EXHIBIT

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Low-Income Weatherization Sharlet E. Kroll Missouri Department of Economic Development – Division of Energy Surrebuttal Testimony ER-2016-0023

FILED August 11, 2016 Data Center Missouri Public Service Commission

MISSOURI PUBLIC SERVICE COMMISSION

EMPIRE DISTRICT ELECTRIC COMPANY

CASE NO. ER-2016-0023

SURREBUTTAL TESTIMONY

OF

SHARLET E. KROLL

ON

BEHALF OF

MISSOURI DEPARTMENT OF ECONOMIC DEVELOPMENT

DIVISION OF ENERGY

Jefferson City, Missouri May 16, 2016

(Low-Income Weatherization)

 $\frac{OE}{Date b-02-16}$ Reporter <u>XF</u> File No. <u>F-R-</u> $\frac{2016-0023}{2}$

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of The Empire)District Electric Company's Request)for Authority to Implement a General)Rate Increase for Electric Service)

AFFIDAVIT OF SHARLET E. KROLL

STATE OF MISSOURI)	
)	S S
COUNTY OF COLE)	

Sharlet E. Kroll, of lawful age, being duly sworn on her oath, deposes and states:

- 1. My name is Sharlet E. Kroll. I work in the City of Jefferson, Missouri, and I am employed by the Missouri Department of Economic Development, Division of Energy as a Planner II.
- Attached hereto and made a part hereof for all purposes is my Surrebuttal Testimony on behalf of the Missouri Department of Economic Development – Division of Energy.
- 3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct to the best of my knowledge.

Shales Schoold

Subscribed and sworn to before me this 16^{th} day of May, 2016.

Leliosa ann adams

Notary Public

My commission expires:

MELISSA ANN ADAMS
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: March 09, 2019
Commission Number: 15633820

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1	I.	INTRODUCTION
2	Q.	Please state your name and business address.
3	А.	My name is Sharlet E. Kroll. My business address is 301 West High Street, Suite 720, PO
4		Box 1766, Jefferson City, Missouri 65102.
5	Q.	By whom and in what capacity are you employed?
6	А.	I am employed by the Missouri Department of Economic Development ("DED") -
7		Division of Energy ("DE") as a Planner II Energy Policy Analyst.
8	Q.	Have you previously filed testimony before the Missouri Public Service Commission
9		("Commission") in this case (ER-2016-0023)?
10	А.	Yes. I submitted Rebuttal Testimony (Low-Income Weatherization and Low-Income
11		Characteristics) on behalf of DE regarding The Empire District Company's ("Empire" or
12		"Company") weatherization program.
13	II.	PURPOSE AND SUMMARY OF TESTIMONY
14	Q.	What is the purpose of your Surrebuttal Testimony in this proceeding?
15	А.	The purpose of my Surrebuttal Testimony is to respond to the Company's claims that an
16		increase in the customer charge will reduce usage by low-income customers who receive
17		governmental assistance to pay their utility bills. I will also offer additional clarification
18		as to the Company's weatherization program.

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III. RESPONSE TO COMPANY'S STATEMENTS REGARDING HIGH USE, LOW-INCOME CUSTOMERS

Q. In his Rebuttal Testimony, Mr. Keith claims that "...Empire's customers using government assistance to pay their electric bills would benefit from an upward shift in the customer charge,..."¹. Do increased customer charges have a different impact on Low-Income Home Energy Assistance Program ("LIHEAP") recipients than the broader base of low-income customers?

Yes. As I stated in Rebuttal Testimony, LIHEAP is a subsidy for utility bill assistance A. 8 and not an energy efficiency measure to reduce consumption. LIHEAP is one strategy 9 designed to reduce the energy burden of low-income families and potentially buffer them 10 from the effects of energy insecurity by subsidizing their utility bill. DE agrees with 11 statements by Office of Public Counsel ("OPC") witness, Dr. Geoff Marke, that LIHEAP 12 encourages energy consumption.² Energy is a basic need. For individuals with chronic 13 medical conditions, energy is a necessity to refrigerate medications, run medical 14 equipment, or provide the heating or cooling temperature needed for health and comfort.³ 15 Energy insecurity occurs when one or all of the following are experienced:⁴ 1) limited or 16 uncertain access to energy, 2) receipt of utility termination notice, and 3) actual shut-off 17 of utility service. Families make trade-offs on which bills to pay such as rent, or they 18 forgo purchases like food, medical care, or medications. Families, who experience 19

¹ Missouri Public Service Commission Case No. ER-2016-0023, In the Matter of The Empire District Electric Company's Request for Authority to Implement a General Rate Increase for Electric Service, Rebuttal Testimony of W. Scott Keith on Behalf of The Empire District Electric Company, April 2016, page 12, lines 17-18.

² Missouri Public Service Commission Case No. ER-2016-0023, In the Matter of The Empire District Electric Company's Request for Authority to Implement a General Rate Increase for Electric Service, Rebuttal Testimony of Dr. Geoff Marke on Behalf of The Office of the Public Counsel, May 2, 2016, page 21, lines 4-8.

³ D. Hernandez, Y. Aralani, and Y. Jiang. *National Center for Children in Poverty*. Energy Insecurity Among Families with Children, January 2014.

⁴ E. March. Children's HealthWatch. Behind Closed Doors, The hidden health impacts of being behind on rent, January 2011.

energy insecurity, may also have experienced food insecurity or housing insecurity.
Children's HealthWatch, "*Behind Closed Doors*,"⁵ found that families, who are behind
on rent, experience the following more frequently: food and/or energy insecurity, receive
assistance through the Supplemental Nutrition Assistance Program and LIHEAP, make
trade-offs on household expenses in order to pay medical bills, have parents who have
forgone medical care for themselves or another family member, and have a mother with
symptoms of depression.

8 Q. Is there evidence that low-income households as a group consume less electricity
9 than LIHEAP recipients?

The LIHEAP Home Energy Notebook ("Notebook") for FY11 is the last Yes. 10 A. published version available. It includes national and regional data on four categories of 11 all households, non-low income households, low-income households, and users: 12 LIHEAP recipient households. Below is an abbreviated copy of Table A-2 from the 13 Notebook, which compares average consumption per household by end user and fuel 14 Midwest households across all categories consumed more electricity when 15 source. compared to all categories of US households. 16

⁵ Ibid.

Notebook Table A-2⁶: Residential energy: Average consumption in MMBtus per household, by all fuels and specified fuels, by all, non-low income, low income and LIHEAP recipient households, by Census region, FY 2011

nousenoias, by Census region, r 1 2011						
Census Region	Natural Gas	Electricity	Fuel Oil	Kerosene	LPG	Other
	(MMBtus)	(MMBtus)	(MMBtus)	(MMBtus)	(MMBtus)	(MMBtus)
US – All households	99.1	115.4	62.7	151.7	55.7	112.5
US – Non-low income	105.3	120.1	67.6	160.9	62.1	120.0
households						
US – Low income	87.5	105.5	54.4	137.7	54.5	98.4
households						
US – LIHEAP recipient	107.3	117.9	50.5	155.6	78.3	112.0
households	44. 					
Midwest – All	120.2	132.5	61.3	131.6	92.2	131.1
households						
Midwest - Non-low	126.0	137.0 Sector	67.5	139.2	NC	132.6
income households			1911 - 1917. Maria - 1917.			
Midwest – Low income	110.4	124.7	53.7	122.0	92.2	125.7
households			1991 - 1911 - 191			
Midwest – LIHEAP	124.0	136.6	50.5	153.5	90.0	107.7
recipient households						



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Low-income households, in the Midwest, consumed less electricity than all Midwestern

households combined – 124.7 MMBtus versus 132.5 MMBtus (Chart 1), while non-low

income households consumed more electricity than all other users - 137.0. The

electricity consumption of LIHEAP recipient households in the Midwest resembled that

⁶ U.S. Department of Health and Human Services Administration for Children and Families Office of Community Services Division of Energy Assistance, LIHEAP Home Energy Notebook For Fiscal Year 2011, June, 2014. Table A-2: LIHEAP defines low-income as those which are at or below 150 percent of the poverty guidelines and do not receive LIHEAP assistance.

of non-low income household consumption. Therefore, an increase in the customer
 charge is not expected to reduce energy consumption. It will, however, decrease the
 potential buffer effect LIHEAP offers in shielding vulnerable households from energy
 insecurity.

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IV. CLARIFICATION OF COMPANY'S WEATHERIZATION PROGRAM.

Q. Is the DE-administered Low-Income Weatherization Program ("LIWAP") the same as the Missouri Department of Social Services ("DSS")-administered LIHEAP?

A. No. During her argument for an evaluation of the Company's weatherization program,
 Missouri Public Service Commission Staff ("Staff") witness, Kory Boustead, states that:

... "the number of Low Income Heating Energy Assistance Program ("LIHEAP") applications has declined each year over the past four years. In other words the, program that was evaluated in 2009 is quite different from the program today..."⁷

DE would like to clarify that LIHEAP funds used for heating assistance is neither part of the Company's weatherization program nor LIWAP and thus cannot be used as justification to support an evaluation of either program. DSS-administered LIHEAP is comprised of two components: Energy Assistance/Regular Heating ("EA") and Energy Crisis Intervention Program ("ECIP"). EA provides financial assistance to eligible customers with their utility bills during the heating season. ECIP provides financial assistance to eligible customers who have a verifiable energy crisis⁸. Missouri recognized that LIHEAP was a short-term and not a long-term solution to energy conservation. Therefore, starting with the FY15 budget, the Missouri legislature began appropriating 10% or up to \$7M of LIHEAP funds from DSS to the DE-administered

⁷ Boustead, Rebuttal. Page 2, lines 14-16.

⁸ Missouri Department of Social Services. Low Income Home Energy Assistance Program. <u>http://dss.mo.gov/fsd/liheap.htm</u>

1	[LIWAP, ⁹ and these LIHEAP funds are one of four funding streams administered by DE.
2		Additionally, there is insufficient LIHEAP funding in relationship to need. While there
3		was a slight increase in LIHEAP funds for FY14, the trend has been an annual decrease
4		in funding – \$119M to $71.6M$ – between FY10 to FY14. ¹⁰ Eligibility, for LIHEAP
5		heating and crisis assistance in Missouri, is 135% or less of the federal poverty level
6		guidelines ("FPL"). A family of three at 135% FPL, with an average Empire utility bill
7		of \$142.01, ¹¹ has a 6.3% energy burden under Empire's current rates. As noted in my
8		rebuttal testimony, housing analysts consider energy burdens of 6% and greater to be
9		unaffordable.
10	Q.	Please clarify the per-home spending caps under US Department of Energy's
11		("DOE") LIWAP and under Empire's weatherization program.
11 12	А.	("DOE") LIWAP and under Empire's weatherization program. As Missouri Public Service Commission Staff ("Staff") witness, Ms. Boustead stated in
	A.	
12	А.	As Missouri Public Service Commission Staff ("Staff") witness, Ms. Boustead stated in
12 13	A.	As Missouri Public Service Commission Staff ("Staff") witness, Ms. Boustead stated in Rebuttal Testimony, the US Department of Energy ("DOE") changed the low-income
12 13 14	A.	As Missouri Public Service Commission Staff ("Staff") witness, Ms. Boustead stated in Rebuttal Testimony, the US Department of Energy ("DOE") changed the low-income eligibility limit for LIWAP from 150% to 200% of the FPL and raised the average cost
12 13 14 15	А.	As Missouri Public Service Commission Staff ("Staff") witness, Ms. Boustead stated in Rebuttal Testimony, the US Department of Energy ("DOE") changed the low-income eligibility limit for LIWAP from 150% to 200% of the FPL and raised the average cost per home limit from \$2,966 in FY09 to its current limit of \$7,105 average cost per home
12 13 14 15 16	A.	As Missouri Public Service Commission Staff ("Staff") witness, Ms. Boustead stated in Rebuttal Testimony, the US Department of Energy ("DOE") changed the low-income eligibility limit for LIWAP from 150% to 200% of the FPL and raised the average cost per home limit from \$2,966 in FY09 to its current limit of \$7,105 average cost per home as a result of the American Recovery and Reinvestment Act ("ARRA"). DE would like
12 13 14 15 16 17	Α.	As Missouri Public Service Commission Staff ("Staff") witness, Ms. Boustead stated in Rebuttal Testimony, the US Department of Energy ("DOE") changed the low-income eligibility limit for LIWAP from 150% to 200% of the FPL and raised the average cost per home limit from \$2,966 in FY09 to its current limit of \$7,105 average cost per home as a result of the American Recovery and Reinvestment Act ("ARRA"). DE would like to clarify that DOE did not reduce the average cost per home limit after ARRA funding

 ⁹ 98th General Assembly. Second Regular Session [Truly Agreed to and Finally Passed] Conference Committee Substitute for Senate Committee Substitute for House Committee Substitute for House Bill No. 2011 An Act. Section 11.160, page 10.
 ¹⁰ Heather Jones, presentation documents to Statewide Natural Gas Collaborative, December 2015.
 ¹¹ Missouri Public Service Commission Case No. ER-2016-0023, *In the Matter of The Empire District Electric Company's Request for Authority to Implement a General Rate Increase for Electric Service*, Direct Testimony of Martin R. Hyman on Behalf of The Division of Energy, April 8, 2016. 2016, page 22, Table 4a.

1	1	funds to supplement the Company's weatherization funds when weatherizing a home.
2		While the Company's weatherization program follows LIWAP guidelines, their contracts
3		with the CAAs state:
4		"The estimated average reimbursement for equipment, labor and materials for
5		installation of eligible energy efficiency measures to be funded by EDE is \$1,800
6		per home. The maximum expenditure per home is outlined in Empire's Low-
7		Income Weatherization tariff sheet 8c, filed with the Missouri Public Service
8		Commission ("MPSC"), and this tariff is subject to change with the approval of
9		the MPSC." ¹²
10		Tariff sheet 8c, which was provided to DE, with the Company's response to Data Request
11		406.1, does not list a "maximum expenditure per home" amount. It does, however, list a
12		"maximum expenditure per home" of administrative costs, which shall not exceed 15%
13		of the total expenditures for the home. DE recommends that either the CAA contracts or
14		tariff sheet 8c be updated for the purposes of clarity, consistency and transparency.
15	Q.	Does DE support OPC's position regarding an evaluation of the Company's
16		weatherization program?
17	А.	DE agrees with OPC witness Dr. Geoff Marke that a full evaluation of the cost-
18		effectiveness of Empire's weatherization program is not needed and is not a fiscally
19		prudent use of ratepayer funds. However, DE does see the need for an evaluation of
20		Empire's management and the CAA's administration of the Company's weatherization
21		program so that improvement opportunities can be noted and implemented with the goal
22		of moving towards full utilization of the Company's weatherization budget. The DE-

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¹² Company Response to Division of Energy Data Request 406.1, part 1.

administered LIWAP already undergoes regular evaluations and therefore, need not be included in any evaluation of the Company's weatherization program. Further, each efficiency measure installed in a DE-administered LIWAP home must pass a costeffective analysis, which is based on a savings to investment ratio. As part of my training with DE, I accompanied DE weatherization technical staff on monitoring visits to preand post-weatherized homes. During one visit, I observed a combustion gas analysis on a natural gas furnace. The combustion gas analysis is done to measure carbon monoxide and steady state of efficiency, which is then used to perform the cost-test analysis. In this particular home, the natural gas furnace failed to pass the cost-test analysis even though it was approximately 30 years old. Therefore, an upgrade to an energy star furnace could not be included in the weatherization measures being installed in the home.

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Q. Does this conclude your testimony?

13 A. Yes, thank you.