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Dianne B. Kuhnell  
Senior Paralegal

**VIA HAND DELIVERY**

March 9, 2009

**RECEIVED**  
MAR 09 2009  
PUBLIC SERVICE  
COMMISSION

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

Re: Case No. 2008-00473

Dear Mr. Derouen:

Enclosed please find for filing an original and twelve copies of the Responses to Initial Data Requests from the Commission Staff to Duke Energy Kentucky in the above captioned case.

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

Sincerely,

Dianne B. Kuhnell  
Senior Paralegal

cc: Dennis Howard II

VERIFICATION

**RECEIVED**

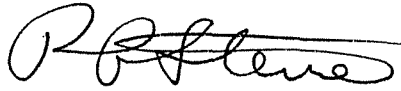
MAR 09 2009

**PUBLIC SERVICE  
COMMISSION**

State of Ohio            )  
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County of Hamilton    )

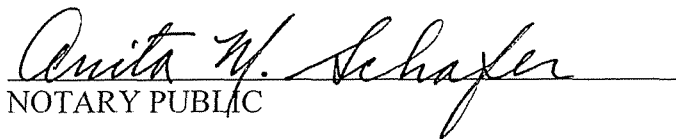
SS:

The undersigned, Richard G. Stevie, being duly sworn, deposes and says that I am employed by the Duke Energy Corporation affiliated companies as Managing Director, Customer Market Analysis; that on behalf of Duke Energy Kentucky, Inc., I have supervised the preparation of the responses to the foregoing responses to information requests; and that the matters set forth in the foregoing response to information requests are true and accurate to the best of my knowledge, information and belief after reasonable inquire.



Richard G. Stevie, Affiant

Subscribed and sworn to before me by Richard Stevie on this 6<sup>th</sup> day of March, 2009.

  
NOTARY PUBLIC

My Commission Expires:



**ANITA M. SCHAFER**  
Notary Public, State of Ohio  
My Commission Expires  
November 4, 2009



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**Duke Energy Kentucky, Inc.**  
**Case No. 2008-00473**  
**Kentucky Public Service Commission**  
**First Set of Data Requests**  
**Request Date: February 27, 2009**

**KyPSC-DR-01-001**

**REQUEST:**

Refer to Section B on page 11 of the application. Clarify whether GoodCents Solutions will continue to play a role in Duke Energy's DSM program after the transition to Wisconsin Energy Conservation Corporation and Thermo-Scan Inspections. If yes, how will the three entities work together to support Duke Kentucky's DSM programs?

**RESPONSE:**

Good Cents Solutions (dba Good Cents) will continue as the implementation vendor for DE-Kentucky Power Manager Program. Wisconsin Energy Conservation Corporation will be managing the DE-Kentucky Smart Saver Residential and Non-Residential Programs and utilize Thermo-Scan Inspections for the DE-Kentucky Home Energy House Call Program.

**PERSON RESPONSIBLE:** Michael Goldenberg



**Duke Energy Kentucky, Inc.**  
**Case No. 2008-00473**  
**Kentucky Public Service Commission**  
**First Set of Data Requests**  
**Request Date: February 27, 2009**

**KyPSC-DR-01-002**

**REQUEST:**

Refer to Appendix I of Duke Kentucky's application, page 1 of 6.

- a. Column 13, "(Over)/Under Collection, Gas" shows a total undercollection of \$2,724,504 for residential programs. Explain how an under-collection of this magnitude occurred. Include all workpapers, spreadsheets, calculations, etc. necessary to support the explanation.
- b. Column 9, "(Over)/Under Collection" for commercial programs references footnote E, which reads "Column 4 + Column 5 + Column 6 + Column 7 - Column 8." However, the total over-collection amount for high efficiency programs of (\$925,623) in Column 9 does not comport with footnote E because Column 6 "Shared Savings" is not included in the calculation of that total amount. Clarify whether there is an error in the footnote or the calculation and provide a revised Appendix I as well as revised versions of any other affected appendices.

**RESPONSE:**

- a. The under-collection pertains to the reconciliation for the period July 1, 2007 through June 30, 2008. To more fully understand what happened, we must go back a couple years. In April 2006, the Company was charging approximately \$0.133/MCF to make up for a previous under-collection. (The rider was updated to \$0.133/MCF as a result of an April 2006 order on the previous reconciliation for July 1, 2004 to June 30, 2005 for Case No. 2005-00402). Because this rider went into effect so late in the cycle and the previous rider was even larger, the under-collection from the 2004 to 2005 period became a large over-collection of \$1,046,248. As such, this led to a new rider of \$-0.056222/MCF calculated from the reconciliation for the period July 1, 2005 to June 30, 2006 (Case No. 2006-00426). However, the credit on the rider was incorrectly applied at a CCF level. It should have been adjusted from a credit per MCF to a credit per CCF. This meant that instead of giving a credit of \$0.056222 per MCF, the credit of \$0.056222 was given per CCF (equivalent to a credit of \$0.56222 per MCF) for a full year. This was not uncovered until the current reconciliation period of July 1, 2007 to June 30, 2008 was already completed. The following table details the calculations.



July 1, 2007 to June 30, 2008		
<u>Line</u>	<u>Category</u>	<u>Gas</u>
1	Program Expenditures	\$ 529,150
2	2007 Reconciliation	\$ (1,456,207)
3	Rider Collection	\$ (3,651,561)
(1+2-3)	2008 Reconciliation	\$ 2,724,504 (Note)

(Note) The rider collection would have been (\$365,156) if the credit in the rider had been correctly applied. In that case, the 2008 reconciliation would have been an over-collection of (\$561,901) instead of an under-collection of \$2,724,504.

- b. There was an error in the equation in the spreadsheet used to compute the (Over)/Under Collection. A revised version of Appendix I is provided in Attachment KyPSC-DR-01-002.

**PERSON RESPONSIBLE:** Richard G. Stevie



Appendix I

2009 Projected Program Costs, Lost Revenues, and Shared Savings

Residential Program Summary

	Costs		Lost Revenues		Shared Savings		Total		Allocation of Costs		Budget (Costs, Lost Revenues, & Shared Savings)	
									Electric	Gas	Electric	Gas
Residential - Current Programs/Measures												
Residential Conservation & Energy Education	\$ 499,800	\$ 16,525	\$ (3,499)	\$ 512,826					37.1%	62.9%	\$ 185,426	\$ 314,374
Refrigerator Replacement	\$ 100,000	\$ 6,145	\$ 300	\$ 106,445					100.0%	0.0%	\$ 100,000	\$ -
Home Energy House Call	\$ 150,000	\$ 49,810	\$ 35,700	\$ 235,510					37.1%	62.9%	\$ 55,650	\$ 94,350
Residential Comprehensive Energy Education	\$ 81,500	\$ -	\$ -	\$ 81,500					37.1%	62.9%	\$ 30,237	\$ 51,264
Home Energy Assistance Plus (continuing)	\$ 150,000	\$ -	\$ -	\$ 150,000					37.1%	62.9%	\$ 55,650	\$ 94,350
Power Manager	\$ 875,000	\$ -	\$ 174,000	\$ 1,049,000					100.0%	0.0%	\$ 875,000	\$ -
Program Development Funds	\$ 140,000	\$ -	\$ -	\$ 140,000					37.1%	62.9%	\$ 51,940	\$ 88,060
Energy Star Products	\$ 243,000	\$ 690,225	\$ 63,450	\$ 996,675					100.0%	0.0%	\$ 243,000	\$ -
CFL's (Compact Fluorescent Lights)												
Torchieres (Floor lamps)												
Energy Efficiency Web Site	\$ 31,110	\$ 26,781	\$ 2,955	\$ 60,846					37.1%	62.9%	\$ 11,542	\$ 41,278
Personalized Energy Report Pilot Program	\$ 153,000	\$ 121,547	\$ 73,134	\$ 347,681					37.1%	62.9%	\$ 56,763	\$ 251,444
Total Costs, Net Lost Revenues, Shared Savings	\$ 2,423,410	\$ 911,033	\$ 346,040	\$ 3,680,483							\$ 1,665,207	\$ 2,922,280
Home Energy Assistance Pilot Program	\$ 247,369										\$ 143,120	\$ 104,249

C&I DSM Program Summary

	Costs		Lost Revenues		Shared Savings		Total		Allocations		Budget (Costs, Lost Revenues, & Shared Savings)	
									Electric	Gas	Electric	Gas
High Efficiency Program												
Lighting	\$ 104,760	\$ 273,388	\$ 5,349	\$ 383,497					100.0%	0.0%	\$ 104,760	\$ 383,497
HVAC	\$ 71,380	\$ 15,925	\$ 7,294	\$ 94,598					100.0%	0.0%	\$ 71,380	\$ 94,598
Motors	\$ 50,339	\$ 10,610	\$ 12,859	\$ 73,808					100.0%	0.0%	\$ 50,339	\$ 73,808
Other	\$ 225,407	\$ 149,418	\$ 224,415	\$ 599,240					100.0%	0.0%	\$ 225,407	\$ 599,240
Total for the High Efficiency Program	\$ 451,885	\$ 449,341	\$ 249,916	\$ 1,151,143							\$ 451,885	\$ 1,151,143
High Efficiency School Incentive Program												
Lighting	\$ 104,760	\$ 34,963	\$ 5,349	\$ 145,072					100.0%	0.0%	\$ 104,760	\$ 145,072
HVAC	\$ 71,380	\$ 13,323	\$ 7,294	\$ 91,996					100.0%	0.0%	\$ 71,380	\$ 91,996
Motors	\$ 50,339	\$ 10,421	\$ 12,859	\$ 73,619					100.0%	0.0%	\$ 50,339	\$ 73,619
Other	\$ 225,407	\$ 149,418	\$ 224,415	\$ 599,240					100.0%	0.0%	\$ 225,407	\$ 599,240
Total for the High Efficiency School Incentive Program	\$ 451,885	\$ 208,125	\$ 249,916	\$ 909,927							\$ 451,885	\$ 909,927
PowerShare® Program	\$ 265,000		\$ 107,641	\$ 372,641							\$ 265,000	\$ 372,641
Total C&I DSM Program	\$ 1,168,771	\$ 657,466	\$ 607,474	\$ 2,433,710							\$ 1,168,771	\$ 2,433,710
Total Program	\$ 3,592,181	\$ 1,568,499	\$ 953,514	\$ 6,114,193							\$ 2,433,710	\$ 3,722,280

Duke Energy Kentucky  
Demand Side Management Cost Recovery Rider (DSMR)  
Summary of Calculations for 2006 Programs

January, 2008 through December, 2008

	Program Costs (A)
<u>Electric Rider DSM</u>	
Residential Rate RS	\$ 2,922,280
Distribution Level Rates Part A DS, DP, DT, GS-FL, EH & SP	\$ 2,061,069
Transmission Level Rates & Distribution Level Rates Part B	\$ 372,641
<u>Gas Rider DSM</u>	
Residential Rate RS	\$ 758,203

(A) See Appendix I, page 2 of 5.

Appendix I

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

Year	2009
Projected Annual Electric Sales kWh	
Rates RS	1,460,230,000
Rates DS, DP, DT, GS-FL, EH, & SP	2,362,842,000
Rates DS, DP, DT, GS-FL, EH, SP, & TT	2,559,959,000
Projected Annual Gas Sales CCF	
Rate RS	53,671,760

Appendix I

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

January, 2009 through December, 2009

Rate Schedule Riders	True-Up Amount (A)	Expected Program Costs (B)	Total DSM Revenue Requirements	Estimated Billing Determinants (C)	DSM Cost Recovery Rider (DSMR)
Electric Rider DSM Residential Rate RS	\$ 51,411	\$ 2,922,280	\$ 2,973,691	1,460,230,000 kWh	\$ 0.002036 \$/kWh
Distribution Level Rates Part A DS, DP, DT, GS-FL, EH & SP	\$ (191,967)	\$ 2,061,069	\$ 1,869,102	2,362,842,000 kWh	\$ 0.000791 \$/kWh
Transmission Level Rates & Distribution Level Rates Part B TT	\$ (246,847)	\$ 372,641	\$ 125,794	2,559,959,000 kWh	\$ 0.000049 \$/kWh
Distribution Level Rates Total DS, DP, DT, GS-FL, EH & SP	\$ 2,832,667	\$ 758,203	\$ 3,590,870	53,671,760 CCF	\$ 0.066904 \$/CCF
Gas Rider DSM Residential Rate RS			\$ 8,559,456		
Total Rider Recovery					
Customer Charge for IEA Program Electric No.4 Residential Rate RS			Annual Revenues \$ 143,120	Number of Customers 119,267	Monthly Customer Charge \$ 0.10
Gas No. 5 Residential Rate RS			\$ 104,249	86,874	\$ 0.10
Total Customer Charge Revenues			\$ 247,369		
Total Recovery			\$ 8,806,825		

(A) (Over)/Under of Appendix I page 1 multiplied by 1.0397 for 2008 for the average three-month commercial paper rate to include interest on over or under-recovery.  
 (B) Appendix I, page 2.  
 (C) Appendix I, page 4.

Reconciliation of Lost Revenues and Shared Savings Based Upon Impact Evaluation Studies

Appendix I

Applicable Programs	Case 2006-00426 As Filed & Adjusted		New Values		Increase (Decrease) in values		Comments
	Lost Revenues	Shared Savings	Lost Revenues	Shared Savings	Lost Revenues	Shared Savings	
Residential Conservation and Energy Education	\$ 3,931.00	\$ (1,885.00)	-	\$ -	-	-	No new values
Refrigerator Replacement	\$ 1,932.00	\$ 143.00	\$ -	\$ -	-	-	No new values
Residential Home Energy House Call	\$ 15,426.00	\$ 34,926.00	\$ 6,969	\$ 4,022	\$ (8,457)	\$ (30,904)	Based upon evaluation
Power Manager	\$ -	\$ 215,573	\$ -	\$ -	-	-	No new values
Energy Star Products	\$ 95,594.00	\$ 72,908	\$ -	\$ -	-	-	No new values
Energy Efficiency Website	\$ 45,936.00	\$ 72,630.00	\$ -	\$ -	-	-	No new values
Personal Energy Report (PER)	\$ -	\$ -	\$ -	\$ -	-	-	No new values
C&I High Efficiency Incentive (for Businesses and Schools)	\$ 49,461.00	\$ 79,233	\$ -	\$ -	-	-	No new values
Lighting	\$ 1,221.00	\$ 3,476	\$ -	\$ -	-	-	No new values
HVAC	\$ -	\$ -	\$ -	\$ -	-	-	No new values
Motors	\$ -	\$ -	\$ -	\$ -	-	-	No new values
PowerShare	\$ -	\$ -	\$ -	\$ -	-	-	No new values

Applicable Programs	Case 2007-00369 As Filed		New Values		Increase (Decrease) in values		Comments
	Lost Revenues	Shared Savings	Lost Revenues	Shared Savings	Lost Revenues	Shared Savings	
Residential Conservation and Energy Education	\$ 7,107	\$ (1,710)	\$ -	\$ -	-	-	No new values
Refrigerator Replacement	\$ 2,840	\$ 123	\$ -	\$ -	-	-	Based upon evaluation
Residential Home Energy House Call	\$ 25,180	\$ 39,446	\$ 11,466.63	\$ 4,626.07	\$ (13,713)	\$ (34,820)	No new values
Power Manager	\$ 366,355	\$ 164,569	\$ -	\$ -	-	-	No new values
Energy Star Products	\$ 1,448	\$ 134,399	\$ -	\$ -	-	-	No new values
Energy Efficiency Website	\$ -	\$ 1,066	\$ -	\$ -	-	-	No new values
Personal Energy Report (PER)	\$ -	\$ -	\$ -	\$ -	-	-	No new values
C&I High Efficiency Incentive (for Businesses and Schools)	\$ 174,459	\$ 115,659	\$ -	\$ -	-	-	No new values
Lighting	\$ 2,173	\$ 1,038	\$ -	\$ -	-	-	No new values
HVAC	\$ 136	\$ 95	\$ -	\$ -	-	-	No new values
Motors	\$ -	\$ 5,569	\$ -	\$ -	-	-	No new values
PowerShare	\$ -	\$ -	\$ -	\$ -	-	-	No new values

Lost Revenues and Shared Savings for Appendix I Page 1 of 6

Applicable Programs	Case No. 2006 & 2007		Case No. 2008-00		Total	
	Lost Revenues	Shared Savings	Lost Revenues	Shared Savings	Lost Revenues	Shared Savings
Residential Conservation and Energy Education	\$ -	\$ -	\$ 15,049	\$ 39,588	\$ 15,049	\$ 39,588
Refrigerator Replacement	\$ -	\$ -	\$ 7,704	\$ (77)	\$ 7,704	\$ (77)
Residential Home Energy House Call	\$ (22,170)	\$ (65,724)	\$ 20,407	\$ 3,770	\$ (1,763)	\$ (61,954)
Power Manager	\$ -	\$ -	\$ -	\$ 166,632	\$ -	\$ 166,632
Energy Star Products	\$ -	\$ -	\$ 501,222	\$ 24,016	\$ 501,222	\$ 24,016
Energy Efficiency Website	\$ -	\$ -	\$ 4,937	\$ 5,898	\$ 4,937	\$ 5,898
Personal Energy Report (PER)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I High Efficiency Incentive (for Businesses and Schools)	\$ -	\$ -	\$ 388,727	\$ 740,833	\$ 388,727	\$ 740,833
Lighting	\$ -	\$ -	\$ 2,073	\$ -	\$ 2,073	\$ -
HVAC	\$ -	\$ -	\$ 151	\$ 153	\$ 151	\$ 153
Motors	\$ -	\$ -	\$ -	\$ 4,308	\$ -	\$ 4,308
PowerShare	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -





**Duke Energy Kentucky, Inc.**  
**Case No. 2008-00473**  
**Kentucky Public Service Commission**  
**First Set of Data Requests**  
**Request Date: February 27, 2009**

**KyPSC-DR-01-003**

**REQUEST:**

Refer to Appendix I of Duke Kentucky's application, page 1 of 6. Column 4, "Program Expenditures" includes amounts that total \$2,148,273 for all programs from July, 2007 through June, 2008. This amount equals approximately 60 percent of the projected program costs of \$3,592,181 shown in Column 1.

- a. Explain why actual program expenditures were so much less than the projected program costs for the 12 months ended June 2008.
- b. Column 1 on page 2 of 6 of Appendix I shows the projected costs for the 2009 program year. Given that actual expenditures for the prior program year equaled only 60 percent of the budget, explain why the projected costs for the new program year are at the same level, \$3,592,181, as in the prior program year. Identify and describe any changes Duke Kentucky intends to implement to increase actual expenditures.

**RESPONSE:**

- a. Variance explanations are provided below for each program.

**1) Power Manager**

- Budget: \$875,000
- Expenditures: \$468,224.59
- Variance: \$406,775.41

Explanation: 1,260 installations were completed which is approximately 50% less than originally projected during the 07/08 timeframe. Installations were slow due to the need to test switches as a result of paging and software issues. As a result, less dollars were spent on switch installations, incentives and marketing. In addition, the cooler weather overall drove paging costs down.

**2.) Personal Energy Report (PER)**

- Budget: \$153,000
- Expenditures: \$0
- Variance: \$153,000

Explanation: A PER budget is listed in the 2007/2008 DSM rider appendix; however, PER was only a Summer 2006 pilot. As a result there were no expenditures in fiscal 2007/2008. There was

a ruling in May of 2008 that extended the PER, but no money was spent in May or June of 2008 since the Commission decision came near the end of the spending period.

**3.) Online Web Kit**

- Budget: \$31,110
- Expenditures: \$11,190
- Difference: \$19,920

Explanation: Program participation was less than projected. Research into participation showed that the audit was easy to complete but not as easy to find on the website as anticipated. This has been remedied. Additionally, there were some special promotional campaigns tested specific to this program which did provide increased participation but not on a long term basis.

**4.) Residential Conservation & Energy Education**

<u>Goal</u>	<u>Actual Participation</u>	<u>Budget Am't</u>	<u>Expenditures</u>
250	265	\$500,000	\$334,534

Explanation: Participation goals were met. Average cost per home ended up less than budget

**5.) Refrigerator Replacement**

<u>Goal</u>	<u>Actual Participation</u>	<u>Budget Am't</u>	<u>Expenditures</u>
100	85	\$100,000	\$86,643

Explanation: Participation goals and expenditures are based on actual home owners vs. renters. The mix of these 2 factors determine participation which resulted in the minimal under performance.

**6.) Payment Plus Program**

<u>Goal</u>	<u>Actual Participation</u>	<u>Budget Am't</u>	<u>Expenditures</u>
186	168 Energy Ed	\$150,000	\$144,671

Explanation: Participation goals were a bit under goal due to smaller than normal response rates on direct market mailings, however the drop out rate was lower than past participants.

**7.) KY NEED Budget**

- Budget: \$81,500
- Expenditures: \$45,781

Explanation: Contract Term is on a Calendar basis Jan-December. Expenses typically reach full budget after the fiscal June cutoff by December of each year. All budgeted funds were spent by December 31, 2008.

**8.) Smart Saver Non-residential**

- Budget: \$903,770
- Expenditures: \$441,958
- Variance: \$461,812

Explanation: Budget for filing year July 2007 through June 2008 totaled \$309,576. The dollars were available to all eligible non-residential customers including schools. In May of 2008 the Commission ruled on Duke Energy's 2007 filing, increasing the budget to \$903,770. Half of that budget (\$451,885) was allocated to a new "schools" program. The approval timing did not correspond with how schools plan for projects of this type. They typically seek approval for

projects and go out for bid in the fall preceding the summer when the work will actually take place. It wasn't until the summer of 2008, that schools were able to take advantage of these incentives. The other \$451,885, allocated to the business customers was spent. Additionally, labor charges were split across three jurisdictions saving 2/3 on those budget dollars and because of the growing participation in the program, very little monies were spent on marketing.

**9.) Home Energy HouseCall**

- Budget: \$150,000
- Expenditures: \$120,904
- Variance: \$29,096

Explanation: Exceeded participation goal of 500 by 68 audits. The Company was able to exceed the goal without marketing costs due to pent up demand. Additionally, labor costs were shared across three jurisdictions.

b.

As explained in the response to a. above lower marketing costs and timing were the primary drivers for expenditures being under budget with the exception of Power Manager where switch issues are still being rectified. It is anticipated that in 2009, budgeted dollars for marketing will be needed to meet projected goals. Additionally, timing issues will no longer come be an issue in the C&I Schools program so it is anticipated that those dollars will also be expended.

**PERSON RESPONSIBLE:** Michael Goldenberg



**Duke Energy Kentucky, Inc.**  
**Case No. 2008-00473**  
**Kentucky Public Service Commission**  
**First Set of Data Requests**  
**Request Date: February 27, 2009**

**KyPSC-DR-01-004**

**REQUEST:**

Refer to Appendix I of Duke Kentucky's application, page 6 of 6. Footnote A references Appendix J, page 1; however, there is no Appendix J in the application. Provide the referenced appendix or other revision needed to rectify this inconsistency.

**RESPONSE:**

The reference to Appendix J should have been Appendix I. This is corrected in the Revised Appendix I provided as Attachment KyPSC-DR-01-002b.

**PERSON RESPONSIBLE:** Richard G. Stevie



**Duke Energy Kentucky, Inc.**  
**Case No. 2008-00473**  
**Kentucky Public Service Commission**  
**First Set of Data Requests**  
**Request Date: February 27, 2009**

**KyPSC-DR-01-005**

**REQUEST:**

Refer to Appendix I of Duke Kentucky's application, page 6 of 6. The heading for the section at the bottom one-third of the page refers to Appendix K, page 1 of 6; however, there is no Appendix K in the application. Provide the referenced appendix or other revision needed to rectify this inconsistency.

**RESPONSE:**

The reference to Appendix K should have been to Appendix I. This is corrected in the Revised Appendix I provided as Attachment KyPSC-DR-01-002b.

**PERSON RESPONSIBLE:** Richard G. Stevie