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**Issues:** 

Low Income Weatherization Assistance

Witness:

Sponsoring Party:

John Buchanan > Missouri Department of Economic

Development - Division of Energy

Type of Exhibit:

Direct Testimony

Case No.:

ER-2014-0258

#### MISSOURI PUBLIC SERVICE COMMISSION

#### UNION ELECTRIC COMPANY

d/b/a

AMEREN MISSOURI

CASE NO. ER-2014-0258

**DIRECT TESTIMONY** 

**OF** 

JOHN BUCHANAN

ON

BEHALF OF

# MISSOURI DEPARTMENT OF ECONOMIC DEVELOPMENT **DIVISION OF ENERGY**

Jefferson City, Missouri December 19, 2014

(Rate Design)

# BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Increase Its Revenues for Electric Service			ER-2014-0258	
	AFFIDAVIT OF JOHN A. BUCH	IAN.	AN	
ST	STATE OF MISSOURI ) ) ss			
C	COUNTY OF COLE )			
	John A. Buchanan, of lawful age, being duly sworn on his	oath,	deposes and states:	
1. My name is John A. Buchanan. I work in the City of Jefferson, Missouri, and I am employed				
	by the Missouri Department of Economic Development as	Seni	or Planner, Division of	
	Energy.			
2.	2. Attached hereto and made a part hereof for all purposes is my Direct Testimony on behalf of			
	the Missouri Department of Economic Development – Div	sion	of Energy.	
3.	3. I hereby swear and affirm that my answers contained in the	atta	ched testimony to the	
	questions therein propounded are true and correct to the beautiful description.	J.	my knowledge.  Bullon A. Buchanan	
Su	Subscribed and sworn to before me this 19th day of December,	2014	<b>!</b>	
	Kay	ĴĊ No	Manuattat 10HANNOCIU	
My	KAY A. JOHANNPETER Notary Public - Notary Seal STATE OF MISSOURI Cole County My Commission Expires: Aug. 4, 2015 Commission # 11551987		NOTARY  PUBLIC  PUBLIC  OF MISSINIA	

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#### I. INTRODUCTION

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- 2 Q. Please state your name and business address.
- A. John Buchanan, Missouri Department of Economic Development, Division of Energy, 301
   West High Street, Suite 720, Jefferson City, Missouri.
- 5 Q. What is the Division of Energy?
- 6 A. The Division of Energy ("DE") is a division of the Missouri Department of Economic 7 Development ("DED") and is the designated state energy office in Missouri responsible for 8 the administration of several federal programs and grants including the federal Low Income 9 Weatherization Assistance Program ("LIWAP"). The DE is also responsible for administering the federal State Energy Program ("SEP") established by the United States 10 Congress in 1978, which is managed nationally by the United States Department of Energy 11 12 ("USDOE"). The SEP consists of several statewide energy efficiency programs administered by the DE and funded by the USDOE. The DE is vested with the powers and duties set forth 13 in Section 640.150, RSMo. 14
  - Q. What is your position with the Missouri Division of Energy?
- 16 A. I am the Senior Planner in the DE's Energy Policy and Resources Program.
- 17 Q. On whose behalf are you testifying?
- 18 A. I am testifying on behalf of the DE, an intervenor in these proceedings.
- 19 Q. Please describe your educational background and business experience.
- A. I joined the Missouri Department of Natural Resources' ("DNR") DE in July of 1980 as
  director of the Missouri Residential Conservation Service Program, a congressionally
  mandated investor-owned electric and natural gas utility Demand Side Management

initiative. In 1986, I was promoted to serve as the Senior Planner within the Director's Office at the DE. In this capacity, I was involved in a variety of programs and projects addressing energy, environmental, and natural resource issues. In October 1995, I was appointed as a Senior Planner within the Policy and Planning Unit at the DE where my responsibilities include preparation of testimony filed in general rate or other cases by the DNR before the Missouri Public Service Commission ("Commission"), energy efficiency program design and development, energy emergency planning, energy supply and price monitoring and energy-related policy development. Governor Jay Nixon by Executive Order 13-03 transferred the DE from the DNR to the DED effective August 28, 2013. Prior to my employment with the DNR, I served as Special Assistant to the Mayor, City of Columbia, Missouri for two years. I have a Bachelor of Arts degree in Political Science from Columbia College. I am a former Fellow of Missouri University, where I received my Master of Science in Public Administration.

- Q. Are you currently working with Missouri utilities to implement energy efficiency initiatives?
- A. Yes. Since 1980 I have worked directly with investor-owned regulated electric and natural gas utilities on several energy efficiency initiatives including the federal Residential Conservation Service Program established by Congress. This was the first nationwide utility-sponsored non-low income residential energy efficiency program under the guidance of the USDOE. The DE is a charter member of several electric and natural gas energy efficiency collaboratives authorized by the Commission. I serve as the designated DE representative on the following utility efficiency collaboratives:

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1	1) Ameren Missouri ("Ameren" or "the Company");
2	2) Empire District Gas Company;
3	3) Laclede Gas Company;
4	4) Liberty Utilities (formerly Atmos Energy Corporation); and,
5	5) Missouri Gas Energy.
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7 8	II. PURPOSE AND SUMMARY OF TESTIMONY
9	Q. What is the purpose of your direct testimony in these proceedings?
10	A. The purpose of my direct testimony is to address the biennial evaluation of the Ameren
11	weatherization program authorized by the Commission in ER-2007-0002 <sup>1</sup> , ER-2011-0028 <sup>2</sup>
12	and Case No. ER-2012-0166 <sup>3</sup> . I will specifically offer testimony regarding:
13	(1) The need to discontinue biennial evaluations following the "second" evaluation of the
14	Ameren Missouri weatherization program scheduled for completion on July 31, 2015;
15	and,
16	(2) Requested changes to Ameren's tariff.
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<sup>1</sup> Missouri Public Service Commission Case No. ER-2007-0002, In the Matter of Union Electric Company d/b/a/ AmerenUE's Tariffs Increasing Rates for Electric Service Provided to Customers in the Company's Missouri Service Area, Report and Order, June 1, 2007, page 112 – 113.

<sup>&</sup>lt;sup>2</sup> Missouri Public Service Commission Case No. ER-2011-0028, In the Matter of the Tariff Filings of Union Electric Company, d/b/a Ameren Missouri, to Increase Its Revenues for Retail Electric Service, Nonunanimous Stipulation and Agreement Regarding Low Income Weatherization Evaluation, May 18, 2011, page 1-2.

<sup>&</sup>lt;sup>3</sup> Missouri Public Service Commission Case No. ER-2012-0166, *In the Matter of Union Electric Company, d/b/a Ameren Missouri's Tariff to Increase Its Annual Revenues for Electric Service,* Nonunanimous Stipulation and Agreement Regarding Low Income Weatherization Program, October 15, 2012, page 1 – 3.

(5) Authorize recommended changes to Ameren's tariff.

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#### IV. FEDERAL LOW INCOME WEATHERIZATION ASSISTANCE PROGRAM

Q. Please describe the federal Low Income Weatherization Assistance Program.

A. In response to the energy crisis of the early 1970s, Congress established the federal Low-Income Weatherization Assistance Program ("LIWAP" or "Weatherization"). As Missouri's state energy office, the DE administers the federal program. The Weatherization program provides cost-effective energy-efficient home improvements to Missouri's low income households, especially the elderly, children, those with physical disadvantages, and others hit hardest by high utility costs. The program aims to lower utility bills and improve comfort while ensuring health and safety. Today, Weatherization is the nation's largest residential energy efficiency program. Since its inception in 1977, over 180,000 Missouri homes have been weatherized through the LIWAP. The Weatherization program utilizes a "whole house retrofit" approach to building Participating houses undergo a thorough energy audit for leaks and improvement. substandard or malfunctioning equipment (such as heaters), followed by repairs and equipment replacement conducted by trained Weatherization professionals. After repairs are complete, a second home audit is performed to verify that retrofits were installed properly. Work on eligible homes is performed by 19 subgrantees, which consist of Community Action Agencies or local non-profit agencies situated to serve every region of Missouri. DE administers the grant from USDOE and liaisons with the USDOE for receipt, processing and administration of the federal grant funds. DE processes all required reporting and responds to federal and state auditors. DE also administers the subgrant process by which funds are provided to the local agency subgrantees by obtaining budgets, allocating funds and drafting

subgrant documents for execution by DE and each agency. Once subgrants are executed, DE provides technical and fiscal training, technical monitoring (desk reviews and field inspections) and fiscal oversight (desk and on-site review of agency processes and program compliance) of the subgrantees.

# Q. What are the current sources of funding to weatherize homes of low-income residents of Missouri?

A. Funding comes primarily from two sources<sup>4</sup>, the federal government and four Missouri utilities. Funding from federal sources is part of the DE's allocation from the USDOE, under a formula allocation based on population, local climatic conditions, and the cost of heating and cooling for low-income residences.<sup>5</sup>

The second source of funding is from Missouri investor-owned electric and natural gas utilities. DE administers utility weatherization funds approved by the Commission in various cases for four utilities (Ameren Missouri - electric and gas, Laclede Gas Company and Liberty Gas). DE administers the utility weatherization funds consistent with the guidelines of the federal USDOE Weatherization program. Regardless of source, funds are passed through the DE to the various subgrantees to provide vital weatherization services, under federal administrative guidelines, throughout the state. Utility weatherization funds are used to improve the energy efficiency and health and safety of homes of eligible utility customers

Q. Are there weatherization utility fund sources that are not administered by the DE?

in their respective service territories.

<sup>&</sup>lt;sup>4</sup> Low Income Heating Energy Assistance Program (LIHEAP) funds have been used in the past and will be used in the 2014/2015 LIWAP program year to weatherize homes, but have not been available on an annual basis. LIHEAP funds will not be addressed in testimony.

<sup>&</sup>lt;sup>5</sup> See http://www1.eere.energy.gov/wip/wap allocation.html

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A. Yes. The Commission has authorized weatherization programs for Empire District Electric 1 2 Company, Missouri Gas Energy, Kansas City Power & Light Company, including Kansas 3 City Power & Light Company's Greater Missouri Operations Company. These utilities operate their weatherization program independent of Missouri's LIWAP. 4 O. How has DE managed its costs for Weatherization program administration, monitoring 5 6 and technical assistance? 7 A. The DE currently uses federal Weatherization funds to pay for LIWAP and utility fund 8 source program administration, monitoring and technical assistance associated with 9 managing the utility weatherization funds. DE conducts desk monitoring and onsite technical and administrative monitoring for all weatherization grants. 10 Q. How has DE administered utility weatherization funds? 11 12 DE has administered all utility weatherization funds in conjunction with the federal Weatherization program and subject to USDOE administrative and financial guidelines. All 13 utility weatherization funds have been provided directly to local agencies through subgrant 14 15 agreements. Q. Does Ameren's annual weatherization payment of \$1.2 million include an allocation for 16 DE's administrative, T&TA costs or program evaluations? 17 A. No, however, \$60,000 is withheld by Ameren each year from the \$1.2 million for Ameren to 18 hire an evaluation contractor. 19

## V. <u>AMEREN MISSOURI'S WEATHERIZATION PROGRAM</u>

- Q. Please describe Ameren Missouri's Weatherization Cooperation and Funding

  Agreement.
- A. On August 14, 2007 Ameren Missouri, the Missouri Department of Natural Resources (now the DE), and Missouri Public Service Commission entered into an agreement to fund Weatherization activities in Ameren's service territory in Case No. ER-2007-0002. This agreement provided \$1.2 million annually, to be deposited in an account maintained by Environmental Improvement and Energy Resources Authority (EIERA). It is DE's responsibility to allocate these funds to the 13 Weatherization agencies operating in Ameren's service territory. This agreement has been amended several times; most recently to provide funds for a biennial program evaluation agreed to in Case No. ER-2011-0028 and Case No. ER-2012-0166, but the annual amount of Ameren's contribution has not changed since the inception of the program.
  - Q. Does Ameren, in any way, co-administer the weatherization program?
- A. No. Ameren provides a one-time annual payment to the EIERA and receives quarterly updates from the DE on program expenditures and weatherization services completed.
  - Q. Does Ameren co-administer the weatherization program with agencies that provide weatherization services in their service territory?
- 20 A. No.

#### VI. AMEREN MISSOURI'S BIENNIAL WEATHERIZATION EVALUATION

#### Q. Have prior Ameren weatherization program evaluations been completed?

A. Yes. In December 2009, Applied Public Policy Research Institute for Study and Evaluation completed an evaluation of the Ameren Low-Income Weatherization Program as authorized by Case No. ER-2007-0002. In July 2012, the Cadmus Group, Inc. completed a similar evaluation as authorized by Case No. ER-2011-0028.

#### Q. Has Ameren withheld funds to support these evaluations?

A. Yes. Ameren has withheld \$360,000, to date, to hire contractors to complete these evaluation projects or the equivalent of approximately 180 homes that would have received weatherization services (at an average cost of \$2,000/unit<sup>6</sup>). The diversion of these funds to complete these program evaluations results in the need to spend a higher level of federal funds or other local funds to complete weatherization services for Ameren's low income customers.

#### Q. When is the next biennial Ameren weatherization evaluation scheduled for completion?

A. The evaluation must be completed no later than July 31, 2015. As of the December 10, 2014 meeting of the Ameren Energy Efficiency Collaborative ("EEAC") regarding this evaluation, Ameren will select a contractor and initiate a formal agreement after January 1, 2015.

### Q. Are these biennial weatherization evaluations subject to a sunset provision?

A. No. These biennial evaluations, and associated \$60,000 per year of customer-provided fund withholdings, may continue indefinitely.

<sup>&</sup>lt;sup>6</sup> The average amount of Ameren weatherization funds combined with other fund sources, including federal LIWAP, used to complete weatherization services to a low-income customer's home served by Ameren. The total average weatherization investment to a low-income customer's home served by Ameren is approximately \$6,000.

- Q. What were the findings of the December 2009 Applied Public Policy Research Institute for Study and Evaluation weatherization evaluation report authorized in Case No. ER-2007-0002?
- A. The report noted the program "benefited them (low income customers) by reducing their bills, improving the safety and comfort of their home, lowering their energy use, and improving energy education."

#### 7 Q. Did the evaluation report contain recommendations?

- A. The report included 14 recommendations under 4 categories: 1) Program Management,

  Administration and Procedures; 2) Agency Weatherization Staff Training; 3) Program

  Impact; and, 4) Satisfaction.
  - Q. Were any of the report recommendations formally adopted?
- 12 A. For the most part, no.

#### Q. Please explain.

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21 22 A. The report included recommendations to continue certain activities such as on-going training and technical support, continuation of health and safety measures, and to maintain joint program implementation through DE. These recommendations did not require formal adoption. The report, however, reflected certain recommendations that were not addressed in an EEAC meeting and, consequently, were never fully implemented. For example, the report recommended that:

Ameren could provide a program information sheet for agencies to distribute during the energy audit with energy efficiency tips and Ameren's logo.<sup>8</sup>

<sup>&</sup>lt;sup>7</sup> Ameren Low-Income Weatherization Program Final Evaluation Report, Applied Public Policy Research Institute for Study and Evaluation, December 2009, page E12.

<sup>8</sup> *Ibid.*, page E14.

1 Such material is not being distributed by weatherization agencies. 2 3 Also, the report reflected the recommendation, 4 Revise the rules for expenditure of Ameren program funds so that electric usage reduction measures are allowed and emphasized. 5 6 7 This recommendation was not formally addressed by the EEAC. 8 DE administers the Ameren weatherization funds in accordance with USDOE rules and regulations. All weatherization funding administered through DE follows USDOE guidance 9 10 which helps in the ease of program administration. Q. What were the findings of the July 2012 Cadmus Group, Inc. weatherization program 11 evaluation report authorized in Case No. ER-2011-0028? 12 A. The study found weatherization saves energy. According to the report, 13 This analysis revealed that, on average, program participants decreased their annual 14 energy consumption by 1,877 kWh. This represents approximately 12% savings over 15 their pre-program annual electricity consumption. 10 Further, the program proved cost-16 effective from the total resource cost (TRC) test and the Utility Cost Test (UCT) 17 perspectives ...<sup>11</sup> 18 19 20 Weatherization assistance is not required to be cost-effective through traditional TRC. UCT 21 22 or other benefit/cost analysis. Weatherization assistance provides other benefits such as health, safety, comfort and education. 23 24 Q. Did the evaluation report contain recommendations? A. The report included 7 recommendations. 25 Q. Were any of the report recommendations formally adopted? 26 27 A. Again, for the most part, no. <sup>9</sup> *Ibid*, page E13. <sup>10</sup> Residential Low Income Weatherization Program Evaluation, The Cadmus Group, Inc., July 2012, page 3.

#### Q. Please explain.

A. The report reflected certain recommendations that were not addressed by the EEAC and, consequently, were never fully implemented. For example, the report recommended "Increase Ameren Missouri sponsorship awareness through leave-behind materials." Another report recommendation, "Collaboratively assess the potential addition of new electric measures." These recommendations were not formally addressed by the EEAC. DE administers the Ameren weatherization funds in accordance with USDOE rules and regulations. All weatherization funding administered through DE follows USDOE guidance which helps in the ease of program administration.

# Q. Do you have concerns regarding future and on-going biennial Ameren weatherization evaluations?

A. Yes, there are aspects of this evaluation process that raises concern:

- Funds to support the evaluation process are drawn from funds originally targeted for weatherization services. This means that the biennial evaluation is completed at the expense of low-income customers served by Ameren. The \$360,000 withheld to date for the biennial evaluations represents approximately 180 low income households that may have otherwise received Ameren funded weatherization services.
- There is no sunset provision. This biennial weatherization evaluation can be performed into perpetuity.
- Prior evaluation recommendations have not been discussed by the EEAC nor implemented. In the absence of formally adopted program recommendations and

<sup>12</sup> Ibid, page 5.

<sup>13</sup> Ibid, page 5.

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without adequate time for such recommendations to operate within a period of 2 years or less between biennial evaluations, the usefulness of subsequent evaluations is questionable.

This biennial evaluation addresses one of only four utility funded weatherization programs administered by the DE. In fact, the focus of this evaluation process is not on Ameren's weatherization program but the federal Weatherization program administered within the Ameren service territory.

### Q. Is there a specific revision to Ameren's current tariff sheet 175 that you request?

A. Yes. In the section titled, "ENERGY EFFICIENCY AND DEMAND SIDE MANAGEMENT PROGRAMS", subsection titled "WEATHERIZATION PROGRAM", there is a reference to the Department of Natural Resources within paragraph 1. and paragraph 4. I request be changed to read "Department of Economic Development – Division of Energy." The Division of Energy was formerly a part of the Department of Natural Resources, but was transferred to the Department of Economic Development (DED) on August 29, 2013 by Executive Order 13-03. The Executive Order transfers "all authority, powers, duties, functions, records, personnel, property, contracts, budgets, matters pending, and other pertinent vestiges of the Division of Energy from the Missouri Department of Natural Resources to the Missouri Department of Economic Development...." The Division of Energy is a charter member of the EEAC and continues in that role after the transfer.

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#### Q. Please summarize your testimony.

- Significant strides have been made by investor-owned electric utilities, including
  Ameren, to successfully implement cost-effective energy efficiency programs in
  Missouri. These investments should continue to be strongly supported at adequate
  levels to ensure their on-going success. The DE respectfully recommends, therefore,
  that the Commission address and authorize the following:
- Order the discontinuation of future evaluations of the Ameren weatherization program following the scheduled completion of the July 31, 2015 "second evaluation" identified in the Nonunanimous Stipulation and Agreement Regarding Ameren Missouri's Low Income Weatherization Program from Case No. ER-2012-0166;
- Require Ameren to discontinue withholding \$60,000 from the \$1.2 million that it receives annually from ratepayers to hire an Evaluation, Measurement and Verification (EM&V) contractor for future evaluations;
- Require Ameren to return any withheld funds that are in excess of amounts needed to support evaluation contractor expense to be used to provide low income weatherization services;
- Authorize the removal of paragraph 5. within Ameren's current tariff sheet 175 in the section titled, "ENERGY EFFICIENCY AND DEMAND SIDE MANAGEMENT PROGRAMS", subsection titled "WEATHERIZATION PROGRAM" referencing the weatherization evaluation; and,
- Authorize recommended changes to Ameren's tariff.

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- 1 Q. Does this conclude your testimony?
- 2 A. Yes. Thank you.