

Grayson Rural Electric Cooperative Corporation

109 Bagby Park • Grayson, KY 41143-1292
Telephone 606-474-5136 • 1-800-562-3532 • Fax 606-474-5862

January 9, 2013

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

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PUBLIC SERVICE
COMMISSION

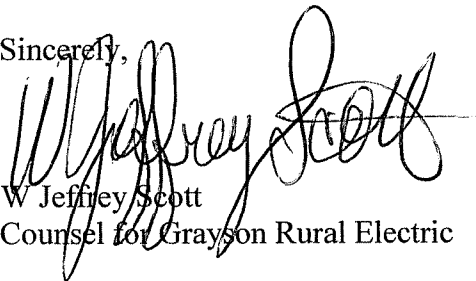
RE: Case No. 2012-00484

Mr. Derouen:

Please find attached the original and six (6) copies of the joint applicants' responses to the Commission's first request for information in the above referenced case.

If there are any questions, please feel free to contact Don M. Combs at (606) 474-5136.

Sincerely,



W. Jeffrey Scott
Counsel for Grayson Rural Electric

COMMONWEALTH OF KENTUCKY


BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

JOINT APPLICATION OF BIG SANDY RURAL)	
ELECTRIC COOPERATIVE CORP.,)	
FLEMING-MASON ENERGY COOPERATIVE,)	CASE NO.
INC., GRAYSON RURAL ELECTRIC)	2012-00484
COOPERATIVE CORP., FOR AN ORDER)	
APPROVING KY ENERGY RETROFIT)	
RIDER PERMANENT TARIFF)	

COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION TO
BIG SANDY RURAL ELECTRIC COOPERATIVE CORPORATION,
FLEMING-MASON ENERGY COOPERATIVE, INC., AND GRAYSON RURAL
ELECTRIC COOPERATIVE CORPORATION



A Touchstone Energy Cooperative 

The undersigned, Joni K. Hazelrigg, as CFO of Fleming-Mason Energy Cooperative, Inc. being first duly sworn, states that the responses to Commission Staff's First Request for Data in PSC Case No. 2012-00484 dated December 14, 2012, herein are true to the best of my knowledge and belief formed after reasonable inquiry.

Dated: January 9, 2013

Fleming-Mason Energy
Cooperative, Inc.

By: Joni K. Hazelrigg
Joni K. Hazelrigg, CFO

Subscribed, sworn to, and acknowledged before me by Joni K. Hazelrigg for Fleming-Mason Energy on behalf of said Corporation this 9th day of January, 2013.

Notary Public:

Jenny L. Wills

My Commission Expires:


11-9-13



The undersigned, Don M. Combs, as Manager of Finance and Accounting of Grayson Rural Electric, being first duly sworn, states that the responses to an order dated December 14, 2012, herein are true to the best of my knowledge and belief formed after reasonable inquiry.

Dated: January 10, 2013

Grayson Rural Electric

By: 

Don M. Combs
Mgr. Finance & Accounting

Subscribed, sworn to, and acknowledged before me by
Don Combs, as Mgr. Finance & Acct. for Grayson RECC on behalf of
said Corporation this 10th day of January, 2013.

Marsha A. Shacker
Notary Public, State-at-large Ky.
My Commission expires 1-9-2015.



**Big Sandy Rural Electric
Cooperative Corporation**

504 11th Street
Paintsville, Kentucky 41240-1422
(606) 789-4095 • Fax (606) 789-5454
Toll Free (888) 789-RECC (7322)

The undersigned, Bruce Aaron Davis, as Manager of Billing/Member Services of Big Sandy Rural Electric Cooperative Corporation, being first duly sworn, states that the responses to an order dated December 16, 2010, herein are true to the best of my knowledge and belief formed after reasonable inquiry.

Dated: 1-9-2013

Big Sandy Rural Electric Cooperative Corporation

By: *Bruce Aaron Davis*

**Bruce Aaron Davis
Manager of Billing/ Member Services**

Subscribed, sworn to, and acknowledged before me by
Bruce Aaron Davis as Manager of Billing for Big Sandy Rural Electric on behalf of
said Corporation this 9th day of January, 2013.

*Judy McClure
Notary Public*



Witness: Big Sandy – Bruce Aaron Davis
Fleming Mason – Joni Hazelrigg
Grayson – Don Combs
MACED – Bill Blair

Case No. 2012-00484
First Data Request –Dec. 14, 2012

1. Refer to footnote 3 on page 3 of the Application and the Data Report for the period of December 1, 2011 through May 31, 2012, contained in the Semi Annual Report filed on June 20, 2012. In the Data Report, Jackson Energy was the most active cooperative with respect to the Kentucky Energy Retrofit Rider (“KER Rider”), but the footnote states than Jackson Energy is not filing for a permanent rider at this time.

a. If known, explain why Jackson Energy is not proposing a permanent rider at this time.

b. If known, explain when and if Jackson Energy expects to propose a permanent KER Rider.

Response:

a. It is not known by the applicants why Jackson Energy is not proposing a permanent rider at this time.

b. Again, this is not known by the applicants.



Witness: Big Sandy – Bruce Aaron Davis

Fleming Mason – Joni Hazelrigg

Grayson – Don Combs

MACED – Bill Blair

Case No. 2012-00484
First Data Request –Dec. 14, 2012

2. In the Application, the Joint Applicants state that they will partner with the Mountain Association for Community Economic Development (“MACED”) to operate the KER Rider program. Provide the total dollar amount, to date, of funds paid by MACED to your particular cooperative, as well as the total amount of funds paid by your particular cooperative to MACED for the retrofit project.

Response:

	<u>Paid by MACED</u>	<u>Paid by COOP to MACED</u>
Fleming Mason	\$151,703.93	\$5,079.91
Grayson	87,994.44	\$4,204.00
Big Sandy	93,099.82	\$4,536.75

Witness: Big Sandy – Bruce Aaron Davis

Fleming Mason – Joni Hazelrigg

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Case No. 2012-00484
First Data Request –Dec. 14, 2012

3. Refer to page 4, Item No. 11 of the Application.

a. The response states that to date, \$538,008 in capital has been deployed through the program. For each of the Joint applicants, provide a breakdown of the manner in which the capital has been deployed at your particular cooperative, including:

(1) The types of costs involved, including costs of actual projects, advertising and promotional costs, and administrative costs;

(2) The associated dollar amounts, for each type of cost shown in the response to Item 3.a.(1) above.

b. The average monthly retrofit project charge is stated as \$38.70. Provide the average payback period associated with the \$38.70 charge.

Response:

a. See Response for Item 2 for Capital Deployed for applicants (Paid by MACED). \$538,000 has been revised currently to \$ 560,302 and includes Jackson's participation (\$227,504.28).

1. Other costs not included in the Projects costs include general administrative and accounting labor costs, UCC filing and software fees..

2. The labor costs have not resulted in addition costs for the Cooperatives, but have been absorbed by reallocating job

Witness: Big Sandy – Bruce Aaron Davis

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Case No. 2012-00484

First Data Request –Dec. 14, 2012

duties. See response to Item #4. The UCC and software fees have been insignificant and have been covered by the Project management fee.

b. 14.5 years



Witness: Big Sandy – Bruce Aaron Davis

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Case No. 2012-00484
First Data Request –Dec. 14, 2012

4. Refer to page 4, Item No. 12 of the Application. Joint Applicants state that some additional accounting costs incurred have been, to date, adequately covered by the existing project management fee calculated as part of the Retrofit Project Charge.

a. Provide the dollar amount of the additional accounting costs incurred by your particular cooperative that have been covered by the existing project management fee.

b. Provide the average amount of the project management fee at your particular cooperative for projects to date.

c. Provide the total amount of funding provided through the Kentucky Home Performance Program to your particular cooperative for reimbursement of the initial training costs associated with attaining Building Performance Institute certification.

d. Explain the reasons for the additional costs. In the explanation, state whether the costs are considered significant, and whether the costs are expected to be covered by the existing fee for the foreseeable future.

Witness: Big Sandy – Bruce Aaron Davis

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Response:

- a. As stated in the response to Item 3 a. (2), the accounting labor costs have been included in existing labor costs and do not represent a net increase in labor costs.
- b. Average Project Management Fees (incl UCC & Software Fees)
Big Sandy - \$ 209.52
Fleming Mason - \$285.11
Grayson - \$191.29
- c. Received from MACED for training & Equipment
Including KY Home performance
Big Sandy - \$ 13,096.90
Fleming Mason \$8,097.00
Grayson - \$10,538.52
- d. These costs are considered insignificant and would be partly offset by the project management fee. See Response to Item 4(a) above.

Witness: Big Sandy – Bruce Aaron Davis

Fleming Mason – Joni Hazelrigg

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Case No. 2012-00484
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5. Refer to page 4, Item No. 13 of the Application. Joint Applicants state that only one of the 98 completed retrofit projects is currently inactive. Joint Applicants further state that repayment has been suspended on that account and that the Retrofit Project Charge will resume when service resumes at that location. Additionally, Joint Applicants state that, in a few cases, some participating locations have significant damage resulting from fire or natural disaster, but electric service has remained current at those locations, resulting in no interruption of the repayment of the Retrofit Project Charge. For each of the Joint Applicants:

a. Provide for your particular cooperative the specific number of participating locations that have significant damage from fire or natural disaster, as defined by the Joint Applicants.

b. Provide for your particular cooperative the total number of completed retrofit project locations that have been sold, foreclosed upon, or for which, owners have had a change of address since the completion of the retrofit projects.

Response:

a. Big Sandy – 1 due to a natural disaster

Grayson – 0

Fleming Mason - 0

b. Grayson – 2 due to foreclosure

Big Sandy – 0

Fleming Mason - 0



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Fleming Mason – Joni Hazelrigg

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Case No. 2012-00484
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6. State whether payments made on projects are returned to the pool of capital set aside for future energy retrofit projects. If returned, state approximately what percentage of the total payments are returned to the pool.

Response:

The capital source for How\$mart to date has been MACED's lending portfolio. When funds are repaid to MACED per the loan agreements between MACED and the co-op, these funds revert to MACED's general pool of capital for lending. MACED indicates no foreseeable problem with continuing to be able to furnish sufficient capital for this work even with significant expansion of the program and additional co-ops participating.



Case No. 2012-00484
First Data Request –Dec. 14, 2012

7. Refer to page 5, Item No. 15 of the Application.

a. Joint Applicants attempt to clarify in Item 15(b) that the investment is tied to the physical location, not an account. Explain the necessity of tying the investment to the physical location as opposed to the account of an individual customer.

b. Refer to page 5, Item No. 16 of the Application. Joint Applicants state that the KER Rider “remains a voluntary tariff available to customers”. Explain how the KER Rider is considered “voluntary,” given the Joint Applicants’ proposal is to tie the investment to the physical location, rather than the individual account holder.

Response:

a. The fundamental concept of this program is to increase the energy efficiency of physical structures that will have a useful life of 15 years or more. The underlying premise being that the occupant of the structure will receive the benefit of the retrofit with lower electric bills for however long they live there. While in most cases, the customer plans to remain at the location, it is not a requirement to qualify for this program. The joint applicants felt that it was important to make the distinction that the investment is tied to the location rather than the occupant or customer.

Witness: Big Sandy – Bruce Aaron Davis

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b. The term “voluntary tariff” simply means that any customer that qualifies and chooses to participate may do so. The joint applicants will not require participation by any customer. If a customer voluntarily participates in the program, it is explained that this investment will remain tied to the electric bill until payment in full of the project cost.

Witness: Big Sandy – Bruce Aaron Davis
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Case No. 2012-00484
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8. Refer to pages 5 and 6, Item No. 16 of the Application.

a. On page 6, Joint Applicants state that the proposed KER Rider requires the development of a Conservation Plan for each retrofit option proposed for a customer. For your particular cooperative, provide an example of Conservation Plans developed during the pilot program.

b. For your particular cooperative, provide an analysis of the projected savings associated with each identified Conservation Plan as compared to the actual savings experienced by the customer on each account.

Response:

a. See Pages 2 - 31 of this Item.

b.	<u>Monthly</u>	<u>Projected Savings</u>	<u>Actual Savings</u>
	BS #1	\$ 67	\$ 48
	BS #2	24	100
	BS #3	28	28
	FM #1	92	174
	FM #2	93	124
	G #1	71	166
	G #2	33	45



Big Sandy RECC
The electric company of the people

Location ID:	Customer Information Removed for Privacy.
Name	
OwnerName	
Phone	
Assessor	
Date	

Example Conservation Plan

How Your Home Uses Energy

model baseline	Elec	Gas	Propane	Wood/Coal
Heating	14,400 kWh	0 kBTU	0 kBTU	0 kBTU
Cooling	2310 kWh	0 kBTU	0 kBTU	
Base	12200 kWh	0 kBTU	0 kBTU	
Total (yr)	28,910 kWh	0 kBTU	0 kBTU	0 kBTU
	28600 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Replace HVAC Heating with New HVAC Heating System.
- Replace HVAC Cooling with New HVAC Cooling System.
- Reduce the house air leakage from 5020 to 3000 cfm50.
- 4. Rim joist insulation listed above will contribute to air sealing.
- 3. Repair and replace paneling missing on A frame ceiling.
- 2. Remove window AC units.
- 1. Air seal basement door.
- Create a new, sealed and insulated attic access from closet in addition.
- Add Rim Joist Insulation.
- Install R-19 insulation in floor.
- Add Insulation in attic to 12" total from existing.
- Install Programmable Thermostat.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
7671 kWh (Elec)	7,361 kWh (Elec)	7,361 kWh	0.11 /kWh	\$810
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$67
before monthly HowSmart Charge

Financing

\$9,815.60 Cost of Improvements (est):
\$1,963.12 Kentucky Home Performance

\$7,852.48 Utility Contribution
\$8,310 Not to Exceed Amount (90% of Savings)

@ 3%
over 15 years

\$57 Monthly Charge

84% of projected savings

Next Steps

1. Sign Purchase Agreement
 2. Select contractor and schedule the job
 3. Energy Specialist returns to inspect completed work
 4. Savings begin and installments charge appears on utility bill.
- If, after operation, any of the upgrades fail, the Utility will reevaluate the work.

Acceptance:

I understand that:

Values on previous page are estimates only and are not a guarantee of savings. Energy savings are a best-effort estimation calculated using a computer model. The model takes into account previous usage and characteristics of the house to determine usage and potential savings. Actual savings will vary depending on behavior, weather events, maintenance of the efficiency improvements, and future utility rates.

The Utility has explained what I can do to reduce my energy consumption including, but no limited to: thermostat and other equipment settings, the impact of lighting changes, and additional appliance or home investments not covered under How\$martKY.

Value of the improvements (cost of work) is an estimate and will be verified with the selected contractor. Final monthly charge will be determined at the time of contractor selection. If final project cost is more than the "not to exceed" amount, then customer may opt out of the installation.

Non-payment of the charge will be treated like non-payment of the utility bill potentially resulting in disconnection of service.

The Kentucky Energy Retrofit Rider (marketed as How\$martKY) is a voluntary utility tariff that amortizes the cost of the efficiency improvement over the course of fifteen years or 75% of the expected life of the improvement (whichever is less) at a fixed interest rate. The expected cumulative cost to the customer over the course of the payback period of the improvements is as follows:

		<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge		\$57	\$61		
Capital Investment		\$7,852	\$8,310		
Project Fee(s)	4.50%	\$353	\$374	Payback Period (years)	15
Capital Fee	0.50%	\$39	\$42	Cost of Capital	3%
Total Interest over life of payback		<u>\$2,043</u>	<u>\$2,247</u>		
Total Cost over life of payback		\$10,249	\$10,931		

Account Holder: _____
 print name
 Date: _____

Owner: _____
 print name
 Date: _____



This is an excerpt from the N_WeatherData_All_Completed_Retorfits Oct 2012 Spreadsheet for the example conservation plan given for Page 5 Item 8 Example 3

CoopCode	LocationID	DataStatus	Pres Rdg Dt	Billing Dt	Days Use	kWh_Usage	StartDate	EndDate	TotalHDD	TotalCDD	HDD200+
bigandyrecc	512002	BR	17-Aug-10	2010-08-25	31	1827	2010-07-18	2010-08-17	1.1	432.8	
bigandyrecc	512002	BR	17-Sep-10	2010-09-25	31	1404	2010-08-18	2010-09-17	26	280.8	
bigandyrecc	512002	BR	17-Oct-10	2010-10-25	30	1095	2010-09-18	2010-10-17	182.4	138.6	
bigandyrecc	512002	BR	14-Nov-10	2010-11-22	28	2123	2010-10-18	2010-11-14	377.3	24	377.3
bigandyrecc	512002	BR	17-Dec-10	2010-12-25	33	4668	2010-11-15	2010-12-17	987.7	2.1	987.7
bigandyrecc	512002	BR	17-Jan-11	2011-01-25	31	4835	2010-12-18	2011-01-17	1119.5	0	1119.5
bigandyrecc	512002	BR	16-Feb-11	2011-02-24	30	4115	2011-01-18	2011-02-16	1015.1	0	1015.1
bigandyrecc	512002	BR	17-Mar-11	2011-03-25	29	2438	2011-02-17	2011-03-17	565.5	0.4	565.5
bigandyrecc	512002	BR	17-Apr-11	2011-04-25	31	2031	2011-03-18	2011-04-17	438.2	38.8	438.2
bigandyrecc	512002	BR	17-May-11	2011-05-25	30	1286	2011-04-18	2011-05-17	204.8	67.1	204.8
bigandyrecc	512002	BR	16-Jun-11	2011-06-24	30	1520	2011-05-18	2011-06-16	44.8	240.6	
bigandyrecc	512002	BR	16-Jul-11	2011-07-24	30	1438	2011-06-17	2011-07-16	4.5	281.1	
bigandyrecc	512002	BR	17-Aug-11	2011-08-25	32	1592	2011-07-17	2011-08-17	4.9	402.7	
bigandyrecc	512002	AR	24-Mar-12	2012-04-01	31	1262	2012-02-23	2012-03-24	383.4	41	383.4
bigandyrecc	512002	AR	22-Apr-12	2012-04-30	29	980	2012-03-25	2012-04-22	301.9	30.9	301.9
bigandyrecc	512002	AR	24-May-12	2012-06-01	32	1072	2012-04-23	2012-05-24	129.1	117.5	
bigandyrecc	512002	AR	21-Jun-12	2012-06-29	28	1048	2012-05-27	2012-06-25	44.6	248.1	
bigandyrecc	512002	AR	24-Jul-12	2012-08-01	33	1291	2012-07-27	2012-08-25	20.6	275.3	
bigandyrecc	512002	AR	24-Aug-12	2012-09-01	31	1112	2012-08-27	2012-09-25	82.4	184.9	
bigandyrecc	512002	AR	24-Sep-12	2012-10-02	31	1015	2012-09-27	2012-10-25	9.2	7.1	

The conservation plan estimated a monthly savings of 67 dollars.

Using weather normalization to estimate the actual savings accounting for weather.

CDD200+ kWhHDD2 kWhCDD2 ProjectedB	Nrm Sav	%Nrm Sav	%DirectSa	Averages
432.8	1827			0.52805
280.8	1404			100.4367
2123				
4668				
4835				
4115				
2438				
2031				
1286				
240.6	1520			
281.1	1438			
402.7	1592			
1262	1943.229	681.2292	35%	48%
980	1625.435	645.4346	40%	52%
		1072		
248.1	1048	1447.74	399.7401	28%
275.3	1291	1468.58	177.5797	12%
184.9	1112	1399.318	287.3185	21%
		1015		28%
438 Weather Normalized Monthly kwh Average Saved				
27% Weather Normalized Percentage of Savings				
\$ 48.21 Weather Normalized savings based on \$0.11				

BS #2



Big Sandy RECC
The electric company of the people

Location ID:	Customer Information Removed for Privacy.
Name	
OwnerName	
Phone	
Assessor	
Date	

Example Conservation Plan

How Your Home Uses Energy

model baseline		Elec	Gas	Propane	Wood/Coal
	Heating	5,680 kWh	0 kBTU	0 kBTU	0 kBTU
	Cooling	2130 kWh	0 kBTU	0 kBTU	
	Base	18400 kWh	0 kBTU	0 kBTU	
	Total (yr)	26,210 kWh	0 kBTU	0 kBTU	0 kBTU
		26400 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Add Rim Joist Insulation.
- Install R-19 insulation in floor.
- Reduce the house air leakage from 3278 to 2240 cfm50.
7. Spray foam on band board (listed elsewhere) will contribute to air sealing.
6. Air seal large penetrations where accessible in attic and crawl with foam board and / or spray foam as needed.
5. Create and install foam board box with weatherstrip over attic stairs to air seal opening.
4. Seal foam board in attic on skylight shaft. Tape corners and foam top and bottom edges.
3. Cap open kitchen soffits on attic side with foam board, sealed at edges.
2. Replace laundry door to garage.
1. Air seal laundry door to exterior.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
2374 kWh (Elec)	2,564 kWh (Elec)	2,564 kWh	0.11 /kWh	\$282
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$24
before monthly How\$mart Charge

Financing

\$3,415.00 **Cost of Improvements (est):**

\$683.00 **Kentucky Home Performance**

\$2,732.00 **Utility Contribution**

\$2,895 Not to Exceed Amount (90% of Savings)

@ 3%
over 15 years

\$20 Monthly Charge

84% of projected savings

This is an excerpt from the N_WeatherData_All_Completed_Retorfits Oct 2012 Spreadsheet for the example conservation plan given for Page 5 Item 8 Example 2

CoopCode	LocationID	DataStatus	Pres Rdg Dt	Billing Dt	Days Use	kWh Usage	StartDate	EndDate	TotalHDD	TotalCDD	HDD200+
bigandyrecc	479038	BR	17-Sep-10	2010-09-25	31	1822	2010-08-18	2010-09-17	26	280.8	
bigandyrecc	479038	BR	17-Oct-10	2010-10-25	30	1030	2010-09-18	2010-10-17	182.4	138.6	
bigandyrecc	479038	BR	14-Nov-10	2010-11-22	28	1313	2010-10-18	2010-11-14	377.3	24	377.3
bigandyrecc	479038	BR	17-Dec-10	2010-12-25	33	3279	2010-11-15	2010-12-17	987.7	2.1	987.7
bigandyrecc	479038	BR	17-Jan-11	2011-01-25	31	3141	2010-12-18	2011-01-17	1119.5	0	1119.5
bigandyrecc	479038	BR	16-Feb-11	2011-02-24	30	2787	2011-01-18	2011-02-16	1015.1	0	1015.1
bigandyrecc	479038	BR	17-Mar-11	2011-03-25	29	1802	2011-02-17	2011-03-17	565.5	0.4	565.5
bigandyrecc	479038	BR	17-Apr-11	2011-04-25	31	1713	2011-03-18	2011-04-17	438.2	38.8	438.2
bigandyrecc	479038	BR	17-May-11	2011-05-25	30	1707	2011-04-18	2011-05-17	204.8	67.1	204.8
bigandyrecc	479038	BR	16-Jun-11	2011-06-24	30	1983	2011-05-18	2011-06-16	44.8	240.6	
bigandyrecc	479038	BR	16-Jul-11	2011-07-24	30	3043	2011-06-17	2011-07-16	4.5	281.1	
bigandyrecc	479038	BR	17-Aug-11	2011-08-25	32	2700	2011-07-17	2011-08-17	4.9	402.7	
bigandyrecc	479038	BR	31-Aug-11	2011-09-08	14	997	2011-08-18	2011-08-31	5.3	129.3	
bigandyrecc	479038	BR	17-Sep-11	2011-09-25	17	1060	2011-09-01	2011-09-17	59.5	95.3	
bigandyrecc	479038	AR	24-Jan-12	2012-02-01	31	3419	2011-12-25	2012-01-24	858.3	0	858.3
bigandyrecc	479038	AR	22-Feb-12	2012-03-01	29	2581	2012-01-25	2012-02-22	759.9	0	759.9
bigandyrecc	479038	AR	24-Mar-12	2012-04-01	31	248	2012-02-23	2012-03-24	383.4	41	383.4
bigandyrecc	479038	AR	22-Apr-12	2012-04-30	29	169	2012-03-25	2012-04-22	301.9	30.9	301.9
bigandyrecc	479038	AR	24-May-12	2012-06-01	32	552	2012-04-23	2012-05-24	129.1	117.5	129.1
bigandyrecc	479038	AR	21-Jun-12	2012-06-29	28	73	2012-05-27	2012-06-25	44.6	248.1	
bigandyrecc	479038	AR	24-Jul-12	2012-08-01	33	961	2012-07-27	2012-08-25	20.6	275.3	
bigandyrecc	479038	AR	24-Aug-12	2012-09-01	31	729	2012-08-27	2012-09-25	82.4	184.9	
bigandyrecc	479038	AR	41176	2012-10-02	31	105	2012-09-27	2012-10-25	9.2	7.1	

The conservation plan estimated a monthly savings of 24 dollars.

Using weather normalization to estimate the actual savings accounting for weather.

CDD200+ kWhHDD2|kWhCDD2|ProjectedB NrmISav |%NrmISav| %DirectSa|Averages

280.8 1822

1313
3279
3141
2787
1802
1713
1707

240.6 1983
281.1 3043
402.7 2700

3419 2660.832 -758.168 -28% -9%
2581 2476.288 -104.712 -4% 7%
248 1770.181 1522.181 86% 86%
169 1617.332 1448.332 90% 90%
552 1293.254 741.254 57% 68%
73 2410.223 2337.223 97% 96%
275.3 961 2485.032 1524.032 61% 68%
184.9 729 2236.404 1507.404 67% 73%

105 0 0.494066 0.494066 913 Weather Normalized Monthly kwh Average Saved
53% Weather Normalized Percentage of Savings
\$100.44 Weather Normalized savings based on \$0.11

BS #3



Location ID:	Customer Information Removed for Privacy.
Name	
OwnerName	
Phone	
Assessor	
Date	

Example
Conservation
Plan

How Your Home Uses Energy

<i>model baseline</i>	Elec	Gas	Propane	Wood/Coal
Heating	4,660 kWh	0 kBTU	0 kBTU	0 kBTU
Cooling	433 kWh	0 kBTU	0 kBTU	
Base	16300 kWh	0 kBTU	0 kBTU	
Total (yr)	21,393 kWh	0 kBTU	0 kBTU	0 kBTU
	21900 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- 1. Install a foam board air barrier over the attic side of the dropped kitchen soffits. Edges and seams must be sealed
 - 2. Replace batt insulation over the soffit areas after installing air barrier.
 - 3. Air seal all large penetrations in the crawl space subfloor, with special attention to plumbing under tub(s).
- Seal Duct Work to 10% of fan capacity.
- Add Insulation in attic to 12" total from existing.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
2556 kWh (Elec)	3,063 kWh (Elec)	3,063 kWh	0.11 /kWh	\$337
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$28
before monthly HowSmart Charge

Financing

\$1,820.00 Cost of Improvements (est):

\$364.00 Kentucky Home Performance

\$1,456.00 Utility Contribution

\$1,572 Not to Exceed Amount (90% of Savings)

@ 3%

over 6 years

\$23 Monthly Charge

83% of projected savings

Next Steps

1. Sign Purchase Agreement
2. Select contractor and schedule the job
3. Energy Specialist returns to inspect completed work
4. Savings begin and installments charge appears on utility bill.

If, after operation, any of the upgrades fail, the Utility will reevaluate the work.

Acceptance:

I understand that:

Values on previous page are estimates only and are not a guarantee of savings. Energy savings are a best-effort estimation calculated using a computer model. The model takes into account previous usage and characteristics of the house to determine usage and potential savings. Actual savings will vary depending on behavior, weather events, maintenance of the efficiency improvements, and future utility rates.

The Utility has explained what I can do to reduce my energy consumption including, but no limited to: thermostat and other equipment settings, the impact of lighting changes, and additional appliance or home investments not covered under How\$martKY.

Value of the improvements (cost of work) is an estimate and will be verified with the selected contractor. Final monthly charge will be determined at the time of contractor selection. If final project cost is more than the "not to exceed" amount, then customer may opt out of the installation.

Non-payment of the charge will be treated like non-payment of the utility bill potentially resulting in disconnection of service.

The Kentucky Energy Retrofit Rider (marketed as How\$martKY) is a voluntary utility tariff that amortizes the cost of the efficiency improvement over the course of fifteen years or 75% of the expected life of the improvement (whichever is less) at a fixed interest rate. The expected cumulative cost to the customer over the course of the payback period of the improvements is as follows:

	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$23	\$25		
Capital Investment	\$1,456	\$1,572		
Project Fee(s)	4.50% \$66	\$71	Payback Period (years)	6
Capital Fee	0.50% \$7	\$8	Cost of Capital	3%
Total Interest over life of payback	<u>\$151</u>	<u>\$177</u>		
Total Cost over life of payback	\$1,672	\$1,819		

Account Holder: _____
print name

Date: _____

Owner: _____
print name

Date: _____



Energy Efficiency for Everyone

This is an excerpt from the N_WeatherData_All_Completed_Retorfits Oct 2012 Spreadsheet for the example conservation plan given for Page 5 Item 8

CoopCode	LocationID	DataStatus	Pres Rdg Dt	Billing Dt	Days Use	kWh_Usag	StartDate	EndDate	TotalHDD	TotalCDD	HDD200+
bigandyrecc	545050	BR	17-Aug-10	8/25/2010	31	2418	7/18/2010	8/17/2010	1.1	432.8	
bigandyrecc	545050	BR	17-Sep-10	9/25/2010	31	2043	8/18/2010	9/17/2010	26	280.8	
bigandyrecc	545050	BR	17-Oct-10	10/25/2010	30	1663	9/18/2010	10/17/2010	182.4	138.6	
bigandyrecc	545050	BR	14-Nov-10	11/22/2010	28	1808	10/18/2010	11/14/2010	377.3	24	377.3
bigandyrecc	545050	BR	17-Dec-10	12/25/2010	33	2976	11/15/2010	12/17/2010	987.7	2.1	987.7
bigandyrecc	545050	BR	17-Jan-11	1/25/2011	31	2856	12/18/2010	1/17/2011	1119.5	0	1119.5
bigandyrecc	545050	BR	16-Feb-11	2/24/2011	30	2228	1/18/2011	2/16/2011	1015.1	0	1015.1
bigandyrecc	545050	BR	17-Mar-11	3/25/2011	29	1579	2/17/2011	3/17/2011	565.5	0.4	565.5
bigandyrecc	545050	BR	17-Apr-11	4/25/2011	31	1454	3/18/2011	4/17/2011	438.2	38.8	438.2
bigandyrecc	545050	BR	17-May-11	5/25/2011	30	1066	4/18/2011	5/17/2011	204.8	67.1	204.8
bigandyrecc	545050	BR	16-Jun-11	6/24/2011	30	1311	5/18/2011	6/16/2011	44.8	240.6	
bigandyrecc	545050	BR	16-Jul-11	7/24/2011	30	1373	6/17/2011	7/16/2011	4.5	281.1	
bigandyrecc	545050	BR	17-Aug-11	8/25/2011	32	1507	7/17/2011	8/17/2011	4.9	402.7	
bigandyrecc	545050	AR	24-Dec-11	1/1/2012	31	1742	11/24/2011	12/24/2011	705.6	0	705.6
bigandyrecc	545050	AR	24-Jan-12	2/1/2012	31	1902	12/25/2011	1/24/2012	858.3	0	858.3
bigandyrecc	545050	AR	22-Feb-12	3/1/2012	29	1655	1/25/2012	2/22/2012	759.9	0	759.9
bigandyrecc	545050	AR	24-Mar-12	4/1/2012	31	1164	2/23/2012	3/24/2012	383.4	41	383.4
bigandyrecc	545050	AR	22-Apr-12	4/30/2012	29	1028	3/25/2012	4/22/2012	301.9	30.9	301.9
bigandyrecc	545050	AR	24-May-12	6/1/2012	32	1111	4/23/2012	5/24/2012	129.1	117.5	129.1
bigandyrecc	545050	AR	21-Jun-12	6/29/2012	28	1180	5/27/2012	6/25/2012	44.6	248.1	
bigandyrecc	545050	AR	24-Jul-12	8/1/2012	33	1656	7/27/2012	8/25/2012	20.6	275.3	
bigandyrecc	545050	AR	24-Aug-12	9/1/2012	31	1214	8/27/2012	9/25/2012	82.4	184.9	
bigandyrecc	545050	AR	24-Sep-12	10/2/2012	31	1027	9/27/2012	10/25/2012	9.2	7.1	

The conservation plan estimated a monthly savings of 28 dollars.

Using weather normalization to estimate the actual savings accounting for weather.

CDD200+ kWhHDD2(kWhCDD2)ProjectedB NrmISav |%NrmISav |%DirectSav|Averages

432.8	2418								
280.8	2043								
		1808							
		2976							
		2856							
		2228							
		1579							
		1454							
		1066							
240.6		1311		2055	313	15%	41%		
281.1		1373		2333	431	18%	33%		
402.7		1507		2154	499	23%	26%		
				1469	305	21%	26%		
				1321	293	22%	29%		
				1007	-104	-10%	-4%		
				1545	365	24%	10%		
248.1		1180		1552	-104	-7%	-21%		
275.3		1656		1530	316	21%	19%		
184.9		1214		1027	0	50%	50%		

257 Weather Normalized Monthly kwh Average Saved
 14% Weather Normalized Percentage of Savings
 \$28.27 Weather Normalized savings based on \$0.11



Location ID:	Customer Information Removed for Privacy.
Name	
OwnerName	
Phone	
Assessor	
Date	

Example
Conservation
Plan

How Your Home Uses Energy

<i>model baseline</i>	Elec	Gas	Propane	Wood/Coal
Heating	7,730 kWh	0 kBTU	0 kBTU	0 kBTU
Cooling	4300 kWh	0 kBTU	0 kBTU	
Base	14200 kWh	0 kBTU	0 kBTU	
Total (yr)	26,230 kWh	0 kBTU	0 kBTU	0 kBTU
	26400 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

Low-flow shower heads.
Insulate water lines.
Install ventilation fans.
Install dryer vent.
Install curtain drain.
Install CO monitor.
Improve electrical safety.
Crawl space vapor barrier.
Replace existing hi consumption blubs with CFL's.
Install R-19 insulation in floor.
Add Insulation in attic to 12" total from existing.
Replace HVAC Heating with New HVAC Heating System.
Seal Duct Work to 0.
Replace HVAC Cooling with New HVAC Cooling System.
Reduce house air leakage to 1000 cfm50.

<u>Savings from Baseline:</u>	<u>Savings from Measures:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
9893 kWh (Elec)	10,063 kWh (Elec)	10,063 kWh	0.11 /kWh	\$1,107
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$92
before monthly HowSmart Charge

Financing

\$11,870.13 Cost of Improvements (est):

\$2,000.00 Kentucky Home Performance
\$995.46 Rebates - Utility

\$8,874.67 Utility Contribution
\$11,361 Not to Exceed Amount (90% of Savings)

@ 3%
over 15 years

\$64 Monthly Charge
70% of projected savings

Next Steps

1. Sign Purchase Agreement
 2. Select contractor and schedule the job
 3. Energy Specialist returns to inspect completed work
 4. Savings begin and installments charge appears on utility bill.
- If, after operation, any of the upgrades fail, the Utility will reevaluate the work.

Acceptance:

I understand that:

Values on previous page are estimates only and are not a guarantee of savings. Energy savings are a best-effort estimation calculated using a computer model. The model takes into account previous usage and characteristics of the house to determine usage and potential savings. Actual savings will vary depending on behavior, weather events, maintenance of the efficiency improvements, and future utility rates.

The Utility has explained what I can do to reduce my energy consumption including, but no limited to: thermostat and other equipment settings, the impact of lighting changes, and additional appliance or home investments not covered under How\$martKY.

Value of the improvements (cost of work) is an estimate and will be verified with the selected contractor. Final monthly charge will be determined at the time of contractor selection. If final project cost is more than the "not to exceed" amount, then customer may opt out of the installation.

Non-payment of the charge will be treated like non-payment of the utility bill potentially resulting in disconnection of service.

The Kentucky Energy Retrofit Rider (marketed as How\$martKY) is a voluntary utility tariff that amortizes the cost of the efficiency improvement over the course of fifteen years or 75% of the expected life of the improvement (whichever is less) at a fixed interest rate. The expected cumulative cost to the customer over the course of the payback period of the improvements is as follows:

	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$64	\$83		
Capital Investment	\$8,875	\$11,361		
Project Fee(s)	4.50%	\$399	\$511	Payback Period (years) 15
Capital Fee	0.50%	\$44	\$57	Cost of Capital 3%
Total Interest over life of payback	<u>\$2,309</u>	<u>\$3,072</u>		
Total Cost over life of payback	\$11,583	\$14,944		

Account Holder: _____
print name

Date: _____

Owner: _____
print name

Date: _____



CDD200+ kWhHDD2|kWhCDD2|ProjectedB NrmISav |%NrmISav |%DirectSa|Averages

280.1	2669							
377	2756							
292.4	2279							
		1222						
		1535						
		2657						
		1931						
		1268						
		1033						
423.5	951	2850	1899	67%	64%			
275.3	781	2459	1678	68%	72%			
184.9	1043	2221	1178	53%	54%			

1585 Weather Normalized Monthly kwh Average Saved
 63% Weather Normalized Percentage of Savings
 \$174.37 Weather Normalized savings based on \$0.11

This is an excerpt from the N_WeatherData_All_Completed_Retrofit_Oct 2012 Spreadsheet for the example conservation plan given for Page 5 Item 8
 Fleming-Mason Energy Example Conservation Plan 2

CoopCode	LocationID	DataStatus	Pres Rdg Dt	Billing Dt	Days Use	kWh_Usage	StartDate	EndDate	TotalHDD	TotalCDD	HDD200+
flemmasrecc	210649011	BR	2-Jun-11	6/10/2011	31	2387	5/3/2011	6/2/2011	164.4	143.4	
flemmasrecc	210649011	BR	4-Jul-11	7/12/2011	32	2669	6/3/2011	7/4/2011	11.6	280.1	
flemmasrecc	210649011	BR	1-Aug-11	8/9/2011	28	2756	7/5/2011	8/1/2011	0.2	377	
flemmasrecc	210649011	BR	31-Aug-11	9/8/2011	30	2279	8/2/2011	8/31/2011	10.2	292.4	
flemmasrecc	210649011	BR	2-Oct-11	10/10/2011	32	1485	9/1/2011	10/2/2011	148.7	121.8	
flemmasrecc	210649011	BR	31-Oct-11	11/8/2011	29	1222	10/3/2011	10/31/2011	321	31.6	321
flemmasrecc	210649011	BR	30-Nov-11	12/8/2011	30	1535	11/1/2011	11/30/2011	459.6	3.7	459.6
flemmasrecc	210649011	BR	4-Jan-12	1/12/2012	35	2657	12/1/2011	1/4/2012	881.9	0	881.9
flemmasrecc	210649011	BR	31-Jan-12	2/8/2012	27	1931	1/5/2012	1/31/2012	716.5	0	716.5
flemmasrecc	210649011	BR	29-Feb-12	3/8/2012	29	1268	2/1/2012	2/29/2012	722.3	0.3	722.3
flemmasrecc	210649011	BR	1-Apr-12	4/9/2012	32	1033	3/1/2012	4/1/2012	328.2	48	328.2
flemmasrecc	210649011	BR	30-Apr-12	5/8/2012	0	0	5/1/2012	4/30/2012			
flemmasrecc	210649011	AR	3-Jul-12	7/11/2012	30	951	6/27/2012	7/25/2012	2.7	423.5	
flemmasrecc	210649011	AR	31-Jul-12	8/8/2012	28	781	7/27/2012	8/25/2012	20.6	275.3	
flemmasrecc	210649011	AR	3-Sep-12	9/11/2012	34	1043	8/27/2012	9/25/2012	82.4	184.9	
flemmasrecc	210649011	AR	2-Oct-12	10/10/2012	29	651	9/27/2012	10/25/2012	9.2	7.1	

The conservation plan estimated a monthly savings of 92 dollars.

Using weather normalization to estimate the actual savings accounting for weather.



Location ID:	Customer Information Removed for Privacy.
Name	
OwnerName	
Phone	
Assessor	
Date	

Example
Conservation
Plan

How Your Home Uses Energy

model baseline	Elec	Gas	Propane	Wood/Coal
Heating	9,170 kWh	0 kBTU	0 kBTU	0 kBTU
Cooling	4620 kWh	0 kBTU	0 kBTU	
Base	28000 kWh	0 kBTU	0 kBTU	
Total (yr)	41,790 kWh	0 kBTU	0 kBTU	0 kBTU
	41900 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Add spray foam to roof deck behind attic knee walls
- Add Rim Joist Insulation.
- Add Crawlspace Wall Insulation.
- Install Programmable Thermostat.
- Replace HVAC Heating with New HVAC Heating System.
- Seal Duct Work to 10% of fan capacity.
- Replace HVAC Cooling with New HVAC Cooling System.
- 2. Spray foam insulation in attic and crawl space will contribute to reduction of whole house air leakage.
- 1. Weatherstrip, sweep, and / or adjust all (five) exterior doors as needed to create a

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
10078 kWh (Elec)	10,188 kWh (Elec)	10,188 kWh	0.11 /kWh	\$1,121
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$93
before monthly How\$mart Charge

Financing

\$14,322.00 Cost of Improvements (est):

\$2,000.00 Kentucky Home Performance

\$520.00 Customer Contribution

\$300.00 Rebates - Utility

\$11,502.00 Utility Contribution

\$11,502 Not to Exceed Amount (90% of Savings)

@ 3%

over 15 years

\$83 Monthly Charge

89% of projected savings

Next Steps

1. Sign Purchase Agreement
 2. Select contractor and schedule the job
 3. Energy Specialist returns to inspect completed work
 4. Savings begin and installments charge appears on utility bill.
- If, after operation, any of the upgrades fail, the Utility will reevaluate the work.

Acceptance:

I understand that:

Values on previous page are estimates only and are not a guarantee of savings. Energy savings are a best-effort estimation calculated using a computer model. The model takes into account previous usage and characteristics of the house to determine usage and potential savings. Actual savings will vary depending on behavior, weather events, maintenance of the efficiency improvements, and future utility rates.

The Utility has explained what I can do to reduce my energy consumption including, but no limited to: thermostat and other equipment settings, the impact of lighting changes, and additional appliance or home investments not covered under How\$martKY.

Value of the improvements (cost of work) is an estimate and will be verified with the selected contractor. Final monthly charge will be determined at the time of contractor selection. If final project cost is more than the "not to exceed" amount, then customer may opt out of the installation.

Non-payment of the charge will be treated like non-payment of the utility bill potentially resulting in disconnection of service.

The Kentucky Energy Retrofit Rider (marketed as How\$martKY) is a voluntary utility tariff that amortizes the cost of the efficiency improvement over the course of fifteen years or 75% of the expected life of the improvement (whichever is less) at a fixed interest rate. The expected cumulative cost to the customer over the course of the payback period of the improvements is as follows:

		<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge		\$83	\$84		
Capital Investment		\$11,502	\$11,502		
Project Fee(s)	4.50%	\$518	\$518	Payback Period (years)	15
Capital Fee	0.50%	\$58	\$58	Cost of Capital	3%
Total Interest over life of payback		<u>\$2,993</u>	<u>\$3,110</u>		
Total Cost over life of payback		\$15,012	\$15,129		

Account Holder: _____
 print name
 Date: _____

Owner: _____
 print name
 Date: _____



CDD200+ kWhHDD2|kWhCDD2|ProjectedB NrmISav |%NrmISav|%DirectSa|Averages

375.5	3974				
413.8	4237				
		2455			
		3920			
		5368			
		4039			
		3453			
		3115			
		2218			
256.1	3647				
369	2941				
185.5	2232	3319	1087	33%	42%
423.5	2251	3747	1496	40%	38%
275.3	2271	3480	1209	35%	23%
184.9	2588	3318	730	22%	39%

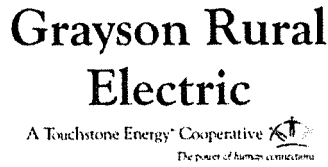
\$1,130.00 Weather Normalized Monthly kwh Average Saved
 32% Weather Normalized Percentage of Savings
 \$124.35 Weather Normalized savings based on \$0.11

This is an exert from the N_WeatherData_All_Completed_Retorfits Oct 2012 Spreadsheet for the example conservation plan given for Page 5 Item 8
 Fleming-Mason Energy Example Conservation Plan 3

CoopCode	LocationID	DataStatus	Pres Rdg Dt	Billing Dt	Days Use	kWh_Usag	StartDate	EndDate	TotalHDD	TotalCDD	HDD200+
flemmasrecc	320439012	BR	2-Aug-10	8/10/2010	29	3974	7/5/2010	8/2/2010	0.3	375.5	
flemmasrecc	320439012	BR	5-Sep-10	9/13/2010	34	4237	8/3/2010	9/5/2010	12.7	413.8	
flemmasrecc	320439012	BR	3-Oct-10	10/11/2010	28	2565	9/6/2010	10/3/2010	87.7	193.6	
flemmasrecc	320439012	BR	1-Nov-10	11/9/2010	29	2455	10/4/2010	11/1/2010	261.8	59.9	261.8
flemmasrecc	320439012	BR	2-Dec-10	12/10/2010	31	3920	11/2/2010	12/2/2010	606.5	7.7	606.5
flemmasrecc	320439012	BR	4-Jan-11	1/12/2011	33	5368	12/3/2010	1/4/2011	1208.8	0	1208.8
flemmasrecc	320439012	BR	1-Feb-11	2/9/2011	28	4039	1/5/2011	2/1/2011	1026.6	0	1026.6
flemmasrecc	320439012	BR	2-Mar-11	3/10/2011	29	3453	2/2/2011	3/2/2011	774.5	0.3	774.5
flemmasrecc	320439012	BR	4-Apr-11	4/12/2011	33	3115	3/3/2011	4/4/2011	612.4	16.5	612.4
flemmasrecc	320439012	BR	3-May-11	5/11/2011	29	2218	4/5/2011	5/3/2011	217.1	45.5	217.1
flemmasrecc	320439012	BR	6-Jun-11	6/14/2011	34	3834	5/4/2011	6/6/2011	147.4	184.4	
flemmasrecc	320439012	BR	6-Jul-11	7/14/2011	30	3647	6/7/2011	7/6/2011	11	256.1	
flemmasrecc	320439012	BR	2-Aug-11	8/10/2011	27	2941	7/7/2011	8/2/2011	0.2	369	
flemmasrecc	320439012	AR	4-Jun-12	6/12/2012	34	2232	5/2/2012	6/4/2012	80.1	185.5	
flemmasrecc	320439012	AR	3-Jul-12	7/11/2012	29	2251	6/27/2012	7/25/2012	2.7	423.5	
flemmasrecc	320439012	AR	1-Aug-12	8/9/2012	29	2271	7/27/2012	8/25/2012	20.6	275.3	
flemmasrecc	320439012	AR	4-Sep-12	9/12/2012	34	2588	8/27/2012	9/25/2012	82.4	184.9	
flemmasrecc	320439012	AR	3-Oct-12	10/11/2012	29	1997	9/27/2012	10/25/2012	9.2	7.1	

The conservation plan estimated a monthly savings of 93 dollars.

Using weather normalization to estimate the actual savings accounting for weather.



Location ID:	Customer Information Removed for Privacy.
Name	
OwnerName	
Phone	
Assessor	
Date	

Example
Conservation
Plan

How Your Home Uses Energy

model baseline		Elec	Gas	Propane	Wood/Coal
	Heating	4,430 kWh	0 kBTU	0 kBTU	0 kBTU
	Cooling	1960 kWh	0 kBTU	0 kBTU	
	Base	14700 kWh	0 kBTU	0 kBTU	
	Total (yr)	21,090 kWh	0 kBTU	0 kBTU	0 kBTU
		24700 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Add Rim Joist Insulation.
- Install R-19 insulation in floor.
- Install Programmable Thermostat.
- Replace HVAC Heating with New HVAC Heating System.
- Replace HVAC Cooling with New HVAC Cooling System.
- Seal or remove whole house fan
- Seal beams in living room and kitchen
- Seal attic access in rear bedroom closet
- Reduce house air leakage from 2287 to 1100 cfm50.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
4134 kWh (Elec)	7,744 kWh (Elec)	7,744 kWh	0.11 /kWh	\$852
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$71
before monthly How\$mart Charge

Financing

\$7,298.23 **Cost of Improvements (est):**

\$1,459.65 **Kentucky Home Performance**

\$500.00 **Rebates - Utility**

\$5,338.58 **Utility Contribution**

\$8,743 Not to Exceed Amount (90% of Savings)

@ 3%
over 15 years

\$39 Monthly Charge
55% of projected savings

Next Steps

1. Sign Purchase Agreement
 2. Select contractor and schedule the job
 3. Energy Specialist returns to inspect completed work
 4. Savings begin and installments charge appears on utility bill.
- If, after operation, any of the upgrades fail, the Utility will reevaluate the work.

Acceptance:

I understand that:

Values on previous page are estimates only and are not a guarantee of savings. Energy savings are a best-effort estimation calculated using a computer model. The model takes into account previous usage and characteristics of the house to determine usage and potential savings. Actual savings will vary depending on behavior, weather events, maintenance of the efficiency improvements, and future utility rates.

The Utility has explained what I can do to reduce my energy consumption including, but no limited to: thermostat and other equipment settings, the impact of lighting changes, and additional appliance or home investments not covered under How\$martKY.

Value of the improvements (cost of work) is an estimate and will be verified with the selected contractor. Final monthly charge will be determined at the time of contractor selection. If final project cost is more than the "not to exceed" amount, then customer may opt out of the installation.

Non-payment of the charge will be treated like non-payment of the utility bill potentially resulting in disconnection of service.

The Kentucky Energy Retrofit Rider (marketed as How\$martKY) is a voluntary utility tariff that amortizes the cost of the efficiency improvement over the course of fifteen years or 75% of the expected life of the improvement (whichever is less) at a fixed interest rate. The expected cumulative cost to the customer over the course of the payback period of the improvements is as follows:

	<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge	\$39	\$64		
Capital Investment	\$5,339	\$8,743		
Project Fee(s)	4.50%	\$240	\$393	Payback Period (years) 15
Capital Fee	0.50%	\$27	\$44	Cost of Capital 3%
Total Interest over life of payback	<u>\$1,389</u>	<u>\$2,364</u>		
Total Cost over life of payback	\$6,968	\$11,500		

Account Holder: _____
print name

Date: _____

Owner: _____
print name

Date: _____



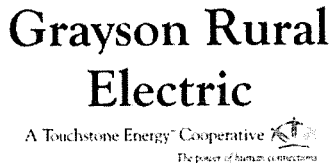
Energy Efficiency for Everyone

This is an excerpt from the N_WeatherData_All_Completed_Retorfits Oct 2012 Spreadsheet for the example conservation plan given for Page 5 Item

CoopCode	LocationID	DataStatus	Pres Rdg Dt	Billing Dt	Days Use	kWh_Usag	StartDate	EndDate	TotalHDD
GRAYSONRECC	540104076012	BR	12-Apr-10	4/20/2010	31	1497	3/13/2010	4/12/2010	381.3
GRAYSONRECC	540104076012	BR	11-May-10	5/19/2010	29	948	4/13/2010	5/11/2010	202.6
GRAYSONRECC	540104076012	BR	12-Jun-10	6/20/2010	32	1410	5/12/2010	6/12/2010	34.5
GRAYSONRECC	540104076012	BR	11-Jul-10	7/19/2010	29	1822	6/13/2010	7/11/2010	4.4
GRAYSONRECC	540104076012	BR	12-Aug-10	8/20/2010	32	1861	7/12/2010	8/12/2010	0.9
GRAYSONRECC	540104076012	BR	12-Sep-10	9/20/2010	31	1790	8/13/2010	9/12/2010	19.4
GRAYSONRECC	540104076012	BR	12-Oct-10	10/20/2010	30	1337	9/13/2010	10/12/2010	146.9
GRAYSONRECC	540104076012	BR	12-Nov-10	11/20/2010	31	1523	10/13/2010	11/12/2010	392.5
GRAYSONRECC	540104076012	BR	11-Dec-10	12/19/2010	29	2897	11/13/2010	12/11/2010	751.8
GRAYSONRECC	540104076012	BR	12-Jan-11	1/20/2011	32	3649	12/12/2010	1/12/2011	1197.7
GRAYSONRECC	540104076012	BR	12-Feb-11	2/20/2011	31	3120	1/13/2011	2/12/2011	1116.5
GRAYSONRECC	540104076012	BR	11-Mar-11	3/19/2011	27	2462	2/13/2011	3/11/2011	541.3
GRAYSONRECC	540104076012	BR	11-Apr-11	4/19/2011	31	2243	3/12/2011	4/11/2011	471
graysonrecc	540104076012	AR	12-Jan-12	1/20/2012	32	862	12/12/2011	1/12/2012	772.9
graysonrecc	540104076012	AR	11-Feb-12	2/19/2012	30	386	1/13/2012	2/11/2012	829.3
graysonrecc	540104076012	AR	12-Mar-12	3/20/2012	30	270	2/12/2012	3/12/2012	652
graysonrecc	540104076012	AR	12-Apr-12	4/20/2012	31	273	3/13/2012	4/12/2012	241.3
graysonrecc	540104076012	AR	12-May-12	5/20/2012	30	302	4/13/2012	5/12/2012	188.7
graysonrecc	540104076012	AR	12-Jun-12	6/20/2012	31	427	5/27/2012	6/25/2012	44.6
graysonrecc	540104076012	AR	12-Jul-12	7/20/2012	30	208	6/27/2012	7/25/2012	2.7
graysonrecc	540104076012	AR	12-Aug-12	8/20/2012	31	253	7/27/2012	8/25/2012	20.6
graysonrecc	540104076012	AR	12-Sep-12	9/20/2012	31	386	8/27/2012	9/25/2012	82.4

The conservation plan estimated a monthly savings of 71 dollars.

Using weather normalization to estimate the actual savings accounting for weather.



Location ID:	Customer Information Removed for Privacy.
Name	
OwnerName	
Phone	
Assessor	
Date	

Example
Conservation
Plan

How Your Home Uses Energy

model baseline	Elec	Gas	Propane	Wood/Coal
Heating	4,820 kWh	0 kBTU	0 kBTU	0 kBTU
Cooling	1700 kWh	0 kBTU	0 kBTU	
Base	14500 kWh	0 kBTU	0 kBTU	
Total (yr)	21,020 kWh	0 kBTU	0 kBTU	0 kBTU
	21100 kWh	0 kBTU	0 kBTU	0 kBTU

Your home uses energy for heating, cooling, and base load (which is everything that is not heating or cooling).

How Your Home Could Save Energy

- Install Programmable Thermostat.
- Replace HVAC Heating with New HVAC Heating System.
- Seal Duct Work to 10% of fan capacity.
- Replace HVAC Cooling with New HVAC Cooling System.

<u>Savings from Baseline:</u>	<u>Savings from Actuals:</u>	<u>Conversions to Fuel</u>	<u>Current Rates</u>	<u>Projected Savings (yr)</u>
3468 kWh (Elec)	3,548 kWh (Elec)	3,548 kWh	0.11 /kWh	\$390
0 kBTU (Gas)	0 kBTU (Gas)	0 therms	2.00 /Therm	\$0
0 kBTU (Propane)	0 kBTU (Propane)	0 Gal	2.50 /Gal	\$0

Based on savings from insulation and air seal only due to calibration.

Projected Avg Energy Savings (mo) \$33
before monthly HowSmart Charge

Financing

\$4,250.00 Cost of Improvements (est):

\$850.00 Kentucky Home Performance
\$500.00 Rebates - Utility

\$2,900.00 Utility Contribution
 \$4,005 Not to Exceed Amount (90% of Savings)
 @ 3%
 over 15 years
\$21 Monthly Charge
 65% of projected savings

Next Steps

1. Sign Purchase Agreement
 2. Select contractor and schedule the job
 3. Energy Specialist returns to inspect completed work
 4. Savings begin and installments charge appears on utility bill.
- If, after operation, any of the upgrades fail, the Utility will reevaluate the work.

Acceptance:

I understand that:

Values on previous page are estimates only and are not a guarantee of savings. Energy savings are a best-effort estimation calculated using a computer model. The model takes into account previous usage and characteristics of the house to determine usage and potential savings. Actual savings will vary depending on behavior, weather events, maintenance of the efficiency improvements, and future utility rates.

The Utility has explained what I can do to reduce my energy consumption including, but no limited to: thermostat and other equipment settings, the impact of lighting changes, and additional appliance or home investments not covered under How\$martKY.

Value of the improvements (cost of work) is an estimate and will be verified with the selected contractor. Final monthly charge will be determined at the time of contractor selection. If final project cost is more than the "not to exceed" amount, then customer may opt out of the installation.

Non-payment of the charge will be treated like non-payment of the utility bill potentially resulting in disconnection of service.

The Kentucky Energy Retrofit Rider (marketed as How\$martKY) is a voluntary utility tariff that amortizes the cost of the efficiency improvement over the course of fifteen years or 75% of the expected life of the improvement (whichever is less) at a fixed interest rate. The expected cumulative cost to the customer over the course of the payback period of the improvements is as follows:

		<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge		\$20	\$21		
Capital Investment		\$2,732	\$2,895		
Project Fee(s)	4.50%	\$123	\$130	Payback Period (years)	15
Capital Fee	0.50%	\$14	\$14	Cost of Capital	3%
Total Interest over life of payback		<u>\$711</u>	<u>\$783</u>		
Total Cost over life of payback		\$3,566	\$3,808		

Account Holder: _____
print name

Date: _____

Owner: _____
print name

Date: _____



Next Steps

1. Sign Purchase Agreement
 2. Select contractor and schedule the job
 3. Energy Specialist returns to inspect completed work
 4. Savings begin and installments charge appears on utility bill.
- If, after operation, any of the upgrades fail, the Utility will reevaluate the work.

Acceptance:

I understand that:

Values on previous page are estimates only and are not a guarantee of savings. Energy savings are a best-effort estimation calculated using a computer model. The model takes into account previous usage and characteristics of the house to determine usage and potential savings. Actual savings will vary depending on behavior, weather events, maintenance of the efficiency improvements, and future utility rates.

The Utility has explained what I can do to reduce my energy consumption including, but no limited to: thermostat and other equipment settings, the impact of lighting changes, and additional appliance or home investments not covered under How\$martKY.

Value of the improvements (cost of work) is an estimate and will be verified with the selected contractor. Final monthly charge will be determined at the time of contractor selection. If final project cost is more than the "not to exceed" amount, then customer may opt out of the installation.

Non-payment of the charge will be treated like non-payment of the utility bill potentially resulting in disconnection of service.

The Kentucky Energy Retrofit Rider (marketed as How\$martKY) is a voluntary utility tariff that amortizes the cost of the efficiency improvement over the course of fifteen years or 75% of the expected life of the improvement (whichever is less) at a fixed interest rate. The expected cumulative cost to the customer over the course of the payback period of the improvements is as follows:

		<u>Estimate</u>	<u>Not to Exceed</u>		
Fixed Monthly Charge		\$21	\$29		
Capital Investment		\$2,900	\$4,005		
Project Fee(s)	4.50%	\$131	\$180	Payback Period (years)	15
Capital Fee	0.50%	\$15	\$20	Cost of Capital	3%
Total Interest over life of payback		<u>\$755</u>	<u>\$1,083</u>		
Total Cost over life of payback		\$3,785	\$5,269		

Account Holder: _____
print name

Date: _____

Owner: _____
print name

Date: _____



This is an excerpt from the N_WeatherData_All_Completed_Retorfits Oct 2012 Spreadsheet for the example conservation plan given for Page 5 | Grayson Example Conservation Plan 2

CoopCode	LocationID	DataStatus	Pres Rgd Dt	Billing Dt	Days Use	kWh_Usage	StartDate	EndDate	TotalHDD
graysonrecc	542206033017	BR	10-Jul-10	7/18/2010	29	1757	6/12/2010	7/10/2010	4.3
graysonrecc	542206033017	BR	12-Aug-10	8/20/2010	33	2037	7/11/2010	8/12/2010	1
graysonrecc	542206033017	BR	12-Sep-10	9/20/2010	31	1577	8/13/2010	9/12/2010	19.4
graysonrecc	542206033017	BR	12-Oct-10	10/20/2010	30	1192	9/13/2010	10/12/2010	146.9
graysonrecc	542206033017	BR	11-Nov-10	11/19/2010	30	1418	10/13/2010	11/11/2010	380.4
graysonrecc	542206033017	BR	11-Dec-10	12/19/2010	30	2182	11/12/2010	12/11/2010	763.9
graysonrecc	542206033017	BR	11-Jan-11	1/19/2011	31	2464	12/12/2010	1/11/2011	1152.4
graysonrecc	542206033017	BR	11-Feb-11	2/19/2011	31	2402	1/12/2011	2/11/2011	1129.4
graysonrecc	542206033017	BR	12-Mar-11	3/20/2011	29	1529	2/12/2011	3/12/2011	586.9
graysonrecc	542206033017	BR	10-Apr-11	4/18/2011	29	1465	3/13/2011	4/10/2011	455.2
graysonrecc	542206033017	BR	12-May-11	5/20/2011	32	1314	4/11/2011	5/12/2011	233
graysonrecc	542206033017	BR	12-Jun-11	6/20/2011	31	1432	5/13/2011	6/12/2011	87.3
graysonrecc	542206033017	BR	12-Jul-11	7/20/2011	30	1470	6/13/2011	7/12/2011	11.2
graysonrecc	542206033017	AR	11-Feb-12	2/19/2012	30	1552	1/13/2012	2/11/2012	829.3
graysonrecc	542206033017	AR	12-Mar-12	3/20/2012	30	1195	2/12/2012	3/12/2012	652
graysonrecc	542206033017	AR	12-Apr-12	4/20/2012	31	1173	3/13/2012	4/12/2012	241.3
graysonrecc	542206033017	AR	12-May-12	5/20/2012	30	1035	4/13/2012	5/12/2012	188.7
graysonrecc	542206033017	AR	11-Jun-12	6/19/2012	30	923	5/27/2012	6/25/2012	44.6
graysonrecc	542206033017	AR	12-Jul-12	7/20/2012	31	1114	6/27/2012	7/25/2012	2.7
graysonrecc	542206033017	AR	12-Aug-12	8/20/2012	31	1083	7/27/2012	8/25/2012	20.6
graysonrecc	542206033017	AR	12-Sep-12	9/20/2012	31	1074	8/27/2012	9/25/2012	82.4

The conservation plan estimated a monthly savings of 33 dollars.

Using weather normalization to estimate the actual savings accounting for weather.

Item 8

TotalCDD	HDD200+	CDD200+	kWhHDD2	kWhCDD2	ProjectedB	NrmI	Sav	%NrmI	Sav	%Direct	Sav	Averages
357.6		357.6		1757								
443.5		443.5		2037								
306.2		306.2		1577								
175.1												
27.2	380.4		1418									
4.2	763.9		2182									
0	1152.4		2464									
0	1129.4		2402									
0.4	586.9		1529									
27.8	455.2		1465									
55.9	233		1314									
228.1		228.1		1432								
251.9		251.9		1470								
0	829.3		1552		2037	485	24%	35%				
1.1	652		1195		1798	603	34%	22%				
55.9	241.3		1173		1246	73	6%	20%				
83.9	188.7		1035		1175	140	12%	21%				
248.1		248.1		923	1459	536	37%	36%				
423.5		423.5		1114	1962	848	43%	24%				
275.3		275.3		1083	1537	454	30%	30%				
184.9		184.9		1074	1277	203	16%	10%				
											418	
											25%	
											\$45.96	

Weather Normalized Monthly kWh Average Saved
Weather Normalized Percentage of Savings
Weather Normalized savings based on \$0.11



Witness: Big Sandy – Bruce Aaron Davis

Fleming Mason – Joni Hazelrigg

Grayson – Don Combs

MACED – Bill Blair

Case No. 2012-00484
First Data Request –Dec. 14, 2012

9. Refer to page 6, Item No. 17 of the Application. For your particular cooperative, provide an itemized breakdown of all funding sources, including name and dollar amount, that will be providing funds for the program administration, sources of the funding, and any adjustments to the revenue structure of the program.

Response:

To date, MACED has raised \$1 million to cover the operating expenses associated with conducting the KER pilot program. This money does not include the lending capital MACED has raised. This funding comes from a mix of grants from private foundations and state agencies, including: blue moon fund; Chorus Foundation; Civil Society Institute; David Rockefeller Fund; F. B. Heron Foundation; Ford Foundation; Kentucky Housing Corporation; Mary Reynolds Babcock Foundation; Merck Family Fund; Mertz Gilmore Foundation; New World Foundation; Rockefeller Brothers Fund; Surdna Foundation; and William Randolph Hearst Foundation. It should be noted that, aside from three of the funders listed, KER pilot funding is drawn from grants that support other aspects of MACED's work beyond the KER pilot. Currently, MACED has recently been approved for \$300,000 in funding from a TVA Environmental Mitigation Grant to be applied to KER. Going forward, MACED will continue to seek outside funding sources and will also institute a schedule of fees for the services provided under the KER program to assist with the long-term sustainability of the program.

TVA Environmental Mitigation Grant funds will be used to subsidize a portion of these fees.

Witness: Big Sandy – Bruce Aaron Davis

Fleming Mason – Joni Hazelrigg

Grayson – Don Combs

MACED – Bill Blair

Case No. 2012-00484
First Data Request –Dec. 14, 2012

10. Refer to the Application, pages 6 and 7, Item No. 18.

a. On pages 6 and 7 there is a discussion about the September 2012 United State Department of Agriculture’s Rural Utilities Service (“RUS”) Notice of Proposed Rulemaking regarding the Energy Efficiency and Conservation Loan Program (“Program”), which proposes to allow qualified energy-efficiency programs, the standards to which the KER Rider programs appears to comply, to constitute an eligible use of the program funds for active borrowers in good standing with RUS.

(1) Explain what steps your particular cooperative has taken in an attempt to ensure the KER Rider is an eligible use of the Program funds.

(2) If known, state when Program funds will be available for your particular cooperative for energy-efficiency programs.

(3) Identify all procedures and costs necessary to implement the Program at your particular cooperative.

b. Explain whether any additional funding supporting the on-bill financing program has been earmarked or received to date at your particular cooperative.

Witness: Big Sandy – Bruce Aaron Davis

Fleming Mason – Joni Hazelrigg

Grayson – Don Combs

MACED – Bill Blair

Case No. 2012-00484
First Data Request –Dec. 14, 2012

Response:

a.

1. Comments were made during the comment period that expressed our interest in the program. As of this date a final ruling has not been made

2. Not known at this time.

3. Not known at this time.

b. None



Witness: Big Sandy – Bruce Aaron Davis

Fleming Mason – Joni Hazelrigg

Grayson – Don Combs

MACED – Bill Blair

Case No. 2012-00484

First Data Request –Dec. 14, 2012

11. Refer to Exhibit A of the Application. Joint Applicants describe Exhibit A as the current KY Energy Retrofit Rider Tariff with proposed changes indicated by striking over deletions and adding or changing text as noted. Confirm that Exhibit A is actually the proposed tariff and Exhibit B is the tariff with changes indicated.

Response:

We confirm that Exhibit A is actually the proposed tariff and Exhibit B is the tariff with changes indicated.



Witness: Big Sandy – Bruce Aaron Davis
Fleming Mason – Joni Hazelrigg
Grayson – Don Combs
MACED – Bill Blair

Case No. 2012-00484
First Data Request –Dec. 14, 2012

12. Refer to Exhibit B, page 3, of the existing rider where there is a proposed text change to revise the annual interest rate in the Retrofit Project Charge from the Company's current average cost of long-term debt to the cost of capital used by the capital provider to finance the project.

- a. Explain the basis of this proposed change.
- b. Identify how the KER Rider would be jeopardized if this specific change is not made to the existing program.
- c. State whether this change represents an increase in the Retrofit Project Charge.
- d. State whether the terms "annual interest rate" and "cost of capital" are synonymous for purposes of the Retrofit Project Charge.

Response:

- a. The purpose of the change is to directly tie the cost of the capital used to the interest rate in the retrofit project charge, thus keeping the capital cost revenue neutral.
- b. If the capital costs are not revenue neutral, additional capital costs could accrue to the customer or to the coop.
- c. No
- d. Yes



Witness: Big Sandy – Bruce Aaron Davis

Fleming Mason – Joni Hazelrigg

Grayson – Don Combs

MACED – Bill Blair

Case No. 2012-00484

First Data Request –Dec. 14, 2012

14. This Item is requested only of Fleming-Mason. In Case No. 2012-00369,² Fleming-Mason Energy Cooperative Inc. is requesting a rate design change as well as new tariffs for Time of Day Rates and Inclining Block Rates in a revenue neutral case. If approved, describe what impacts, if any, the proposed changes will have on the administration and costs of the KER Rider at Fleming-Mason.

Response:

These changes will have no effect on the cost of the KER Rider or the administration.

² Case No. 2012-00369, Application of Fleming-Mason Energy Cooperative, Inc. for an Order Authorizing a Change in Rate Design for Its Residential Rate Classes, and the Offering of Several Optional Rate Designs for the Residential Rate Classes, filed Nov. 21, 2012.

Witness: Big Sandy – Bruce Aaron Davis

Fleming Mason – Joni Hazelrigg

Grayson – Don Combs

MACED – Bill Blair

Case No. 2012-00484

First Data Request –Dec. 14, 2012

13. This Item is requested only of Big Sandy. In Case No. 2012-00030,¹ Big Sandy was granted a rate increase accompanied with a change in its rate design. Describe what impacts, if any, the granted changes will have on the administration and costs of the KER Rider at Big Sandy.

Response:

These changes will have no effect on the cost of the KER Rider or the administration.

¹ Case No. 2012-00030, Application of Big Sandy Rural Electric Cooperative Corporation for an Adjustment of Rates, (Ky. PSC Oct. 31, 2012).