Grayson Rural Electric Cooperative Corporation

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COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

OCT 05 2010

PUBLIC SERVICE COMMISSION

BEFORE THE PUBLIC SER

THE JOINT APPLICATION OF BIG SANDY)
RURAL ELECTRIC, FLEMING-MASON)
ENERGY, GRAYSON RURAL ELECTRIC,) CASE 2010-00089
AND JACKSON ENERGY FOR AN ORDER)
APPROVING AN ON-BILL FINANCING)
PILOT PROGRAM TITLED THE "KY)
ENERGY RETROFIT RIDER")

October 5, 2010

In the Matter of:

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

Mr. Derouen:

Please find attached a response answering issues brought up at the informal conference held on September 21, 2010.

If there are any questions, please feel free to inquire at (606) 474-5136.

Sincerely,

Don M. Combs Grayson Rural Electric

For: Big Sandy Rural Electric Fleming-Mason Energy Grayson Rural Electric Jackson Energy The undersigned, Don M. Combs, as Mgr. of Finance & Accounting, being first duly sworn, states that the responses herein are true to the best of my knowledge and belief formed after reasonable inquiry.

Dated: October 4, 2010

Grayson Rural Electric

Bv:

Don M. Combs Mgr. Finance & Accounting

Subscribed, sworn to, and acknowledged before me by Don M. Combs, as Mgr. Finance & Accounting for Grayson Rural Electric on behalf of said Corporation this 4th day of October, 2010.

Marsha a. Thanker Notary Public, State at Large

My commission expires: 1-9-2011

The undersigned, Joni K. Hazelrigg, as CFO of Fleming-Mason Energy Cooperative, Inc., being first duly sworn, states that the responses herein are true to the best of my knowledge and belief formed after reasonable inquiry.

Dated: October 4, 2010

Fleming-Mason Energy Cooperative, Inc.

∜ Joni K. Hazelrigg

Chief Financial Officer

Subscribed, sworn to, and acknowledged before me by Joni K. Hazelrigg, on behalf of said Corporation this 4th day of October, 2010.

Notary Public, State of Kentucky At Large

My commission expires: 4, 20/2

The undersigned, David Estepp, as President & General Manager of Big Sandy RECC, being first duly sworn, states that the responses herein are true to the best of my knowledge and belief formed after reasonable inquiry.

Dated: October 4, 2010

Big Sandy RECC

David Estepp

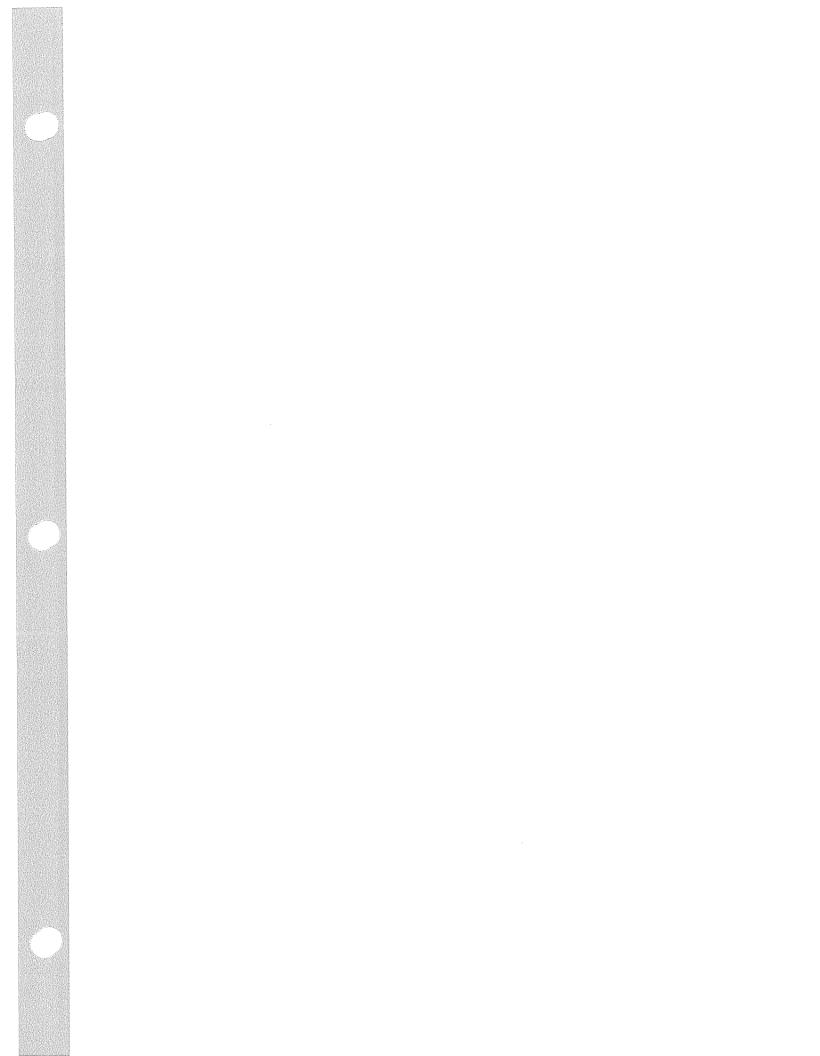
President & General Manager

State of Kentucky, a Notary Public of the County of Johnson, State of Kentucky, do hereby certify that Land Estay personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and official seal this 4th day of October. 2010

My commission expires 4/12/12.

(Notary Public)



1. Joint Applicants information from actual audits conducted by the utilities and how the on-bill tariff would be applied:

The joint applicants have reviewed a sample of energy retrofits under prior program initiatives that are representative of the scope of retrofits likely to be completed through the KY Energy Retrofit Rider pilot (fig. A). These six retrofits reduced energy usage by 25% to 45%, resulting in annual savings in year one of \$665 to \$1903. Initial capital investments ranged from \$1,845 to \$7,855.

Figure A – Utility Retrofit Outcomes

Example	Annual Savings in Year 1 (kWh)	Annual Savings in Year 1 (\$)	Customer's Cost of Retrofit (\$)				
A – Weatherization	6,197	\$ 665	\$ 4,000				
B – HVAC replacement	8,484	\$ 911	\$ 4,500				
C – HVAC, Weatherizatio	on 19,035	\$ 1,904	\$ 7,855				
D – HVAC, Wx, Windows	6,914	\$ 691	\$ 7,548				
E – Weatherization	12,919	\$ 1,292	\$ 1,845				
F – Weatherization	6,093	\$ 609	\$ 3,422				

Had these retrofits been completed through the KY Energy Retrofit Rider tariff, participants would not have had to come up with the upfront investment; a portion of the realized energy savings (47% on average) would have been tapped to amortize the retrofit (see attached spreadsheet for calculations). These examples clearly demonstrate the applicability of the On Bill model to real-life retrofits in the Joint-Applicants' service areas.

Figure B – On Bill Tariff Applied

Example	Annual Tariff (\$)	% of Savings used for Tariff	Customer's Cost of Retrofit (\$)	Annual Savings after Tariff in Year 1
A – Weatherization	\$ 348	52%	-	\$ 317
B – HVAC replacement	\$ 392	43%	-	\$ 519
C – HVAC, Weatherization	n \$ 683	36%		\$ 1,220
D – HVAC, Wx, Windows	\$ 615	89%	\$ 500	\$ 76
E – Weatherization	\$ 161	12%	-	\$ 1,131
F – Weatherization	\$ 298	49%	-	\$ 312

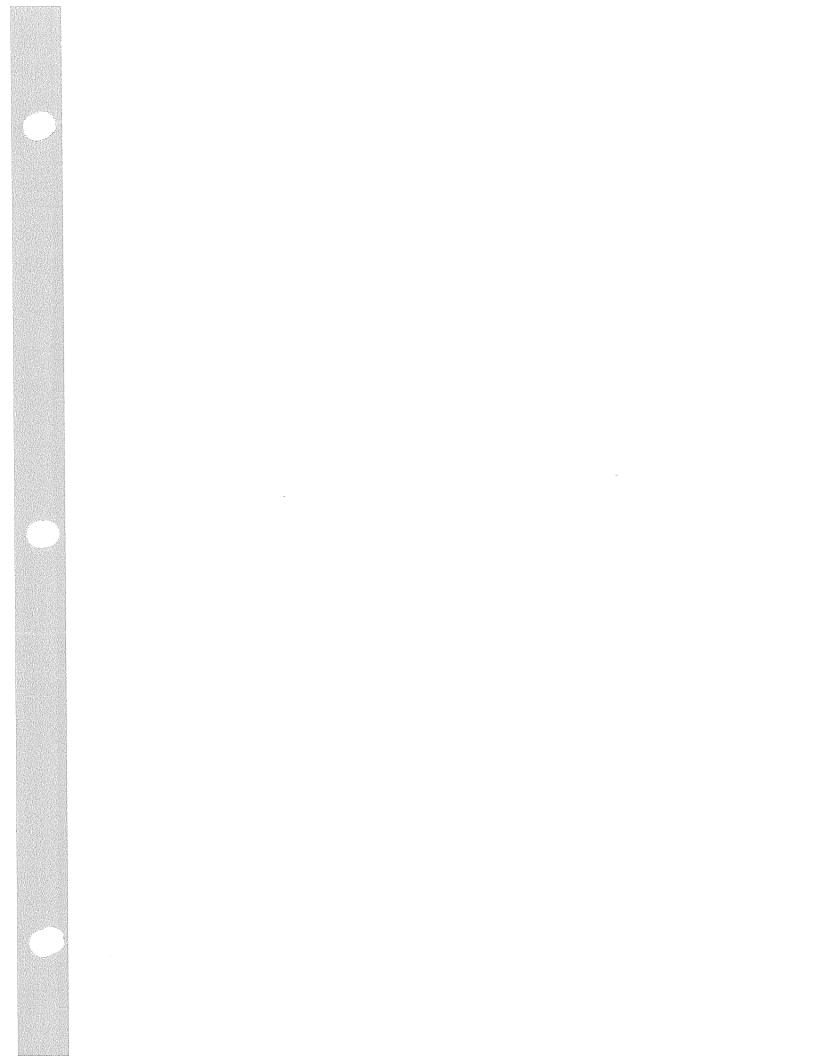
^{*} Example of a case where additional subsidy may be needed to reduce the upfront capital cost

Please note that 15 year amortization schedules are assumed – though customers may opt to amortize their retrofit sooner if desired. All the retrofit measures included have expected useful lives beyond the amortization period – including HVAC systems.¹

¹ ASHRAE's average service life for the types of HVAC systems installed in typical retrofits is 24.5 years [http://xp20.ashrae.org/publicdatabase/system_service_life.asp?selected_system_type=6].

How Tariffed Retrofits Would Work Using Energy Savings Data From Actual Retrofits Completed by Joint Applicants

		Energy Efficiency Measures		Cost of Retrofit	kwh Historial Annual Usage	nate Annual Utility Charge	kwh Post-retrofit Usage האסיויאיוי	nate/kwill Annual Utility Charge	Cost of Retrofit to Customer	Annual Consumer Savings Year 1	kWh Total Energy Reduction		Cost of Retrofit	Energy Services Fee Total Efficiency Investment	kwh Historial Annual Usage	Rate Annual Utility Charge	kwh Post-retrofit Usage	kate/ KWN	KY Energy Retrofit Rider Tariff (15 years at 3%) Annual Utility Charge	Cost of Retrofit to Customer	Annual Consumer Savings Year 1	kWh Total Energy Reduction	% of Savings used for Tariff
;	F - House Fleming-Mason RECC	Insulation, Air Sealing		\$ 3,422.00	23,121	\$ 2,312.10	17,028	\$ 1,702.80	\$ 3,422.00	\$ (609.30)	(6,093)		\$ 3,422.00	5 3,593.10		\$ 2,312.10		\$ 1,702.80	\$ 297.76	· •	\$ (311.54)	(6,093)	49%
:	E - House Fleming-Mason RECC	Duct Sealing, Insulation, Air Sealing		\$ 1,845.00	36,031	\$ 3,603.10	23,112	\$ 2,311.20	\$ 1,845.00	\$ (1,291.90)	(12,919)		\$ 1,845.00	5% \$ 1,937.25	36,031	0.10 \$ 3,603.10	23,112	\$ 2,311.20	\$ 160.54 \$ 2,471.74	· •	\$ (1,131.36)	(12,919)	12%
ł	D - House Jackson RECC	insulation, Air Sealing, HVAC, Windows	10 m	\$ 7,548.30	22,144	\$ 2,214.44	15,231	\$ 1,523.05	\$ 7,548.30	\$ (691.39)	(6,914)		\$ 7,548.30	5% \$ 7,925.72	22,144	\$ 2,214.44	15,231	0.10	\$ 615.37	\$ 500.00	\$ (76.02)	(6,914)	%68
:	C - House Jackson RECC	Insulation, Air Sealing, HVAC		\$ 7,854.74	41,930	\$ 4,192.99	22,895	\$ 2,289.47	\$ 7,854.74	\$ (1,903.52)	(19,035)		\$ 7,854.74	5% \$ 8,247.48	41,930	0.10 \$ 4,192.99	22,895	\$ 2,289.47			\$ (1,220.06)	(19,035)	36%
; -	B - Single Story Grayson RECC	HVAC Replacement of Resistance Heat		\$ 4,500.00	33,122	\$ 3,554.66	24,638	\$ 2,644.13	\$ 4,500.00	\$ (910.54)	(8,484)	polled	\$ 4,500.00	\$ 4,725.00	33,122	0.10732	24,638	\$ 2,644.13		· •	\$ (518.98)	(8,484)	43%
	A - Farmhouse Grayson RECC	insulation, Air Sealing, Foundation	Prior Retrofft	\$ 4,000.00	24,509	\$ 2,630.31	18,312	\$ 1,965.24	\$ 4,000.00	\$ (665.06)	(6,197)	On Bill Model Applied	\$ 4,000.00	5% \$ 4,200.00	24,509	0.10732	18,312	\$ 1,965.24	\$ 348.05	· •	\$ (317.01)	(6,197)	25%
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2. How energy assistance payments from Low Incor e Home Energy Assistance Program or from a community action agency would apply to custom ers who are on an on-bill financing program:

The joint applicants have consulted with the Commun ty Action Council partners about currently available energy assistance programs for low income cople including LIHEAP Low Income Housing Energy explained assistance Program, CSBG ARRA Emergency Assistance Function, and the assistance funds offered by local utilities. In each case the participation criteria were limited to (1) demonstrating income and (2) pending disconnection. Assistance amounts are a function of the energy total utility bill outstanding, a qualified persons' income and the available budget of assistance funds. Assistance providers refer to beneficiary's total outstanding utility bills, not comported entities of those bills. None of the programs consulted reported any chance of diminishe qualification for emergency assistance payments as a result of a customer's participation in a tariffed expression.