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Kristen Cocanougher
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VIA OVERNIGHT DELIVERY

February 17, 2011

RECEIVED

FEB 18 2011

**PUBLIC SERVICE
COMMISSION**

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

Re: Case No. 2010-00445

Dear Mr. Derouen:

Enclosed please find an original and twelve copies of the *Responses of Duke Energy Kentucky, Inc. to Commission Staff's Second Set of Data Requests* in the above captioned case.

Please date-stamp the two copies of the letter and the Data Requests and return to me in the enclosed envelope.

Sincerely,

Kristen Cocanougher

cc: Dennis Howard II

VERIFICATION

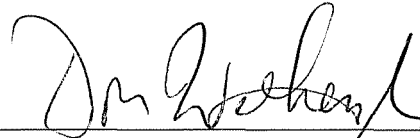
RECEIVED

FEB 18 2011

**PUBLIC SERVICE
COMMISSION**

State of Ohio)
)
County of Hamilton)

The undersigned, William Don Wathen Jr., being duly sworn, deposes and says that I am employed by the Duke Energy Corporation affiliated companies as General Manager Duke Energy & Vice President Rates-Ohio & Kentucky; that on behalf of Duke Energy Kentucky, Inc., I have supervised the preparation of the responses to the foregoing 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 inquiry.



William Don Wathen Jr., Affiant

Subscribed and sworn to before me by William Don Wathen Jr. on this 17th day of February 2011.



NOTARY PUBLIC

My Commission Expires:

**AMY BETH SPILLER, Attorney at Law
Notary Public, State of Ohio
My Commission Has No Expiration Date
Section 147.03**

VERIFICATION

STATE OF NORTH CAROLINA)
) SS:
COUNTY OF MECKLENBURG)

The undersigned, Delta Sonderman, being duly sworn, deposes and says that she is employed by the Duke Energy Corporation affiliated companies as Marketing Specialist for Duke Energy Business Services, LLC; that on behalf of Duke Energy Kentucky, Inc., she 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 her knowledge, information and belief after reasonable inquiry.

Delta Sonderman
Delta Sonderman

Subscribed and sworn to before me by Delta Sonderman on this 20th day of January, 2011.

Lisa S. Moore
NOTARY PUBLIC for Gaston County, NC

My Commission Expires: 04-13-2014



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Duke Energy Kentucky
Case No. 2010-00445
Staff Second Set Data Requests
Date Received: February 4, 2011

STAFF-DR-02-001

REQUEST:

Refer to the table in the response to Item 5.a. of Commission Staff's First Information Request ("Staff's First Request"), which includes Participation, Administration, Implementation, Incentives, and Other Utility Costs.

- a. Explain whether these cost are solely outside contractor costs or if they also include in-house costs incurred by Duke Kentucky.
- b. If some of the costs are in-house costs, explain how Duke Kentucky insures that these costs are excluded from recovery through its base rates.

RESPONSE:

- a. These costs include expenses paid to outside contractors who help to implement the program which may include a program management company, third party call center, design firms for acquisition materials and trade ally training as well as customer incentives. In addition, there are funds allocated to internal costs for in-house printing costs of program materials and employee travel associated with the program.
- b. In its most recent electric base rate case, Case No. 2006-00172, Duke Energy Kentucky included an adjustment to eliminate all costs and all revenue related to DSM because such costs and revenue were addressed in a separate tracker (See Schedule D-2.21 in Company's Application in Case No. 2006-00172). Consequently, there are no costs related to demand-side management or energy efficiency in Duke Energy Kentucky's current base rates. This is how all of the energy efficiency program costs are treated for cost recovery in Duke Energy Kentucky.

PERSON RESPONSIBLE: (a) Delta Sonderman
(b) William Don Wathen Jr.

Duke Energy Kentucky
Case No. 2010-00445
Staff Second Set Data Requests
Date Received: February 4, 2011

STAFF-DR-02-002

REQUEST:

Refer to the attachment to the response to Item 5.b. of Staff's First Request in which Lost Revenue Rates ("LR Rates") are listed for Years 1, 2 and 3. In year 1, the LR Rate is \$0.051619 (Rate RS \$0.085379 less Rider FAC \$0.033760). In year 2, the LR Rate is \$0.052828, an increase of 2.34 percent from the Year 1 rate. And in Year 3, the LR Rate is \$0.054066, an increase of 2.34 percent from the Year 2 rate.

- a. If the LR Rate is the applicable marginal block energy rate net of fuel costs and other variable costs, then there are no other known variable costs? Explain.
- b. Explain why the LR Rate increases from Year 1 to Year 2 and from Year 2 to Year 3.

RESPONSE:

- a. There are variable operating and maintenance (O&M) costs. The lost revenues for this program were estimated using the DSMore model. For the purpose of calculating cost effectiveness, variable O&M was not subtracted from the Rate RS; however, all Variable O&M is subtracted out in the reconciliation process based on actual load impacts and the actual electric rates applicable at the time.
- b. These calculations assumed that the electric rate will increase at the rate of inflation of 2.34%, since the cost-effectiveness analysis is examining the benefits and costs over time. If one component of the test were held constant, i.e., the electric rate, then the RIM test would not be correct because the other components of the RIM test are allowed to increase at their own respective escalation factors.

PERSON RESPONSIBLE: Thomas J. Wiles

Duke Energy Kentucky
Case No. 2010-00445
Staff Second Set Data Requests
Date Received: February 4, 2011

STAFF-DR-02-003

REQUEST:

Refer to footnote (A) on page 5 of 5 of the attachment to the response to Item 5.b. of Staff's First Request. The footnote indicates that, in 2010, a factor of 1.002733 is used to include interest on over- or under-recovery for the average three-month commercial paper rate. If the purpose of Rider DSMR is the recovery of actual program expenditures almost in real-time along with shared savings, which are calculated based on actual program expenditures, and the LR Rate remains constant until there is a change in base rates, explain the purpose of this factor in adjusting the prior period over- or under-recovery.

RESPONSE:

As was explained in the Company's application filed in Case No. 95-312, that first requested approval of the Company's DSM program, the purpose of the "Balancing Mechanism" was to "reconcile differences between amounts of revenue actually collected through the mechanism and the amount of revenues which it was estimated would be collected..." As was further agreed upon by the Joint Applicants, including the Attorney General, (and as approved by the Commission in its December 1, 1995 Order), "[A]ny over- or under recover, with interest applied at the rate equal to the average "3-Month Commercial Paper Rate" for the immediately preceding 12 month period, will be divided by KWH or MCF sales, as specified in the applicable tariffs, for a subsequent twelve-month period to determine the DSM balance adjustment to the DSM Cost Recovery mechanism."

PERSON RESPONSIBLE: Thomas J. Wiles

**Duke Energy Kentucky
Case No. 2010-00445
Staff Second Set Data Requests
Date Received: February 4, 2011**

STAFF-DR-02-004

REQUEST:

Refer to the footnotes on page 5 of 5 of the attachment to the response to Item 5.b. of Staff's First Request. Confirm whether the footnotes should reference Appendix B rather than Appendix J, in footnote (A), and Appendix I in footnotes (B) and (C).

RESPONSE:

The footnotes on page 5 of 5 of the attachment to the response to Item 5.b. of Staff's First Request are in error and should all reference Appendix B.

PERSON RESPONSIBLE: Thomas J. Wiles

Duke Energy Kentucky
Case No. 2010-00445
Staff Second Set Data Requests
Date Received: February 4, 2011

STAFF-DR-02-005

REQUEST:

Refer to the attachments to the response to Item 7 of staff's First Request.

- a. Page 1 to 4 of 11 for the various programs were not labeled. Provide a revised version of the attachment with data on the pages clearly identified on a program-by-program basis.
- b. It appears that the first calculation at the top of page 4 of 11 pertains to the High Efficiency Program. It is unclear what the remainder of the data on pages 4 to 11 of 11, after that first calculation, is meant to represent. Provide a thorough description of the data on these pages and explain how it is used by Duke Kentucky.
- c. Provide this attachment in an electronic Excel format with all formulas intact and unprotected.

RESPONSE:

- a. See STAFF-DR-02-005 attachment being provided on the enclosed CD. Labels have been added.
- b. The data in this section of the spreadsheet calculates the monthly lost margins, and shared savings, pertaining to the customers who installed measures in the High Efficiency Program – Other category. See STAFF-DR-02-005 attachment, being provided on the enclosed CD, which has been updated for clarity. The section titled “High Efficiency Program – Other (measures not included in custom for schools)” calculates lost margins and shared savings for the nonresidential measures that are not lighting, motors, or HVAC, and the “High Efficiency Program – Other (Custom for Schools)” sections that follow calculate lost margins and shared savings for the customers who participated in the Custom for Schools portion of the High Efficiency Program. The sum of these calculations is presented in the “High Efficiency Program – Other (Total)” section of the

spreadsheet, found between the sections for “High Efficiency Program – Motors” and “PowerShare®”.

- c. See STAFF-DR-02-005 attachment being provided on the enclosed CD.

PERSON RESPONSIBLE: Thomas J. Wiles

Duke Energy Kentucky
Case No. 2010-00445
Staff Second Set Data Requests
Date Received: February 4, 2011

STAFF-DR-02-006

REQUEST:

The response to Item 8.c. of Staff's First Request indicates that projected program costs of \$903,772 are from a previous filing, Case No. 2006-00426¹ (Revised Appendix D, Page 2 of 5). Also, the response to Item 8.d. indicates that projected lost revenues of \$657,466 were developed in Case No. 2007-00369² (Appendix J, Page 2 of 6).

- a. Explain whether Duke Kentucky believes that it is preferable to (1) use projected program costs and lost revenues from prior filings or (2) use recent actual program expenditures and actual participation levels, together with future projected activity.
- b. Explain whether Duke Kentucky's (Over)/Under-Recovery amount would be expected to be smaller under method (1) or (2) described in part a. of this request.

RESPONSE:

- a. Duke Energy Kentucky believes that it is preferable to use projected program costs and lost revenues. Duke Energy Kentucky had continued to use information from the past filing to remain consistent with the filing. Duke Energy Kentucky can move to projected values going forward.
- b. It is not possible to say which method would be expected to have smaller (Over)/Under-Recovery amounts because the answer depends on customer participation in a particular program. Duke Energy Kentucky has experienced situations in the past with this program where participation has been significantly higher or lower than projections.

¹ Case No. 2006-00426. The Annual Cost Recovery Filing for Demand Side Management by The Union Light, Heat and Power Company D/B/A Duke Energy Kentucky (KyPsc May 15, 2007).

² Case No. 2007-00369. The Annual Cost Recovery Filing for Demand Side Management by Duke Energy Kentucky, Inc. (Ky. PSC May 14, 2008).

PERSON RESPONSIBLE: Thomas J. Wiles

Duke Energy Kentucky
Case No. 2010-00445
Staff Second Set Data Requests
Date Received: February 4, 2011

STAFF-DR-02-007

REQUEST:

The response to Item 8.d. of Staff's First Request shows the individual costs for the various programs of the Commercial & Industrial High Efficiency Program. The sum of these individual amounts is \$710,419. Explain whether the Program Expenditures from 07/2009 to 06/2010 should be \$719,739, the total shown on Appendix B Reconciliation – Revised, Page 1 of 5, or \$710,419, the sum of the amounts included in the response. If the appropriate sum is \$710,419, provide all revised schedules as in Response to Staff's First Request, 5b.

RESPONSE:

Please see Attachment Staff DR-02-007, Appendix B Reconciliation 2010 Second Revised, for a corrected Appendix B Reconciliation.

The Program Expenditures from July 2009 to June 2010 should match the total shown on Attachment STAFF-DR-02-007, Appendix B Reconciliation 2010 – Second Revised, Page 1 of 5. As explained in STAFF-DR-01-008, the total costs for these programs used in the cost-effectiveness analyses will not match the total on Attachment STAFF-DR-01-005, Appendix B Reconciliation 2010 Revised, due to the timing of the payment of expenditures relative to the timing of actual customer participation.

During the process of responding to this Staff-DR-02-007, Duke Energy Kentucky determined that the amount \$719,739 reported in Appendix B Reconciliation - Revised included misassigned costs totaling \$3,436 that were mistakenly assigned to the Commercial & Industrial High Efficiency Program. The costs should have been assigned to the residential program, Energy Star Products. The total included in Appendix B Reconciliation - Revised, should have been \$716,303.

To avoid further changes to this filing required to reassign this amount to the Residential Program, Duke Energy Kentucky will absorb the differing amount of \$3,436 and use \$716,303 as the total Program Expenditures for the Commercial & Industrial High Efficiency Program and will make no changes to the Residential Program.

PERSON RESPONSIBLE: Thomas J. Wiles

Appendix B
 Kentucky DSM Rider

Comparison of Revenue Requirement to Rider Recovery

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)		(11)		(12)		(13)		(14)		
	Residential Programs	Projected Program Costs 7/2009 to 6/2010 (A)	Projected Lost Revenues 7/2009 to 6/2010 (A)	Projected Shared Savings 7/2009 to 6/2010 (A)	Program Expenditure 7/09 through 6/10 (B)	Gas	Electric	Lost Revenues 7/09 through 6/10 (B)	Shared Savings 7/09 through 6/10 (B)	Gas (D)	Electric (E)	Rider Collection (F) Gas	Electric	(Over)/Under Collection (G)	Gas	Electric	Rider Collection (F) Electric	(Over)/Under Collection (G)	Gas	Electric	2009 Reconciliation Gas	Electric	Rider Collection (F) Gas	Electric	(Over)/Under Collection (G)	Gas	Electric		
Residential Programs																													
Gas Conservation & Energy Education	\$ 499,800	\$ 16,525	\$ (3,499)	\$ 399,007	\$ 244,685	\$ 14,322	\$ 18,903	\$ 15,560	\$ 14,322	\$ 18,903	\$ 15,560	\$ 14,322	\$ 18,903	\$ 15,560	\$ 14,322	\$ 18,903	\$ 15,560	\$ 14,322	\$ 18,903	\$ 15,560	\$ 14,322	\$ 18,903	\$ 15,560	\$ 14,322	\$ 18,903	\$ 15,560	\$ 14,322	\$ 18,903	\$ 15,560
Refrigerator Replacement	\$ 100,000	\$ 6,145	\$ 300	\$ 83,481	\$ 83,481	\$ 83,481	\$ 11,273	\$ (417)	\$ 83,481	\$ 11,273	\$ (417)	\$ 83,481	\$ 11,273	\$ (417)	\$ 83,481	\$ 11,273	\$ (417)	\$ 83,481	\$ 11,273	\$ (417)	\$ 83,481	\$ 11,273	\$ (417)	\$ 83,481	\$ 11,273	\$ (417)	\$ 83,481	\$ 11,273	
Residential Home Energy House Call	\$ 150,000	\$ 49,810	\$ 35,700	\$ 191,893	\$ 120,700	\$ 71,193	\$ 30,643	\$ (384)	\$ 191,893	\$ 120,700	\$ 71,193	\$ 30,643	\$ (384)	\$ 191,893	\$ 120,700	\$ 71,193	\$ 30,643	\$ (384)	\$ 191,893	\$ 120,700	\$ 71,193	\$ 30,643	\$ (384)	\$ 191,893	\$ 120,700	\$ 71,193	\$ 30,643	\$ (384)	
Gas Comprehensive Energy Education	\$ 81,500	\$ -	\$ -	\$ 77,570	\$ 48,791	\$ 80,426	\$ -	\$ -	\$ 77,570	\$ 48,791	\$ 80,426	\$ -	\$ -	\$ 77,570	\$ 48,791	\$ 80,426	\$ -	\$ -	\$ 77,570	\$ 48,791	\$ 80,426	\$ -	\$ -	\$ 77,570	\$ 48,791	\$ 80,426	\$ -	\$ -	
Payment Plus	\$ 150,000	\$ -	\$ -	\$ 80,426	\$ -	\$ 559,090	\$ -	\$ -	\$ 80,426	\$ -	\$ 559,090	\$ -	\$ -	\$ 80,426	\$ -	\$ 559,090	\$ -	\$ -	\$ 80,426	\$ -	\$ 559,090	\$ -	\$ -	\$ 80,426	\$ -	\$ 559,090	\$ -	\$ -	
Power Manager	\$ 875,000	\$ -	\$ -	\$ 174,000	\$ -	\$ 58,433	\$ 36,754	\$ -	\$ 174,000	\$ -	\$ 58,433	\$ 36,754	\$ -	\$ 174,000	\$ -	\$ 58,433	\$ 36,754	\$ -	\$ 174,000	\$ -	\$ 58,433	\$ 36,754	\$ -	\$ 174,000	\$ -	\$ 58,433	\$ 36,754	\$ -	
Program Development Funds	\$ 140,000	\$ -	\$ -	\$ 63,450	\$ -	\$ 49,283	\$ 29,057	\$ -	\$ 140,000	\$ -	\$ 49,283	\$ 29,057	\$ -	\$ 140,000	\$ -	\$ 49,283	\$ 29,057	\$ -	\$ 140,000	\$ -	\$ 49,283	\$ 29,057	\$ -	\$ 140,000	\$ -	\$ 49,283	\$ 29,057	\$ -	
Energy Star Products	\$ 243,000	\$ 690,225	\$ 2,955	\$ 78,320	\$ 12,715	\$ 7,997	\$ 7,701	\$ 1,920	\$ 243,000	\$ 690,225	\$ 2,955	\$ 78,320	\$ 12,715	\$ 7,997	\$ 7,701	\$ 1,920	\$ 1,920	\$ 243,000	\$ 690,225	\$ 2,955	\$ 78,320	\$ 12,715	\$ 7,997	\$ 7,701	\$ 1,920	\$ 1,920	\$ 243,000	\$ 690,225	
Energy Efficiency Website	\$ 31,110	\$ 26,781	\$ -	\$ 2,955	\$ -	\$ 63,165	\$ 10,867	\$ -	\$ 31,110	\$ 26,781	\$ -	\$ 2,955	\$ -	\$ 31,110	\$ 26,781	\$ -	\$ 2,955	\$ -	\$ 31,110	\$ 26,781	\$ -	\$ 2,955	\$ -	\$ 31,110	\$ 26,781	\$ -	\$ 2,955	\$ -	
Personalized Energy Report Program	\$ 153,000	\$ 121,547	\$ -	\$ 73,134	\$ -	\$ 170,253	\$ 10,867	\$ -	\$ 153,000	\$ 121,547	\$ -	\$ 73,134	\$ -	\$ 153,000	\$ 121,547	\$ -	\$ 73,134	\$ -	\$ 153,000	\$ 121,547	\$ -	\$ 73,134	\$ -	\$ 153,000	\$ 121,547	\$ -	\$ 73,134	\$ -	
Residential SmartMeter	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Home Energy Assistance Pilot Program (I)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Revenues collected except for HEA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 2,423,410	\$ 911,033	\$ 346,040	\$ 1,948,037	\$ 1,948,037	\$ 719,793	\$ 1,229,254	\$ 856,903	\$ 1,948,037	\$ 719,793	\$ 1,229,254	\$ 856,903	\$ 1,948,037	\$ 719,793	\$ 1,229,254	\$ 856,903	\$ 1,948,037	\$ 719,793	\$ 1,229,254	\$ 856,903	\$ 1,948,037	\$ 719,793	\$ 1,229,254	\$ 856,903	\$ 1,948,037	\$ 719,793	\$ 1,229,254	\$ 856,903	

(A) Amounts identified in report filed on November 15, 2009.
 (B) Actual program expenditures, lost revenues, and shared savings for the period July 1, 2009 through June 30, 2010 and lost revenues for this period and from prior period DSM measure installations.
 (C) Recovery allowed in accordance with the Commission's Order in Case No. 2004-00389.
 (D) Revenues collected through the DSM Rider between July 1, 2009 and June 30, 2010.
 (E) Column (4) + Column (5) + Column (6) + Column (7) - Column (8)
 (F) Column (5) + Column (6) + Column (7) - Column (8)
 (G) Column (5) + Column (6) + Column (7) - Column (8)
 (H) Column (5) + Column (6) + Column (7) - Column (8)
 (I) Revenues and expenses for the Home Energy Assistance Pilot Program.
 (J) Actual program expenditures, lost revenues, and shared savings for the period July 1, 2009 through June 30, 2010 and lost revenues for this period and from prior period DSM measure installations.
 (K) Recovery allowed in accordance with the Commission's Order in Case No. 2004-00389.
 (L) Recovery allowed in accordance with the Commission's Order in Case No. 2004-00389.
 (M) Revenues collected through the DSM Rider between July 1, 2009 and June 30, 2010.
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 (Z) Column (5) + Column (6) + Column (7) - Column (8)

Appendix B

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

January, 2011 through December, 2011

	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 5.

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

Year	2011
Projected Annual Electric Sales kWh	
Rates RS	1,419,793,000
Rates DS, DP, DT, GS-FL, EH, & SP	2,237,744,041
Rates DS, DP, DT, GS-FL, EH, SP, & TT	2,453,380,000
Projected Annual Gas Sales CCF	
Rate RS	62,760,920

Appendix B

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

January, 2011 through December, 2011

Rate Schedule	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	\$ (1,043,628)	\$ 3,192,653	\$ 2,149,026	1,419,793,000 kWh	\$ 0.001514 \$/kWh
Distribution Level Rates Part A DS, DP, DT, GS-FL, EH & SP	\$ 233,945	\$ 2,121,069	\$ 2,355,014	2,237,744,041 kWh	\$ 0.001052 \$/kWh
Transmission Level Rates & Distribution Level Rates Part B TT	\$ 298,386	\$ 372,641	\$ 671,027	2,453,380,000 kWh	\$ 0.000274 \$/kWh
Distribution Level Rates Total DS, DP, DT, GS-FL, EH & SP					\$ 0.001326 \$/kWh
<u>Gas Rider DSM Residential Rate RS</u>	\$ (4,209)	\$ 1,040,322	\$ 1,036,113	62,760,920 CCF	\$ 0.016509 \$/CCF
Total Rider Recovery			\$ 6,211,180		
Customer Charge for HEA Program <u>Electric No. 4 Residential Rate RS</u>			Annual Revenues \$ 143,674	Number of Customers 119,728	Monthly Customer Charge \$ 0.10
<u>Gas No. 5 Residential Rate RS</u>			\$ 103,609	86,341	\$ 0.10
Total Customer Charge Revenues			\$ 247,283		
Total Recovery			\$ 6,458,463		

(A) (Over)/Under of Appendix B page 1 multiplied by 1.002733 for 2010 for the average three-month commercial paper rate to include interest on over or under-recovery.
 (B) Appendix B, page 2.
 (C) Appendix B, page 4.