	\$ 1,119.31	
0.2314					21,836	43	\$ 1,085.67	\$ (116.16)	
0.2086					17,562	38	\$ 873.16	\$ -	
0.1876					15,288	33	\$ 760.13	\$ -	
0.1518					12,564	29	\$ 624.66	\$ (126.71)	
0.1716					13,411	32	\$ 666.77	\$ (73.92)	

0.2481	19,148	51	\$	952.02	\$	(221.75)
			\$	11,209.31	\$	(802.53)

2010 Cumulative Participation	2011 Incremental Participation	2011 Cumulative Participation	2011 impacts per participant				2011			Total Impacts			
			kwh	kw	LR Rate	UCT	Cost/Part	SS Rate		kwh	kw	LR	SS
	482												
47	41	523	46,0183	0.0690		0.0497	1.15	\$ 275.52	41.3280	52,327	75	\$ 2,601.67	\$ 169.44
86	39	562	42,7063	0.0690						46,591	72	\$ 2,316.47	\$ 161.18
132	62	624	32,3765	0.0690						37,329	76	\$ 1,855.96	\$ 256.23
208	75	699	-	-						-	-	\$ -	\$ 309.96
249	47	746	33,9376	0.0690						42,360	83	\$ 2,106.12	\$ 194.24
249	6	752	47,6533	0.0690						59,265	83	\$ 2,946.58	\$ 24.80
287	64	816	48,4912	0.0690						60,534	83	\$ 3,009.71	\$ 264.50
324	62	878	39,6387	0.0690						49,135	83	\$ 2,442.95	\$ 256.23
369	52	930	35,4767	0.0690						43,276	82	\$ 2,151.62	\$ 214.91
402	26	956	-	-						-	-	\$ -	\$ 107.45
445	20	976	29,6216	0.0690						33,246	77	\$ 1,652.95	\$ 82.66
482	17	993	38,2077	0.0690						42,618	76	\$ 2,118.94	\$ 70.26
											\$	23,202.96	\$ 2,111.86

; per participant	2011 Incremental Participation (Second Half Filing Pd.)	2011 Cumulative Participation (Second Half Filing Pd.)	2011 impacts per participant				2011			Total Impacts			
			kwh	kw	LR Rate	UCT	Cost/Part	SS Rate		kwh	kw	LR	SS
0.0097	-	-	3,8070	0.0063		0.0497	1.37	\$ 8.90	3.2930	994,059	1,865	\$ 49,423.60	\$ 6.59
0.0086	-	-	3,8109	0.0052						993,239	1,653	\$ 49,382.85	\$ -
0.0081	-	-	3,6821	0.0050						962,448	1,552	\$ 47,851.97	\$ -
0.0085	-	-	3,8113	0.0057						993,157	1,634	\$ 49,378.78	\$ -
0.0097	-	-	3,6770	0.0079						963,514	1,862	\$ 47,904.94	\$ -
0.0084	-	-	3,8068	0.0053						994,100	1,619	\$ 49,425.64	\$ -
0.0081	-	-	3,8001	0.0053						995,534	1,564	\$ 49,496.95	\$ -
0.0098	-	-	3,4697	0.0093						907,122	1,879	\$ 45,101.21	\$ -
0.0097	-	-	3,8111	0.0062						993,198	1,859	\$ 49,380.81	\$ -
0.0104	-	-	3,6884	0.0064						961,096	1,999	\$ 47,784.73	\$ -
0.0077	-	-	3,8047	0.0048						994,550	1,485	\$ 49,448.05	\$ -

0.0087	13,692	13,692	3.6882	0.0052	1,011,636	1,754	\$	50,297.55	\$	4,508.78	
								\$	584,877.07	\$	4,515.36

2011 Incremental Participation (First Half Filing Pd.)	2011 Cumulative Participation (First Half Filing Pd.)	2011 impacts per participant (First Half Filing Pd )		2011 Incremental Participation (Second Half Filing Pd.)	2011 Cumulative Participation (Second Half Filing Pd.)	2011 impacts per participant (Second Half Filing Pd )		2011					Total Impacts				
		kwh	kw			kwh	kw	LR Rate	UCT	Cost/Part	SS Rate	kwh	kw	LR	SS		
	314																
40	354	30 9861	0 0786	-	-	22 8421	0 0379	0 0497	1 21	\$	81 84	17.1864	23,239	57	\$	1,155 40	\$ 68 75
9	363	30 9605	0 0654	-	-	22 8653	0 0315						22,505	51	\$	1,118 92	\$ 15 47
43	406	30 0007	0 0684	-	-	22 0924	0 0299						19,228	48	\$	956 02	\$ 73 90
23	429	30 9580	0 0735	-	-	22 8676	0 0340						13,304	32	\$	661 45	\$ 39 53
20	449	30 0339	0 0799	-	-	22 0622	0 0471						19,186	49	\$	953 91	\$ 34 37
20	469	30 9873	0 0730	-	-	22 8410	0 0320						20,978	48	\$	1,043 03	\$ 34 37
-	469	31 0320	0 0659	12	12	22 8004	0 0317						20,432	54	\$	1,015 86	\$ 20 62
-	469	28 2761	0 0785	-	12	20 8179	0 0559						16,939	57	\$	842 18	\$ -
-	469	30 9592	0 0852	-	12	22 8665	0 0370						17,067	58	\$	848 55	\$ -
-	469	29 9586	0 0885	-	12	22 1306	0 0385						14,085	54	\$	700 28	\$ -
-	469	31 0014	0 0682	-	12	22 8282	0 0291						15,454	46	\$	768 36	\$ -
-	469	29 9598	0 0718	-	12	22 1295	0 0312						14,653	47	\$	728.51	\$ -
															\$	10,792 47	\$ 287 01

SS Rate	Total Impacts			
	kwh	kw	LR	SS
74 2914	293,314	744	\$ 14,583.28	\$ 18,245.97
	299,698	633	\$ 14,900.67	\$ 1,589.84
	308,047	702	\$ 15,315.81	\$ 4,368.33
	320,291	760	\$ 15,924.55	\$ 579.47
	311,422	829	\$ 15,483.59	\$ 170.87
	321,711	757	\$ 15,995.13	\$ 96.58
	322,243	684	\$ 16,021.60	\$ 22.29
	293,625	815	\$ 14,598.76	\$ -
	321,487	885	\$ 15,984.03	\$ -
	311,096	919	\$ 15,467.40	\$ -
	321,971	708	\$ 16,008.05	\$ 14.86
	311,242	746	\$ 15,474.66	\$ 29.72
			\$ 185,757.53	\$ 25,117.92

2010 Cumulative Participation	2010 Participation Base for 2011	2010 impacts per participant		2011 Incremental Participation	2011 Cumulative Participation	2011 impacts per participant		LR Rate	UCT	2011		Total Impacts						
		kwh	kw			kwh	kw			Cost/Part	SS Rate	kwh	kw	LR	SS			
9,460	24,761	12 8363	0 0285	227	227	19 1520	0 0415	0 0165	6 66	\$	11 85	67 0710	3,124,435	7,955	\$	51,453 20	\$	1,522 51
9,794	24,761	12 8363	0 0283	310	537	19 3958	0 0488						3,024,009	7,569	\$	49,799 38	\$	2,079 20
9,794	24,761	12 4192	0 0229	1,304	1,841	18 7716	0 0487						2,944,624	7,628	\$	48,492.06	\$	8,746 06
9,878	24,761	12 7627	0 0285	1,481	3,322	19 3973	0 0369						3,026,594	7,877	\$	49,841.96	\$	9,933 22
10,292	24,761	12 4192	0 0283	652	3,974	18 7716	0 0488						2,893,917	7,152	\$	47,657.02	\$	4,373 03
11,739	24,761	12 8332	0 0284	2,919	6,893	19 3973	0 0500						2,100,238	4,442	\$	34,586.72	\$	19,578 02
17,312	24,761	12 8332	0 0287	2,975	9,868	19 3973	0 0490						2,121,879	4,754	\$	34,943.10	\$	19,953 62
17,046	24,761	11 7042	0 0285	467	10,335	17 6908	0 0476						1,914,226	4,900	\$	31,523.48	\$	3,132 22
22,508	24,761	12 8332	0 0231	992	11,327	19 3973	0 0492						2,003,453	4,437	\$	32,992.87	\$	6,653 44
23,405	24,761	12 3510	0 0287	7,135	18,462	18 7716	0 0488						2,071,071	4,692	\$	34,106 40	\$	47,855 16

23,439	24,761	12 8332	0 0285	1,034	19,496	19 3973	0 0356					2,120,806	5,085	\$	34,925 43	\$	6,935 14
24,761	24,761	12.4192	0.0287	160	19,656	18.7716	0.0487					2,045,369	4,638	\$	33,683.13	\$	1,073.14
														\$	484,004 74	\$	131,834 76

2010 Cumulative Participation	2010 Participation Base for 2011	2010 impacts per participant kwh	2010 impacts per participant kw	2011 Incremental Participation	2011 Cumulative Participation	2011 impacts per participant kwh	2011 impacts per participant kw	LR Rate	UCT	2011 Cost/Part	SS Rate	Total Impacts					
												kwh	kw	LR		SS	
2	89	143 2188	0.2837	569	569	20 6872	0 0404	0 0165	3.30	\$ 19 71	45 3330	412,813	420	\$	6,798 20	\$	2,579 45
2	89	144 5120	0.2878	1	570	20 8813	0 0411					416,565	426	\$	6,860 00	\$	4 53
8	89	124 1524	0.2740	413	983	17 9286	0 0390					365,276	79	\$	6,015 36	\$	1,872 25
10	89	15 9743	0.0321	354	1,337	1 3142	0 0026					29,211	6	\$	481 04	\$	1,604.79
10	89	15 3559	0 0272	21	1,358	1 2995	0 0024					28,156	6	\$	463 67	\$	95 20
10	89	17 1829	0.0288	2,288	3,646	1 4988	0 0026					34,973	12	\$	575 93	\$	10,372.19
51	89	17 3165	0.0324	78	3,724	1 5300	0 0029					35,458	14	\$	583 92	\$	353.60
77	89	15 2857	0.0330	1,564	5,288	1 3415	0 0030					33,364	19	\$	549 44	\$	7,090 08
78	89	15 8072	0.0321	155	5,443	1 3576	0 0029					34,556	18	\$	569 07	\$	702 66
78	89	14 8228	0.0295	228	5,671	1 2410	0 0025					32,512	17	\$	535 41	\$	1,033 59
79	89	120 4224	0.2435	61	5,732	17.4141	0.0346					427,523	220	\$	7,040 45	\$	276 53
89	89	132.2011	0.2741	6	5,738	19.1065	0.0391					469,391	592	\$	7,729.94	\$	27.20
														\$	38,202 42	\$	26,012 08

2010 Cumulative Participation	2010 Participation Base for 2011	2010 impacts per participant kwh	2010 impacts per participant kw	2011 Incremental Participation	2011 Cumulative Participation	2011 impacts per participant kwh	2011 impacts per participant kw	LR Rate	UCT	2011 Cost/Part	SS Rate	Total Impacts					
												kwh	kw	LR		SS	
-	18	2,790 5564	5 6351	-	-	226 8714	0 4857	0 0165	13 96	\$ 89 62	1,161 48	99,800	184	\$	1,643 51	\$	-
-	18	2,812 3876	5 7054	-	-	229 9018	0 5453					100,641	186	\$	1,657 35	\$	-
10	18	2,455 0101	5 4685	-	-	205 6050	0 5303					87,185	182	\$	1,435 77	\$	-
10	18	2,379 2135	4 9207	-	-	202 4851	0 4176					83,902	171	\$	1,381 70	\$	-
10	18	2,289 4204	4 3281	4	4	195 1280	0 4582					80,700	164	\$	1,328 97	\$	464 59
10	18	2,532 2609	4 5285	4	8	212 1686	0 4709					89,767	172	\$	1,478 29	\$	464 59
10	18	2,549 1741	4 9880	100	108	213 2387	0 4999					90,514	280	\$	1,490 59	\$	11,614.75
11	18	2,260 6654	5 0093	-	108	190 4141	0 4898					80,102	281	\$	1,319 12	\$	-
16	18	2,358 0662	4 9501	-	108	201 1471	0 4975					83,201	280	\$	1,370 15	\$	-
16	18	2,221 9148	4 6145	3	111	190 8568	0 4763					78,224	277	\$	1,288 19	\$	348.44
18	18	2,403 1152	4 6242	-	111	203 9974	0 4099					84,928	277	\$	1,398 59	\$	-
18	18	2,591.8034	5.4699	-	111	214.2601	0.5304					92,380	292	\$	1,521.31	\$	-
														\$	17,313 53	\$	12,892 37

UCT	2011		SS Rate	Total Impacts			
	Cost/Part			kwh	kw	LR	SS
	7.19	\$	121.95	754.8705			
				395,892	10.9259	\$	6,519.55
				396,221	11.2976	\$	6,524.97
				382,391	11.0310	\$	6,297.22
				397,282	10.6636	\$	6,542.43
				384,715	9.9814	\$	6,335.49
				397,267	13.9119	\$	6,542.19
				397,482	14.8607	\$	6,545.73
				364,662	18.0185	\$	6,005.26
				401,656	18.3471	\$	6,614.48
				389,970	17.3910	\$	6,422.03
				400,900	17.0175	\$	6,602.03
				386,515	19.8280	\$	6,365.13
						\$	77,316.50
							\$ 2,415.59





**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-019**

**REQUEST:**

Provide, in an electronic format with formulas unprotected, a breakdown of shared savings, both gas and electric, by program, of the Actual Shared Savings shown in Appendix B, page 1, column 3, for July 2010 to June 2011 using the following formula:

Number of new participants times the utility's shared savings amount per participant which equals the total incentive amount.

**RESPONSE:**

See attached CD containing "STAFF-DR-01-018 Attachment.xls". Please note that this Excel spreadsheet contains the response to both STAFF-DR-01-018 and STAFF-DR-01-019.

**PERSON RESPONSIBLE:** Thomas J. Wiles



**STAFF-DR-01-020**

**REQUEST:**

Refer to Appendix B, page 1 of the Application. Compare actual program costs in column 4 to projected program costs in column 1 for each residential and commercial program and explain any differences of 20 percent or more by program, whether the difference is positive or negative.

**RESPONSE:**

**Commercial High Efficiency Program:**

Overall, the Commercial High Efficiency Program also known as Smart Saver Prescriptive and Smart Saver Custom programs spent 61% less than projected. Prescriptive lighting and HVAC applications, incentives, and expenses were comparable to the projections overall. Motors and other technologies such as food service and process equipment were 90% below the projections. Duke Energy is looking at additional relevant equipment additions for the Prescriptive program in these technologies. In addition, expansion of the custom program to all commercial and industrial customers will increase participation spending in the programs.

Activity in the Schools program was lower than expected. Prescriptive incentives totaled only \$63,940 for the filing year. There were no Custom incentives paid during this filing year. Duke Energy continues to offer assessments for our school facilities and had discussions with school districts about proposed projects through our Account Managers.

**Power Manager<sup>®</sup>:**

In the first quarter of 2011, Duke Energy began replacing Corporate Systems Engineering (CSE) Power Manager switches with Cannon load control switches manufactured by Cooper Power Systems. Replacing the older devices will improve operability and load reduction impacts and generate cost savings by reducing the systems and hardware needed to support two switch types. The purchase and installation of Cannon switches used in this replacement project led to the overage.

**Residential Conservation and Energy Education:**

The positive increase in program costs for the Residential Conservation and Energy Education Program \$640,199 is a result of an increase in Program Administration costs due to a high percentage of Tier II customers and increase in Other costs.

**Refrigerator Replacement:**

For the Refrigerator Replacement program, the 20 percent difference in program costs may be explained by a prolonged program management vacancy by one of the vendors. Because of the vacancy, the vendor was unable to perform and report refrigerator replacements as executed in years past.

**Payment Plus:**

Payment Plus did not see the predicted level of participation throughout all three segments of the program. In an attempt to raise the participation level, courses were held in back to back sessions. However, the extended length of time (four hours) may have deterred some customers from attending sessions.

**Energy Star Products:**

Marketing efforts were reduced and focus was more around strategy to increase participation with future channels and marketing campaigns.

**Personalized Energy Report (PER)<sup>®</sup>:**

Due to the timing of the PER campaign, results were divided into two filing periods. Fifty-seven percent of the costs were allocated during the current filing period as well as, 3,381 of the 10,391 total participants. Another campaign was not launched during this filing period in an effort not to overlap the Energy Star Products offer.

**Energy Efficiency Website, On-Line Energy Assessment:**

In an effort not to overlap the Energy Star Products offer, the Company discontinued providing a free 6 pack of CFL bulbs with the completion of the online survey therefore resulting in a difference of projected costs to actual costs.

**PERSON RESPONSIBLE:** Kevin Bright/Non Residential Programs  
Rick Mifflin/Residential Programs  
Michael Corn/Power Manager<sup>®</sup>



**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-021**

**REQUEST:**

Refer to Appendix B, page 1 of the Application. Compare lost revenues in column 7 to projected lost revenues in column 2 for each residential and commercial program and explain any difference of 20 percent or more by program, whether the difference is positive or negative.

**RESPONSE:**

The variance between actual and projected lost revenues is primarily driven by differences of customer participation and the level of the load impacts.

The table below shows the difference between the projected lost revenues and the actual lost revenues where the difference is more than 20% along with an explanation of the reason for the difference.

Program	Projected Lost Revenue	Actual Lost Revenue	Reason for difference
Refrigerator Replacement	\$6,145	\$11,209	Lost revenues are higher than projected because the actual participation was higher than projected.
Residential Home Energy House Call	\$49,810	\$23,203	Lost revenues are lower than projected because the actual participation was lower than projected.
Energy Efficiency Website	\$26,781	\$10,792	Lost revenues are lower than projected because the actual participation was lower than projected.
Personalized Energy Report Program	\$121,547	\$185,758	Lost revenues are higher than projected because the actual participation was higher than projected.

Residential SmartSaver	\$50,150	\$ -	This program was not approved in time to be offered during this filing period therefore there were no lost revenues.
High Efficiency Program			
Lighting	\$308,352	\$484,005	Lost revenues are higher than projected because the actual participation was higher than projected.
HVAC	\$29,247	\$38,202	Lost revenues are higher than projected because the actual participation was higher than projected.
Other	\$298,836	\$116,523	For the projected lost revenues, the mixture of measures had an average impact of 1,679 kwh and the actual mixture of measures had an average impact of 202 kwh.

**PERSON RESPONSIBLE:** Thomas J. Wiles





**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-022**

**REQUEST:**

Refer to Appendix B, page 1 of the Application. Compare shared savings in column 8 to projected shared savings in column 3 for each residential and commercial program and explain any difference of 20 percent or more by program whether the difference is positive or negative.

**RESPONSE:**

The calculation of shared savings is dependent on the amount of money spent and the cost effectiveness of the program. For example, if the actual program spending is higher than the original projected amount then the shared savings will be higher assuming no change in the cost effectiveness of the program. In order for the program spending to increase without a change in cost effectiveness, participation must increase.

Or, if the cost effectiveness of a program increases with no change in spending the shared savings will also be higher. In order for the cost effectiveness to increase without increased spending, the load impacts from the energy efficiency measure must increase.

The table below shows the difference between the projected shared savings and the actual shared savings where the difference is more than 20% along with an explanation of the reason for the difference.

Program	Projected Shared Savings	Actual Shared Savings	Reason for difference
Res. Conservation & Energy Education	\$ (3,499)	\$ 640	Shared savings are higher than projected because the actual spending and cost effectiveness are both higher than projected.
Refrigerator Replacement	\$ 300	\$ (803)	Shared savings are lower than projected because the actual spending and cost effectiveness are both lower than projected.

Residential Home Energy House Call	\$ 35,700	\$ 2,112	Shared savings are lower than projected because the actual spending and cost effectiveness are both lower than projected.
Power Manager	\$ 174,000	\$ 18,395	The original projection for Shared Savings was based on a 15 year measure life for incremental participants but the current method for calculating Shared Savings limits the avoided costs to just one year.
Energy Star Products	\$ 63,450	\$ 4,515	Shared savings are lower than projected because the actual spending and cost effectiveness are both lower than projected.
Energy Efficiency Website	\$ 2,955	\$ 287	Shared savings are lower than projected because the actual spending and cost effectiveness are both lower than projected.
Personalized Energy Report Program	\$ 73,134	\$ 25,118	Shared savings are lower than projected because the actual spending and cost effectiveness are both lower than projected.
Residential SmartSaver	\$ 53,822	\$ -	This program was not approved in time to be offered during this filing period therefore there were no shared savings
<b>High Efficiency Program</b>			
Lighting	\$ 10,698	\$ 131,835	Shared savings are higher than projected because the actual spending and cost effectiveness are both higher than projected.
HVAC	\$ 14,588	\$ 26,012	Shared savings are higher than projected because the current cost effectiveness is higher than what was originally projected.
Motors	\$ 25,718	\$ 12,892	Shared Savings are lower than projected because the actual spending was lower than projected even though the cost effectiveness increased.
Other	\$ 448,830	\$ 2,416	Shared savings are lower than projected because both the actual spending and cost effectiveness are lower than projected.
PowerShare®	\$ 107,641	\$ 28,899	Shared savings are lower than projected because the cost effectiveness decreased even though actual spending increased.

**PERSON RESPONSIBLE:**

Thomas J. Wiles



**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-023**

**REQUEST:**

Refer to Appendix B, page 1 of the Application. Identify and describe the factors responsible for the (Over)/Under Collection for residential gas customers growing to (\$4,408,808) from the amount of (\$4,198) included in the application in Duke Kentucky's prior annual cost recovery filing, Case No. 2010-00445.<sup>1</sup> Explain whether Duke Kentucky has any proposals for achieving a lower over/under collection amount in the future.

**RESPONSE:**

The large over collection is caused by a timing mis-match between the revenues and costs reported in the filing. The spreadsheet model contained in Appendix B has been used by the Company for a number of years in its Rider DSMR update filings.

Specifically, column 11 on Appendix B, page 1 shows that the Company collected \$5,027,378 in gas DSMR revenues during the period July 2010 through June 2011. Those revenues were based on the gas DSMR rate of \$0.074752 per CCF that was approved in Case No. 2009-00444. The overcollection amount of \$4,197 was the calculated over collection from the 2010-00445 filing in which a gas Rider DSMR rate of \$0.016509 per CCF was approved. That new rate did not go into effect until July 2011. This latest Rider DSMR filing shows revenue collections based on rates calculated in the 2009 update filing and it includes cost numbers that are more current. This lack of synchronization between the revenues and costs is causing large swings in the (Over)/Under Collection dollars.

The Company proposes to work with the Collaborative to develop a revision to the spreadsheet model in order to allow for more matching between costs and revenues, and submit its proposed model to Commission Staff for review and approval.

**PERSON RESPONSIBLE:** James E. Ziolkowski

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<sup>1</sup> Case No. 2010-00445, Annual Cost Recovery Filing for Demand-Side Management by Duke Energy Kentucky, Inc. (Ky. PSC Jun. 7, 2011).



**STAFF-DR-01-024**

**REQUEST:**

Refer to Appendix B, page 1 of the Application. Identify and describe the factors responsible for the (Over)/Under Collection for residential electric customers growing to (\$1,277,849) from the amount of (\$1,040,783) included in the application in Duke Kentucky's prior annual cost recovery filing, Case No. 2010-00445.<sup>1</sup> Explain whether Duke Kentucky has any proposals achieving a lower over/under collection amount in the future.

**RESPONSE:**

Please see the response to STAFF-DR-01-023. The increasing over collection is caused by a timing mis-match between the revenues and costs reported in the filing. The spreadsheet model contained in Appendix B has been used by the Company for a number of years in its Rider DSRM update filings.

The residential electric Rider DSRM revenues shown in column 11 are the revenues collected for the period July 2010 through June 2011, but they are based on the rate approved in Case No. 2009-00444. The prior period over collection amount of \$1,040,783 was the calculated result from Case No. 2010-00445. The new lower rate approved in the 2010 case did not go into effect until July 2011. This lack of synchronization between the revenues and costs is causing the over collection to increase.

The Company proposes to work with the Collaborative to develop a revision to the spreadsheet model in order to allow for more matching between costs and revenues, and submit its proposed model to Commission Staff for review and approval.

**PERSON RESPONSIBLE:** James E. Ziolkowski

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<sup>1</sup> Id.





**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-025**

**REQUEST:**

Refer to Appendix B, page 2.

- a. Provide the actual number of participants, both gas and electric, for each residential and commercial program listed in Appendix B, page 2 for the 12 months ended June 30, 2011.
- b. Provide the most currently available actual number of participants, both gas and electric, for each residential and commercial program listed in Appendix B, page 2, for the period beginning July 1, 2011.
- c. Provide the projected number of participants, both gas and electric, for each residential and commercial program listed in Appendix B, page 2 for 2012.

**RESPONSE:**

- a. The following table contains the participants for each program for the 12 months ended June 30, 2011:

<b>Program</b>	<b>Customer Participation 7/2010 - 6/2011 by Service Type (A)</b>		
	<b>Elec/Gas</b>	<b>Elec Only</b>	<b>Gas Only</b>
Residential Conservation & Energy Education (B)	187	33	11
Refrigerator Replacement (B)	47	17	2
Home Energy House Call	405	98	8
Residential Comprehensive Energy Education	126	28	1
Home Energy Assistance Plus (continuing)	239	18	13
Power Manager (C)	6,849	2,495	N/A
Energy Star Products			
CFL's (Compact Fluorescent Lights)	1,383	903	0
Torchieres (Floor lamps)	0	0	0
Energy Efficiency Web Site	2,282	1,097	2
Personalized Energy Report Pilot Program	87	62	18

Residential SmartSaver	0	0	0
Home Energy Assistance Pilot Program (D)	N/A	104,691	144,383
High Efficiency Program			
Lighting	128	104	2
HVAC	15	12	0
Motors	1	3	0
Other	3	3	0
High Efficiency School Incentive Program			
Lighting	22	13	0
HVAC	9	3	0
Motors	0	8	0
Other	0	0	0
PowerShare® Program	9	3	N/A

(A) Service type as of 1/2012. Number of customers, not measures.

(B) Difference from filed participation due to end of filing period adjustments.

(C) Number of customers not switches.

(D) Number of \$0.10 collections for filing period.

- b. The following table contains the number of participants for each program for the period July 1, 2011 through December 31, 2011:

Program	Estimated Customer Participation 7/2011 - 12/2011 by Service Type (A)		
	Elec/Gas	Electric Only	Gas Only
Residential Conservation & Energy Education	22	3	1
Refrigerator Replacement	18	4	3
Home Energy House Call	201	68	2
Residential Comprehensive Energy Education	0	0	0
Home Energy Assistance Plus (continuing)	188	56	2
Power Manager (B)	6780	2467	N/A
Energy Star Products			
CFL's (Compact Fluorescent Lights)	1026	622	0
Torchieres (Floor lamps)	N/A	N/A	N/A
Energy Efficiency Web Site	3164	1562	4
Personalized Energy Report Pilot Program	3469	1888	0
Residential SmartSaver	121	60	2
Home Energy Assistance Pilot Program (C)	N/A	120349	87021
High Efficiency Program			
Lighting	94	56	0
HVAC	14	6	0

Motors	8	5	0
Other	0	0	0
High Efficiency School Incentive Program			
Lighting	0	2	0
HVAC	2	5	0
Motors	0	0	0
Other	0	0	0
PowerShare® Program	14	4	N/A

(A) Service types as of 1/2012. Number of customers, not measures.

(B) Number of customers, not switches.

(C) Average number of \$0.10 collections per month, 7/2011 through 12/2011.

- c. The following table contains the projected number of participants for each program for 2012. The allocation between service types is based on actual performance during the filing period and the prior 6 months:

<b>Program</b>	<b>Projected Customer Participation for 2012 by Service Type</b>		
	<b>Elec/Gas</b>	<b>Elec Only</b>	<b>Gas Only</b>
Residential Conservation & Energy Education	243	43	14
Refrigerator Replacement	36	13	1
Home Energy House Call	396	96	8
Residential Comprehensive Energy Education	N/A	N/A	N/A
Home Energy Assistance Plus (continuing)	N/A	N/A	N/A
Power Manager	1832	668	0
Energy Star Products			
CFL's (Compact Fluorescent Lights)	24502	15998	0
Torchieres (Floor lamps)	N/A	N/A	N/A
Energy Efficiency Web Site	1236	594	0
Personalized Energy Report Pilot Program	4689	3341	970
Residential SmartSaver	836	415	14
Home Energy Assistance Pilot Program (A)	N/A	86889	119831
High Efficiency Program			
Lighting	3926	3190	62
HVAC	61	49	0
Motors	18	54	0
Other	1119	1119	0
High Efficiency School Incentive Program			
Lighting	4512	2666	0
HVAC	82	28	0
Motors	0	72	0
Other	0	0	0
PowerShare® Program	N/A	N/A	N/A

(A) HEA Participation is the sum of the projected gas and electric contributions on page 5 of Appendix B.

**PERSON RESPONSIBLE:** Thomas J. Wiles



**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-026**

**REQUEST:**

Refer to Appendix B, page 4. Provide, by customer group, electric sales in kWh and gas sales in Ccf for the 12 months ended June 30, 2011 for residential customers, non-residential distribution service customers, and transmission service customers.

**RESPONSE:**

The following table shows the electric sales in kWh by customer group for the 12 months ended June 30, 2012:

KWH	
CUSTOMER GROUP	Total
Residential	1,562,981,969
Non-Residential Distribution Service	2,300,883,748
Transmission Service	223,895,817
Grand Total	4,087,761,534

The following table shows the gas sales in CCF by customer group for the 12 months ended June 30, 2012:

CCF	
CUSTOMER GROUP	Total
RS	67,318,790
General Service	36,316,150
Firm Transportation	16,521,420
Interruptible Transportation	15,217,400
Grand Total	135,373,760

**PERSON RESPONSIBLE:** James E. Ziolkowski



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-027**

**REQUEST:**

Refer to Appendix B, page 6. The footnote states, “[d]ifferences in Lost Revenues/shared Savings multiplied by 1.002733 for 2010 for the average three-month commercial paper rate to include interest on over or under-recovery in Case No. 2010-00445.” The amounts in columns 5 and 6, multiplied by the factor 1.002733 from the footnote, do not equal the amounts in columns 7 and 8. Explain whether the amounts in columns 7 and 8 should be revised or if the factor should be revised to 1.022733.

**RESPONSE:**

The amounts in columns 7 and 8 should be revised to (\$4148) for Lost Revenues in column 7 and (\$3079) for Shared Savings in column 8. The factor in the footnote of 1.002733 is correct, however, when Page 6 was prepared the formula used to calculate the results in columns 7 and 8 contained an incorrect multiplier, 1.022733.

Please see the Revised Appendix B included in the response to STAFF-DR-01-028.

**PERSON RESPONSIBLE:** Thomas J. Wiles





**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-028**

**REQUEST:**

Provide Appendix B in electronic format with formulas intact and unprotected.

**RESPONSE:**

Please see Attachment STAFF-DR-01-28

**PERSON RESPONSIBLE:** Thomas J. Wiles

Kentucky DSM Rider

Comparison of Revenue Requirement to Rider Recovery

	(1) Projected Program Costs 7/2010 to 6/2011 (A)	(2) Projected Last Revenues 7/2010 to 6/2011 (A)	(3) Projected Shared Savings Program Expenditures 7/2010 to 6/2011 (A)	(4) Program Expenditures 7/10 through 6/11 (B)	(5) Gas	(6) Electric	(7) Lost Revenues 7/10 through 6/11 (B)	(8) Shared Savings 7/10 through 6/11 (B)	(9) 2010 Reconciliation Gas (D)	(10) Electric (E)	(11) Rider Collection (F) Gas	(12) Electric	(13) (Over)/Under Collection Gas (G)	(14) Electric (H)
Residential Programs														
Res. Conservation & Energy Education	\$ 499,800	\$ 16,525	\$ (3,499)	\$ 640,199	\$ 402,686	\$ 237,514	\$ 17,894	\$ 640			NA	NA	NA	NA
Refrigerator Replacement	\$ 100,000	\$ 6,145	\$ 300	\$ 72,957	\$ 88,558	\$ 72,957	\$ 11,209	\$ (803)			NA	NA	NA	NA
Residential Home Energy House Call	\$ 150,000	\$ 49,810	\$ 35,700	\$ 140,792	\$ 88,558	\$ 52,234	\$ 19,054	\$ (987)			NA	NA	NA	NA
Res. Comprehensive Energy Education	\$ 81,500	\$ -	\$ -	\$ 78,880	\$ 49,615	\$ 29,265	\$ -	\$ -			NA	NA	NA	NA
Payment Plus	\$ 150,000	\$ -	\$ -	\$ 97,444	\$ -	\$ 97,444	\$ -	\$ -			NA	NA	NA	NA
Power Manager	\$ 140,000	\$ -	\$ -	\$ 1,082,096	\$ 11,676	\$ 1,082,096	\$ -	\$ 18,395			NA	NA	NA	NA
Program Development Funds	\$ 243,000	\$ 690,225	\$ -	\$ 63,450	\$ 122,046	\$ 122,046	\$ 584,877	\$ 4,515			NA	NA	NA	NA
Energy Star Products	\$ 31,110	\$ 26,781	\$ 2,955	\$ 13,667	\$ 8,596	\$ 5,071	\$ 10,792	\$ 287			NA	NA	NA	NA
Personalized Energy Rebate Program	\$ 153,000	\$ 121,547	\$ 73,134	\$ 90,693	\$ 57,046	\$ 33,647	\$ 185,758	\$ 25,118			NA	NA	NA	NA
Residential SmartSaver	\$ 448,520	\$ 50,150	\$ 53,822	\$ 259,999	\$ 109,283	\$ 150,716	\$ -	\$ -			NA	NA	NA	NA
Home Energy Assistance Pilot Program (I)	\$ 247,263	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			NA	NA	NA	NA
Revenues collected except for HEF											\$ 104,692	\$ 144,383		
Total	\$ 3,119,213	\$ 961,183	\$ 399,862	\$ 2,617,337	\$ 727,459	\$ 1,889,878	\$ 829,585	\$ 47,186	\$ (4,197)	\$ (1,040,783)	\$ 5,027,378	\$ 2,859,182	\$ (4,408,809)	\$ (1,277,705)

- (A) Amounts identified in report filed on November 15, 2010.  
 (B) Actual program expenditures, lost revenues, and shared savings for the period July 1, 2010 through June 30, 2011 and lost revenues for this period and from prior period DSM measure installations.  
 (C) Allocation of program expenditures to gas and electric. Uses 62.9% gas based upon calculation of gas space heating.  
 (D) Recovery allowed in accordance with the Commission's Order in Case No. 2004-00389.  
 (E) Recovery allowed in accordance with the Commission's Order in Case No. 2004-00389.  
 (F) Revenues collected through the DSM Rider between July 1, 2010 and June 30, 2011.  
 (G) Column (5) + Column (9) - Column (11).  
 (H) Column (6) + Column (7) + Column (10) - Column (12).  
 (I) Revenues and expenses for the Home Energy Assistance Pilot Program.

	(1) Projected Program Costs 7/2010 to 6/2011 (A)	(2) Projected Last Revenues 7/2010 to 6/2011 (A)	(3) Projected Shared Savings Program Expenditures 7/2010 to 6/2011 (A)	(4) Program Expenditures 7/10 through 6/11 (B)	(5) Lost Revenues 7/10 through 6/11 (B)	(6) Shared Savings 7/10 through 6/11 (B)	(7) Reconciliation (C)	(8) Rider Collection (D)	(9) (Over)/Under Collection (E)
Commercial Programs									
High Efficiency Program									
Lighting	\$ 209,520	\$ 308,352	\$ 10,698	\$ 232,849	\$ 484,005	\$ 131,835			
HVAC	\$ 142,760	\$ 29,247	\$ 14,588	\$ 113,104	\$ 38,202	\$ 26,012			
Motors	\$ 100,678	\$ 21,031	\$ 25,718	\$ 9,948	\$ 17,314	\$ 12,892			
Other	\$ 450,814	\$ 298,836	\$ 448,830	\$ 19,352	\$ 116,523	\$ 2,416			
Program Development Funds	\$ 60,000	\$ -	\$ -	\$ 5,222	\$ -	\$ -			
Total for High Efficiency Program	\$ 963,772	\$ 657,466	\$ 499,834	\$ 380,475	\$ 656,044	\$ 173,155	\$ 232,992	\$ 2,103,497	\$ (660,831)
PowerShare®	\$ 265,000	\$ -	\$ 107,641	\$ 407,028	\$ -	\$ 28,899	\$ 297,573	\$ 16,648	\$ 716,852

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2012 Projected Program Costs, Lost Revenues, and Shared Savings

Residential Program Summary

Budget (Costs, Lost Revenues & Shared Savings)									
	Residential - Current Programs/Measures			Allocation of Costs			Budget (Costs, Lost Revenues & Shared Savings)		
	Costs	Lost Revenues	Shared Savings	Total	Electric	Gas	Electric Costs	Electric	Gas Costs
Residential Conservation & Energy Education	\$ 499,800	\$ 16,525	\$ (3,499)	\$ 512,826	37.1%	62.9%	\$ 185,426	\$ 198,452	\$ 314,374
Refrigerator Replacement	\$ 100,000	\$ 6,145	\$ 300	\$ 106,445	100.0%	0.0%	\$ 100,000	\$ 106,445	\$ -
Home Energy House Call	\$ 150,000	\$ 49,810	\$ 35,700	\$ 235,510	37.1%	62.9%	\$ 55,650	\$ 141,160	\$ 94,350
Residential Comprehensive Energy Education	\$ 81,500	\$ -	\$ -	\$ 81,500	37.1%	62.9%	\$ 30,237	\$ 30,237	\$ 51,264
Home Energy Assistance Plus (continuing)	\$ 150,000	\$ -	\$ -	\$ 150,000	37.1%	62.9%	\$ 55,650	\$ 55,650	\$ 94,350
Power Manager	\$ 875,000	\$ -	\$ 174,000	\$ 1,049,000	100.0%	0.0%	\$ 875,000	\$ 1,049,000	\$ -
Program Development Funds	\$ 140,000	\$ -	\$ -	\$ 140,000	37.1%	62.9%	\$ 51,940	\$ 51,940	\$ 88,060
Energy Star Products	\$ 243,000	\$ 690,225	\$ 63,450	\$ 996,675	100.0%	0.0%	\$ 243,000	\$ 996,675	\$ -
CFL's (Compact Fluorescent Lights)									
Torchieres (Floor lamps)	\$ 31,110	\$ 26,781	\$ 2,955	\$ 60,846	37.1%	62.9%	\$ 11,542	\$ 41,278	\$ 19,568
Energy Efficiency Web Site	\$ 153,000	\$ 121,547	\$ 73,134	\$ 347,681	37.1%	62.9%	\$ 56,763	\$ 251,444	\$ 96,237
Personalized Energy Report Pilot Program	\$ 448,520	\$ 50,150	\$ 53,822	\$ 552,492	37.1%	62.9%	\$ 166,401	\$ 270,373	\$ 282,119
Residential SmartSaver	\$ 2,871,930	\$ 961,183	\$ 399,862	\$ 4,232,975			\$ 1,831,608	\$ 3,192,653	\$ 1,040,322
Total Costs, Net Lost Revenues, Shared Savings									
Home Energy Assistance Pilot Program	\$ 248,064						\$ 144,085		\$ 103,979

C&I DSM Program Summary

Budget (Costs, Lost Revenues, & Shared Savings)									
	High Efficiency Program			Allocations			Budget (Costs, Lost Revenues, & Shared Savings)		
	Costs	Lost Revenues	Shared Savings	Total	Electric	Gas	Electric Costs	Electric	Gas
Lighting	\$ 104,760	\$ 273,388	\$ 5,349	\$ 383,497	100.0%	0.0%	\$ 104,760	\$ 383,497	NA
HVAC	\$ 71,380	\$ 15,925	\$ 7,294	\$ 94,598	100.0%	0.0%	\$ 71,380	\$ 94,598	NA
Motors	\$ 50,339	\$ 10,610	\$ 12,859	\$ 73,808	100.0%	0.0%	\$ 50,339	\$ 73,808	NA
Other	\$ 225,407	\$ 149,418	\$ 224,415	\$ 599,240	100.0%	0.0%	\$ 225,407	\$ 599,240	NA
Program Development Funds	\$ 60,000	\$ -	\$ -	\$ 60,000	100.0%	0.0%	\$ 60,000	\$ 60,000	NA
Total for the High Efficiency Program	\$ 511,885	\$ 449,341	\$ 249,916	\$ 1,211,143			\$ 511,885	\$ 1,211,143	
High Efficiency School Incentive Program	Lost			Shared			Allocations		
	Costs	Revenues	Savings	Total	Electric	Gas	Electric Costs	Electric	Gas
	\$ 104,760	\$ 34,963	\$ 5,349	\$ 145,072	100.0%	0.0%	\$ 104,760	\$ 145,072	NA
	\$ 71,380	\$ 13,323	\$ 7,294	\$ 91,996	100.0%	0.0%	\$ 71,380	\$ 91,996	NA
	\$ 50,339	\$ 10,421	\$ 12,859	\$ 73,619	100.0%	0.0%	\$ 50,339	\$ 73,619	NA
Motors	\$ 225,407	\$ 149,418	\$ 224,415	\$ 599,240	100.0%	0.0%	\$ 225,407	\$ 599,240	NA
Other	\$ 451,885	\$ 208,125	\$ 249,916	\$ 909,927			\$ 451,885	\$ 909,927	
Total for the High Efficiency School Incentive Program									
PowerShare® Program	Costs	Lost			Shared			Allocations	
	\$ 265,000			\$ 107,641	\$ 372,641	Electric	Gas	Electric Costs	Budget (Costs, Lost Revenues, & Shared Savings)
						100.0%	0.0%	\$ 265,000	
								\$ 372,641	NA
Total C&I DSM Program	\$ 1,228,771	\$ 657,466	\$ 607,474	\$ 2,493,710					\$ 2,493,710
Total Program	\$ 4,100,701	\$ 1,618,649	\$ 1,007,336	\$ 6,726,886					

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Duke Energy Kentucky  
Demand Side Management Cost Recovery Rider (DSMR)  
Summary of Calculations for Programs

January, 2012 through December, 2012

	Program Costs (A)
<u>Electric Rider DSM</u>	
Residential Rate RS	\$ 3,192,653
Distribution Level Rates Part A DS, DP, DT, GS-FL, EH & SP	\$ 2,121,069
Transmission Level Rates & Distribution Level Rates Part B	\$ 372,641
<u>Gas Rider DSM</u>	
Residential Rate RS	\$ 1,040,322

(A) See Appendix B, page 2 of 6.

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Duke Energy Kentucky  
Demand Side Management Cost Recovery Rider (DSMR)  
Summary of Billing Determinants

Year 2012

Projected Annual Electric Sales kWH

Rates RS 1,476,126,000

Rates DS, DP, DT,  
GS-FL, EH, & SP 2,314,664,224

Rates DS, DP, DT,  
GS-FL, EH, SP, & TT 2,539,901,000

Projected Annual Gas Sales CCF

Rate RS 63,317,380

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Duke Energy Kentucky  
Demand Side Management Cost Recovery Rider (DSMR)  
Summary of Calculations

January, 2012 through December, 2012

Rate Schedule Riders <u>Electric Rider DSM</u> Residential Rate RS	True-Up Amount (A)	Expected Program Costs (B)	Total DSM Revenue Requirements	Estimated Billing Determinants (C)	DSM Cost Recovery Rider (DSMR)
Distribution Level Rates Part A DS, DP, DT, GS-F.L. EH & SP	\$ (662,467)	\$ 2,121,069	1,458,603	2,314,664,224 kWh	\$ 0.000630 \$/KWh
Transmission Level Rates & Distribution Level Rates Part B TT	\$ 718,627	\$ 372,641	1,091,268	2,539,901,000 kWh	\$ 0.000430 \$/KWh
Distribution Level Rates Total DS, DP, DT, GS-F.L. EH & SP					\$ 0.001060 \$/KWh
<u>Gas Rider DSM</u> Residential Rate RS	\$ (4,419,719)	\$ 1,040,322	(3,379,397)	63,317,380 CCF	\$ (0.053372) \$/CCF
Total Rider Recovery			\$ 1,082,259		
Customer Charge for HEA Program <u>Electric No. 4</u> Residential Rate RS			Annual Revenues \$ 144,085	Number of Customers 120,071	Monthly Customer Charge \$ 0.10
<u>Gas No. 5</u> Residential Rate RS			\$ 103,979	86,649	\$ 0.10
Total Customer Charge Revenues			\$ 248,064		
Total Recovery			\$ 1,330,323		

(A) (Over)/Under of Appendix B page 1 multiplied by the average three-month commercial paper rate for 2011 to include interest on over or under-recovery in accordance with the Commission's order in Case No. 95-312. Value 1.002475  
(B) Appendix B, page 2.  
(C) Appendix B, page 4.

Appendix B

Reconciliation of Lost Revenues and Shared Savings

The calculation incorporates a reduction in the revenue requirements due to an overstatement in the estimated load.

Applicable Programs	Case No. 2010-00445			New Values			Increase (Decrease) in Values			Increase (Decrease) in Values						
	As Filed	Lost	Shared	Lost	Shared	Revenues	Lost	Shared	Revenues (A)	Shared	Savings (A)					
	Revenues	Savings	Revenues	Savings	Revenues	Savings	Revenues	Savings	Revenues (A)	Savings (A)						
Residential Home Energy House Call	\$	30,643	\$	(384)	\$	26,506	\$	(3,454)	\$	(4,137)	\$	(3,070)	\$	(4,148)	\$	(3,079)

(A) Difference in Lost Revenues/Shared Savings multiplied by 1.002733 for 2010 for the average three-month commercial paper rate to include interest on over or under-recovery in Case No. 2010-00445





**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-029**

**REQUEST:**

Refer to Appendix C, page 10. Explain Duke Kentucky's efforts to encourage participation in the Payment Plus Enrollment program.

**RESPONSE:**

Duke Energy Kentucky utilizes its vendor in order to recruit customers to participate in the Payment Plus program. Using a list of potential customers provided to them by Duke Energy Kentucky, the vendor removes any customer who has participated in the program in years past and sends a letter describing the program to the remaining customers. Included in this letter are the dates and times of scheduled classes. The customer is asked to contact the vendor to sign-up for a course at a particular date and time. Make-up courses are also offered to those customers who may have missed their initial scheduled time.

**PERSON RESPONSIBLE:** Rick Mifflin



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-030**

**REQUEST:**

Refer to Appendix D, page 9. Explain the following statement, which is the last sentence of the narrative under Power Manager Incentives, “[l]ike the enrollment incentive, the event incentives are also increased for each AC unit that is controlled.”

**RESPONSE:**

Customers with multiple air conditioning units on the Power Manager program will receive an enrollment/installation credit for each unit (example – customers with two units on the 1.0 kW option will receive a \$50 (2 X \$25) installation credit). Power Manager customers with multiple air conditioning units will receive event credits for each unit (example – customers with two units on the 1.0 kW option will receive an event credit twice the amount of a customer with one unit on the 1.0 kW option. Two unit customers will receive a minimum of \$10 (2 X \$5) in seasonal event credits.).

**PERSON RESPONSIBLE:** Rick Mifflin







**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-032**

**REQUEST:**

Refer to Appendix D, page 55. Explain whether customers are asked about the age of their air conditioners when signing up for Power Manager.

**RESPONSE:**

Customers are not asked about the age of their air conditioner in the enrollment process. However, as suggested in the study, Duke Energy Kentucky will utilize these findings when targeting customers to receive Power Manager offers.

**PERSON RESPONSIBLE:** Rick Mifflin





**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-033**

**REQUEST:**

Refer to Appendix E of the Application. Explain whether a Kentucky Residential Smart Saver CFL Program process and impact evaluation was prepared.

**RESPONSE:**

A Kentucky Residential Smart Saver CFL Program process and impact evaluation has not been performed exclusively for Kentucky, however, an update memorandum dated January 12, 2011, (Appendix F) highlights process evaluation results specific to Kentucky for a small sample of customers.

There is an evaluation for Kentucky customers in progress that includes a full process evaluation with management and third-party implementation interviews and customer surveys. This evaluation also includes an impact evaluation that will estimate program impacts through a lighting logger study and engineering estimates using the results of the logger study and customer survey responses about CFL use and use conditions. This report is expected to be completed by July 2012.

**PERSON RESPONSIBLE:** Thomas J. Wiles



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-034**

**REQUEST:**

Refer to Appendix E, page 9. Describe the efforts Duke Kentucky expects to employ in 2012 to market the Residential Smart Saver CFL Program

**RESPONSE:**

Marketing efforts will include activating the CFL offer through the IVR/WEB/OLS platforms. Customers will authenticate by choosing one of the platforms and the CFLs will ship directly to the customers home. Marketing channels may include low-cost/no-cost channels (i.e. earned media, banner ads, social media), direct mail, radio, bill inserts and bill messages. OLS (on-line service) customers will be offered CFLs upon logging on to view their bill. Additional marketing efforts may include utilizing the Property Manager program and door-to-door canvassing.

**PERSON RESPONSIBLE:** Rick Mifflin



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-035**

**REQUEST:**

Refer to Appendix E, page 1 I. It states, "Duke Energy is partnering with NC and Ohio property managers to ship 'bulk' CFLs to rental properties." Explain whether there is anything similar planned for the Kentucky program

**RESPONSE:**

Duke Energy Kentucky anticipates including a Property Manager program expansion as part of an upcoming DSM portfolio application for Commission consideration and approval.

**PERSON RESPONSIBLE:** Rick Mifflin



**STAFF-DR-01-036**

**REQUEST:**

Refer to Appendix E, page 47. Provide the calculations which show how the annual 29,068 kWh savings and 45 kWh per bulb were determined

**RESPONSE:**

Bulb savings is calculated as the wattage difference between the bulb installed and the bulb replaced multiplied by the average hours of use for a bulb installed into that room type. Hours of use by room type were obtained through a lighting logger study and adjusted upward by 9.5% to account for day length. These values are in Appendix E, page 37 of 68, Table 8.

Refer to Appendix E, page 40 of 68, Table 11. The total number of bulbs installed by surveyed participants is 551 (the value in the table, 561, is a typo). Gross savings per bulb was calculated to be 52.76. The equation below shows that this number, when multiplied by the total number of bulbs, yields the total gross savings of 29,068 kWh.

$$\text{Gross Savings} = \text{Total Bulbs} * \text{Savings per Bulb} = 551 * 52.755 = \mathbf{29,068 \text{ kWh}}$$

Program freeridership was estimated at 40.74%. Spillover was estimated at 25.56%. This yields a final net to gross ratio of 84.82%. This is the proportion of gross savings which are attributable to the program. Net savings was calculated as follows:

$$\begin{aligned} \text{Net Savings} &= \text{Gross Savings} - \text{Freerider Savings} + \text{Spillover Savings} \\ &= 29,068 - 0.4074(29,068) + 0.2556(29,068) \\ &= 29,068 - 11,842 + 7,430 \\ &= \mathbf{24,656 \text{ kWh}} \end{aligned}$$

$$\text{Net Savings per Bulb} = \text{Net Savings} / \text{Total Bulbs} = 24,656 / 551 = \mathbf{44.75 \text{ kWh}}$$



**PERSON RESPONSIBLE:** Thomas J. Wiles



**Duke Energy Kentucky**  
**Case No. 2011-448**  
**Staff First Set Data Requests**  
**Date Received: January 6, 2012**

**STAFF-DR-01-037**

**REQUEST:**

Refer to Appendix G, pages 4 and 5, where seven recommendations are identified for the Powershare program. Provide the status of Duke Kentucky's actions and/or responses to each of these recommendations

**RESPONSE:**

<b>Recommendations</b>	<b>Actions and/or Responses</b>
RECOMMENDATION 1: If Duke Energy's notification system allows customer to designate their preference for method of contact, Duke Energy should consider reviewing with customers at the beginning of each event seasons their preferences. Duke Energy should also remind customers who choose more than one method that the notification system will escalate by using different methods of making contact until the customers respond.	This is planned to be part of communications to customers after sign-up period ends in April 2012 and before communications test in late May.
RECOMMENDATION 2: Duke Energy should consider providing customers with a summary sheet that highlights the program's key components and their company's specific commitment in their agreement. Duke Energy should also consider developing a process flow chart that illustrates the sequence of events during an event day, starting with the identification of event conditions, notification of customers, and the different paths to settlement should the customer choose to reduce load or buy through.	This is planned to be part of communications to customers after sign-up period ends in April 2012

<p>RECOMMENDATION 3: Duke Energy should consider developing a one-page explanation of the PowerShare program aimed at executive-level decision makers who may not have the technical background to understand electric industry jargon. Duke Energy can informally test this material with the intended target audience, namely executives who may not be familiar with the electric industry.</p>	<p>This is being developed and is under review currently.</p>
<p>RECOMMENDATION 4: If not already being done, Duke Energy should track the discrepancy between the estimated buy-through prices provided to customers prior to an event compared with the settled buy-through price. If customers become concerned that there are repeated discrepancies that are not in the customers' favor, Duke Energy account managers will need to manage customers' future expectations better. Duke Energy may wish to ask account managers to remind customers about the volatility of market prices, and perhaps be able to provide past data on the tracked discrepancies. The past data should show that while sometimes the discrepancy is in the customers' favor, sometimes it is not. TecMarket Works is not recommending that Duke Energy be asked to take responsibility for predicting prices on the energy market. However, tracking the discrepancies may allow Duke Energy to anticipate customers' concerns and manage expectations before customers perceive any problems. Customers might also be reminded that PowerShare is intended to buffer customers from the energy market's price volatility by giving them advance notice to curtail their energy use.</p>	<p>We performed this review of the differences between day ahead and real time prices from 2011 and found nothing dramatic or consistent in the discrepancies for 7 economic events. In addition, since Duke Energy Kentucky has moved from MISO to the PJM Interconnection in 2012, we are unsure of how useful this history will be. Duke Energy will continue to monitor these differences and take appropriate action with customers as is warranted.</p>
<p>RECOMMENDATION 5: If the account managers are not already doing so, Duke Energy should consider following-up with first year PowerShare participants to review their fixed and firm level load reduction commitments. Duke Energy should also consider providing customers with the ability to adjust their commitments for the next event season, while experience of the current event season is still fresh in their minds. This will</p>	<p>PowerShare contracts are annual commitments, so these reviews of curtailment levels already occur as part of the annual sign-up effort that typically runs from November 1 to March 15.</p>

allow customers to provide feedback to Duke Energy on whether their load reduction commitments were easily achieved, just right, or too onerous.	
RECOMMENDATION 6: Duke Energy should consider reviewing PowerShare customer bills to see if there are ways to improve the transparency of the buy-through charges and capacity premium credits. While space limitations on the monthly bills would not allow full details to be included on each bill, Duke Energy might consider including reminders on the bill to go to the EPO website. The EPO website contains detailed graphs that explicitly tie the information about the settlement incentive with their confirmation of load reduction. This reminder may help PowerShare customers to remember to refer to the website where they can clearly see the link between actions they take to reduce load and the associated costs or benefits.	We hear this concern much more often in Ohio than Kentucky, and frankly bill format changes can be complicated. We are not undertaking any effort in this area for Duke Energy Kentucky at this time.
RECOMMENDATION 7: If the account managers are not already doing this on a consistent basis, Duke Energy can consider asking current customers if they would be willing to share their honest experiences with prospective customers, so that the account managers could have a ready list of companies willing to speak with other companies. Duke Energy may also want to look at past participation records. If there is favorable data such as 1) a large proportion of customers in the prospects' sector do participate, or 2) there is an increasing trend in participation in a prospect's sector, that information may help persuade the prospect to participate.	We have included this in our training for Account Managers for this PowerShare sign-up season.

**PERSON RESPONSIBLE:** Kevin Bright



**STAFF-DR-01-038**

**REQUEST:**

Refer to Appendix G page 8.

- A. Provide the number of economic and emergency events that occurred during the 12 months ended June 30, 2011.
- B. Provide the number of economic and emergency events that have occurred since July 1, 2011

**RESPONSE:**

- A. Between July 1, 2010 and June 30, 2011, zero (0) emergency PowerShare® CallOption events and 7 economic PowerShare® CallOption events occurred.
- B. Starting July 1, 2011 and up to the date of filing of responses, zero (0) emergency PowerShare® CallOption events and 5 economic PowerShare® CallOption events have occurred to date. In addition, one (1) PowerShare® QuoteOption event has been implemented.

**PERSON RESPONSIBLE:** Kevin Bright





**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-039**

**REQUEST:**

Refer to Appendix G, page 15. It indicates that Duke Energy is pilot testing a concept for an automated demand response Powershare option that would be targeted to customers in commercial office building spaces. The pilot is currently being conducted in Ohio and program staff are evaluating whether it would be appropriate for the other states in which Duke Energy offers a Powershare program. Provide the status of the pilot program in Ohio and whether, or when, determinations will be made on its appropriateness in other states

**RESPONSE:**

At this time, Duke Energy Ohio has over 800 kW of installed Auto DR capability and another 150 kW under contract with installation pending during the first quarter of 2012. No customer installations were completed until after the Summer of 2011—so our experiences are limited to customer acquisition and installation at this point. We are continuing to talk to some prospective participants and hope to add a few more customers during early 2012. Program performance will be evaluated in the fourth quarter of 2012, at which point program costs, required incentive levels to garner participation and cost effectiveness will be tested to determine if a future offer is appropriate.

**PERSON RESPONSIBLE:** Kevin Bright



**Duke Energy Kentucky  
Case No. 2011-448  
Staff First Set Data Requests  
Date Received: January 6, 2012**

**STAFF-DR-01-040**

**REQUEST:**

Explain why the proposed pilot Nonresidential Smart Saver Custom Energy Efficiency Program was not filed as a new program in this Application, but was filed as a separate application that was docketed as Case No. 2011-00471.

**RESPONSE:**

The Application was filed separate in order for this Commission to consider it independently and on its own merits.

**PERSON RESPONSIBLE:** Kevin Bright