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BEFORE THE STATE CORPORATION COMMISSION

OF THE STATE OF KANSAS

DIRECT TESTIMONY

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WESTAR ENERGY

by State Corporation Commission of Kansas

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1		I. INTRODUCTION
2	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	Α.	James Ludwig, 100 N. Broadway St., Suite 800, Wichita, Kansas.
4	Q.	BY WHOM AND IN WHAT CAPACITY ARE YOU EMPLOYED?
5	Α.	Westar Energy, Inc. (Westar). I am Executive Vice President,
6		Public Affairs and Consumer Services.
7	Q.	PLEASE DESCRIBE YOUR ELECTRIC UTILITY EXPERIENCE
8		AND YOUR EDUCATION.
9	Α.	I started at Westar in June 1989 as an Information Specialist. Later
10		that year, I was appointed Director, Government Affairs and served
11		in that capacity until mid-1995. From then until I resigned from
12		Westar in October 2001, I was Senior Director, Regulatory Affairs.
13		I returned to Westar at the beginning of 2003 as Vice President,

Public Affairs. In March 2006, I became Vice President, Regulatory
 and Public Affairs and served in that role until I assumed my current
 position in July 2007. I graduated summa cum laude from the
 University of Kansas in 1980 with two Bachelor of Arts degrees,
 one in classical languages and another in history.

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II. SUMMARY OF TESTIMONY

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. I discuss Westar's energy efficiency and smart grid initiatives. I also discuss the costs associated with our SmartStar program.

10 Our energy efficiency programs help customers get more 11 value out of their energy expenditures. Faced with the hard fact 12 that electric rates are increasing, primarily because of costs to 13 comply with federal and state policy mandates, it is important to 14 provide customers ways to make choices to control their energy 15 Customers who participate in our energy efficiency and costs. 16 demand response programs can more effectively manage their 17 energy costs and efficiently allocate their resources. Their 18 participation also benefits customers at large. Customers need not 19 sacrifice comfort and convenience by participating in our energy 20 efficiency programs. Although we expect their rates will still go up, 21 how much their total *bills* go up depends on how much energy they 22 choose to use. In many cases they can mitigate the effects of price 23 increases on their total energy budgets.

SmartStar Lawrence is Westar's initial deployment of what is 1 Besides installing 2 commonly referred to as the smart grid. advanced metering infrastructure (AMI) in Lawrence, the project 3 also includes significant IT infrastructure upgrades, online energy 4 5 dashboard information for customers, advanced distribution equipment and a new outage management system. While the 6 advanced meters and distribution equipment are specific to 7 8 Lawrence, the rest of the project provides benefit to customers system-wide. The estimated cost of the project to Westar is about 9 \$21 million, about half of the \$42 million total. Westar negotiated a 10 11 grant to pay approximately half the cost through the Smart Grid 12 Investment Grant portion of the American Recovery and Reinvestment Act of 2009 (ARRA). The three-year initiative in 13 14 Lawrence will help us determine if further deployment throughout our service territory will result in enough benefits to justify the cost 15 of deploying it more broadly. 16

> III. DESCRIPTION OF WESTAR'S ENERGY EFFICIENCY, CONSERVATION AND DSM INITIATIVES

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19Q.PLEASE GIVE A BRIEF DESCRIPTION OF WESTAR'S ENERGY20EFFICIENCY DEPARTMENT.

A. Westar formed its Energy Efficiency Department in 2007. The
Energy Efficiency Department has 14 employees and three areas
of emphasis: consumer services, demand side management (DSM)
and trade and ally partnerships.

1 Q. WHAT IS WESTAR'S BASIC PHILOSOPHY REGARDING 2 ENERGY EFFICIENCY EDUCATION AND PROGRAMS?

3 Α. Comfort, convenience, connection - these are the elements we provide to our customers through the safe, reliable delivery of 4 Electricity powers our customers' way of life, from 5 electricity. keeping their food refrigerated and their homes cool in the summer 6 7 to facilitating Facebook exchanges and family movie nights. The demand for electricity continues to increase as new products from 8 9 e-readers to electric cars enter the marketplace. Innovative technologies proliferate at an unprecedented pace. To help 10 11 manage demand, we have developed several educational and 12 energy efficiency and demand response programs to help 13 consumers use energy wisely. Collaboration and cooperation will help postpone the need for additional power plants and help 14 15 preserve the environment. By providing customers with tips and 16 tools to initiate behavior changes, we can establish a strong 17 foundation for additional energy efficiency and demand side 18 management programs.

Although most of us have a pretty accurate sense of how long a foot is or about how much water is in a cup, relatively few have a good sense of what a kilowatt-hour (kWh) is, or what distinguishes a kilowatt (kW) from a kWh. Hence, one area of emphasis we are focusing on in 2011 with our messaging is the

1 value that customers receive for the electricity they use to make 2 their lives run more smoothly. The production and delivery of safe, 3 reliable electricity is at the heart of everything we do at Westar. As electric consumers ourselves, we know how important electricity is 4 5 to our quality of life and also how easy it is to take for granted the seeming magic of flipping on a switch and having light, hot coffee, 6 7 or an Internet connection whenever they are desired. Customers who buy and experience tangible products often do not consider 8 9 that their purchases of appliances, smart phones, and 10 entertainment devices increase demand for electricity. When blowing their hair dry in the morning or watching a basketball game 11 12 or checking email at night, most do not consider that those routine 13 actions are backed by an expansive and intricate 24/7 infrastructure 14 of power plants, wind farms and service centers supported by a 15 cadre of other professionals doing whatever it takes to keep their 16 lights on.

Our goal is to use common applications and plain language in a variety of venues to explain that at approximately 10 cents a kWh for residential customers, electricity is a bargain. For example, most customers understandably expect to pay more than 32 cents for a pack of gum or a bottle of water that will provide fleeting satisfaction, yet many do not realize that the same 32 cents can do all of the following: operate their garage door opener for a

month, light three rooms in their home for 10 hours, or wash a load
of laundry. As the demand for safe, reliable electricity continues to
climb, reinforcing both the value of electricity and the relevance of
using it wisely will be at the forefront of our energy efficiency
educational efforts.

Q. BY WHAT CRITERIA DOES WESTAR CONSIDER AND JUDGE
 7 ENERGY EFFICIENCY AND DEMAND RESPONSE
 8 PROGRAMS?

9 Α. We have developed a set of cost-benefit tests based on what has 10 become an industry best practice, using the California Standard 11 Analysis of Demand-Side Programs and Projects, July 2002. 12 Several public utility commissions across the country use this 13 analysis or a similar variation of it to evaluate demand-side 14 management programs. Although purely educational programs do 15 not lend themselves to this analysis, we have submitted our 16 demand response programs to these tests. Likewise, KCC Staff 17 has used the analysis to advise the Commission as to the merits of 18 programs we have proposed for approval. The analysis includes 19 five cost-effectiveness tests applied to each program. In its order in 20 Docket 08-GIMX-442-GIV, the Commission has outlined how it 21 intends to consider the cost-effectiveness tests in deciding whether 22 to approve programs.

- 1Q.DOES WESTAR HAVE ANY ENERGY EFFICIENCY OR DSM2PROGRAMS THAT HAVE BEEN APPROVED BY THE3COMMISSION?
- 4 A. Yes.

5 Q. WHAT ARE THE PROGRAMS?

- 6 A. The programs are:
- 7 1. WattSaver (Docket No. 09-WSEE-636-TAR) a
 8 programmable thermostat/direct load control program;
- Building Operator Certification (Docket No. 09-WSEE-738 MIS) an educational series for facility managers;
- SimpleSavings (Docket No. 10-WSEE-775-TAR) a
 program that enables qualified customers to repay approved
 energy efficiency upgrades to homes and small businesses
 on their Westar bill;
- Energy Efficiency Education (Docket No. 09-WSEE-986 ACT) an array of consumer venues for distributing energy
 efficiency information to influence behavior change; and
- 185.Energy Efficiency Demand Response (EE DR) Program19(Docket No. 10-WSEE-141-TAR a program for large20energy users able to reduce their electrical load very quickly21that entices them to do so when conditions on our system22warrant it (i.e., "load shedding").

1 Q. CAN YOU PROVIDE THE COMMISSION WITH A DESCRIPTION

OF EACH PROGRAM?

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A. Yes. A description of each of the programs is set forth in Exhibit
JL-1, which is attached to my testimony.

5 Q. DOES WESTAR HAVE ANY OTHER ENERGY EFFICIENCY 6 PROGRAMS PENDING BEFORE THE COMMISSION?

- A. Not at this time, however, we are evaluating an appliance recycling
 program. This tentative initiative is also described in Exhibit JL-1.
- 9 Q. DOES WESTAR HAVE PROGRAMS OR POLICIES IN PLACE

10 TO "LEAD BY EXAMPLE" FOR ENERGY EFFICIENCY?

A. Yes. Westar's policies and programs of an exemplary nature are
also described in Exhibit JL-1.

13IV.DISCUSSION OF WESTAR'S LONGER-STANDING EFFORTS IN14THE AREA OF ENERGY EFFICIENCY AND CONSERVATION

- 15 Q. WHAT HAS WESTAR HISTORICALLY DONE TO ENCOURAGE
- 16 ITS CUSTOMERS TO USE ENERGY EFFICIENTLY?
- 17 Α. Westar, Staff and CURB have worked to design tariffs that send the 18 right price signals to customers to encourage them to use energy 19 efficiently. Westar has accomplished this primarily through the use 20 of summer/winter pricing differences. The summer residential rate 21 is higher than the winter rate, signaling seasonal production cost 22 differences, thereby encouraging energy conservation during those 23 months when demand for electricity and the cost of production is 24 highest. The non-residential rate schedules have seasonally

differentiated prices but also use demand ratchets to encourage offpeak usage and provide an incentive to avoid establishing high
peak demands in the summer period, thereby creating an incentive
to utilize existing assets and allocate economic resources more
efficiently. Pricing of the overall cost of energy designed to
encourage the wise use of energy can be found throughout
Westar's tariffs.

8 Q. DOES WESTAR HAVE AN INTERRUPTIBLE SERVICE 9 PROGRAM THAT ALLOWS CUSTOMERS TO ACCEPT 10 INTERRUPTIONS IN THEIR SERVICE IN EXCHANGE FOR 11 LOWER PRICES?

12 A. Yes.

13 Q. HOW DOES THE PROGRAM WORK?

Westar has an active interruptible program with 83 customers 14 Α. 15 participating, which allows us to partner with them to allocate resources more efficiently with the flexibility of "trading" cost for the 16 degree of "firmness" of service. Westar called on our interruptible 17 18 customers three days in the summer of 2010 during peak 19 conditions, thereby reducing demand on our system when the 20 incremental costs are highest. In exchange, they, of course, pay 21 less for helping us manage demand on our system. Peak reduction 22 during the hours of interruption on those days ranged from 105 megawatts (MW) to 155 MW; akin to about one typical peaking 23

1generation unit.Westar has called on our interruptible customers2once so far in 2011, due to system peaking conditions.These3reductions are in addition to the 95 MW available through the4demand response program discussed in Exhibit JL-1.Another5component of this long-standing interruptible service program is an6option to call on cogeneration units of two industrial retail7customers during peak periods.

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SMARTSTAR PROJECT

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A. Description of the SmartStar Project

10 Q. PLEASE DESCRIBE SMARTSTAR LAWRENCE.

V.

A. In August 2009, Westar filed an application for an American
Reinvestment and Recovery Act funding grant for the SmartStar
Lawrence project. It is projected to cost approximately \$42 million,
but due to our having secured a matching grant from the U.S.
Department of Energy (DOE), the net cost to our system is about
half that.

17 The objective of SmartStar Lawrence is to confirm the 18 benefits of a smart grid for customers and Westar prior to a larger 19 deployment. Westar will validate business case assumptions, 20 determine customer preferences and acceptance, identify the best 21 communication strategies, and establish new business processes. 22 The intent is to provide data from real world application of the 23 technology and to help determine best business processes before 24 we make larger investments.

Westar believes the project will provide invaluable experience in operating a smart grid environment and integrating other initiatives such as renewable energy, energy efficiency technologies and demand management. This macro approach to the electric system will ultimately be what makes the system "intelligent" and able to meet the general vision of the smart grid.

7 The project will result in the installation and integration of the 8 information technology infrastructure required for system-wide 9 smart grid implementation. Once in place, this infrastructure will 10 position Westar for a much simpler, less expensive and more 11 efficient expansion, should the benefits of extending the program 12 exceed its costs.

13 Q. HOW MANY CUSTOMERS WILL BE INVOLVED IN THE 14 SMARTSTAR PROJECT?

15 Α. All customers in Lawrence consisting of approximately 46,000 16 meter locations and a population of more than 90,000 people will 17 be involved in the project. The project is approved for a total of 18 48,000 meters and we will look at expanding to contiguous rural 19 areas once the City of Lawrence is complete. With a very 20 customer-centric approach, Westar intends to use the project to 21 test several new customer service options. Customer feedback will 22 be used extensively to refine and improve service offerings, and 23 that feedback will be collected via multiple communication

channels. Westar views the SmartStar Lawrence project as a
 significant step toward ensuring our ability to meet customer
 expectations in the future.

4 Q. PLEASE DESCRIBE THE METER TECHNOLOGY FOR 5 SMARTSTAR.

6 Α. All customers in Lawrence will receive the next generation of 7 metering known as Advanced Metering Infrastructure (AMI), a 8 foundation block to building the intelligent smart grid network. AMI 9 supports the primary customer-facing portion of the smart grid and 10 completes the energy pathway of generation to transmission to 11 distribution to customer. The smart grid is an advanced two-way 12 communication environment with the ability to deliver many benefits 13 to both the customer and company. While advanced technology is 14 obviously required, the smart grid is ultimately about information 15 that can help Westar and our customers manage energy delivery 16 and consumption better.

17Q.PLEASE DESCRIBE IN GENERAL TERMS THE OVERALL18CUSTOMER RESPONSE TO SMARTSTAR TO THIS POINT.

A. Statistically valid survey information obtained in January 2011 from
customers in Lawrence shows that approximately 64% are either
positive or very positive about the SmartStar project. Another 26%
indicated a neutral position, which more detailed analysis shows is
a result of not having enough information yet to have a firm opinion.

1 About 10% indicated a negative opinion of the project. This is a 2 much lower figure than we have seen utilities experience elsewhere, in large part, we believe, because of the extensive 3 educational efforts we undertook and the transparency with which 4 5 we have discussed the program. Additionally, customers who were 6 aware of the project indicated a belief that SmartStar would help 7 them monitor their electricity usage and would help them identify 8 ways to conserve.

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B. Current Status of SmartStar Project

10Q.WHAT IS THE STATUS OF THE SMARTSTAR LAWRENCE11PROJECT?

12 Α. In January 2011, a total of 1387 residential and commercial meters 13 were exchanged in the Deerfield Subdivision area of Lawrence. 14 This deployment was intended to confirm interoperability with the 15 communication and IT infrastructure. These exchanges took place 16 following extensive communication with the neighborhood through 17 local open houses and a series of direct mail pieces. In May, 18 Westar launched the online SmartStar energy dashboard to 19 approximately 1200 residential customers in this neighborhood.

In addition to the Deerfield neighborhood, Westar has been
 systematically exchanging transformer rated meters with AMI
 meters for the past few months. These meters are primarily located
 at business locations and require Westar personnel for exchange.

As of August 19, approximately 850 of the total of 1050 of this type
 of meter have been exchanged.

3 Q. WHAT HAS THE RESPONSE TO THE DASHBOARD BEEN SO 4 FAR?

Α. 5 As of August 19, 2011, we have had 335 first time visitors to the 6 dashboard representing about 28% of the customers who currently 7 have the capability to use the dashboard. About 10% of those 8 visitors have signed up for an alert or summary report feature. 9 These numbers continue to grow every day. We will continue to 10 actively market utilization and the alert features as we go forward 11 with the project. We think an opportunity to regularly connect with 12 over 25% of our customers on their energy use is good. However, 13 we are confident that with further deployment and communication 14 that percentage will increase. Response to date from customers 15 using the dashboard has been very positive.

16Q.WHEN DO YOU EXPECT TO BE FINISHED INSTALLING ALL17THE NEW SMART METERS IN LAWRENCE?

A. Westar currently anticipates the city wide exchange to begin this
fall and expects the majority of the meter exchanges to be
completed by the end of 2011. There may be some exceptions for
hard to reach locations, or those that need other work completed
prior to meter exchange.

23 Q. PLEASE DESCRIBE THE METER EXCHANGE PROCESS.

A. Westar or our authorized representative, Honeywell, will exchange
 the meters. Both Westar and Honeywell vehicles are clearly
 identified, as are the installers who will have ID badges and clearly
 marked shirts.

5 At the time of the meter exchange we will knock on a customer door prior to beginning work. We will also leave a door 6 7 hanger with information on the SmartStar program, including how to 8 access the new energy dashboard. Meter exchanges will take place 9 during daylight hours, Monday through Saturday. The exchange itself is simple and quick, generally taking only a few minutes. A 10 11 safety check of the meter box and connections will also be 12 completed at the time of the exchange. Some customers may need 13 to reset clocks and/or may prefer to turn off some equipment with 14 the meter exchange process. Special arrangements will be made 15 for those customers on life support or with other sensitive medical 16 equipment in their home.

Q. WHAT ARE THE TOTAL PROJECT EXPENDITURES TO DATE?

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A. As of July 31, 2011, total project expenditures, not including reimbursement credit, have been \$1,908,302 for O&M and \$22,919,358 for capital, for a total combined expenditure of \$24,827,660. These expenditures represent 2010 and 2011 costs to date. Total 2010 and 2011 budgeted project expenditures, not including credit, for the period ending December 31, 2011, are

1		\$39,023,820 representing \$3,622,159 for O & M and \$35,401,661
2		for capital. Additional expenditures on the project in 2012 are
3		expected to bring the project totals to about \$42 million.
4		Westar will provide the actual year ending December 31,
5		2011 expenditures to the Commission and its Staff.
6	Q.	HOW MUCH COST REIMBURSEMENT HAS BEEN RECEIVED
7		FROM THE DOE TO DATE?
8	Α.	As of July 31, 2011 Westar has received a total of \$11,013,538 in
9		reimbursement. This reimbursement represents \$682,124 in O & M
10		and \$10,331,414 in capital. Total reimbursement from the DOE of
11		the estimated \$42 million project costs will be \$19,041,565.
12		C. Customer Communication and Benefits
13	Q.	HAS WESTAR BEGUN EDUCATING CUSTOMERS ABOUT THE
14		SMARTSTAR PROJECT?
15	A.	Yes. Westar understands that for the SmartStar project to be
16		successful customers must understand the benefits and tools that
17		will be enabled by the project. Beginning with the initial application
18		for the Smart Grid Investment Grant funding in 2009, Westar
19		undertook a community marketing approach making ourselves and
20		project information available at numerous community events, City
21		and County public meetings, key community organizational
22		meetings and have actively kept local media informed of the
23		progress of the project.

1 Our survey information, when compared to earlier survey 2 results and national surveys, indicates that if a customer has an understanding of the energy use information that SmartStar will 3 4 provide, the customer usually has a substantially positive opinion of 5 the project. Westar has been regularly attending community events and giving presentations to educate consumers about SmartStar. A 6 7 SmartStar Lawrence project web page was introduced in November 8 2010 (www.westarenergy.com/ smartstar) that provides project 9 details and is updated with new information as the project 10 progresses. Common customer questions are also addressed via 11 the blog on this website and it provides a place for customers to 12 provide feedback and/or ask questions to Westar. We have also 13 set up a dedicated toll free phone number 855-StarOne (855-782-14 7663), which is directed to specially trained customer service 15 representatives in our Customer Relations Center to respond to 16 customer questions. A paid media education campaign was also 17 undertaken in 2011 to reach a broad based customer audience. 18 Westar also is utilizing social media communication channels, 19 taking advantage of these popular media to reach certain customer 20 segments.

21 Q. HOW DO YOU KNOW IF THE CUSTOMER EDUCATION 22 EFFORT IS EFFECTIVE?

Westar has included a comprehensive customer survey approach 1 Α. 2 in the project in order to gauge customer understanding and perceptions. These have included ongoing online, focus group, 3 and in-person surveys to measure the effectiveness of our 4 5 communication efforts and general perception of the project by our 6 customers. We have made adjustments in our communications in 7 areas where this feedback indicated a need for more information or 8 a discussion of areas not previously addressed.

9 Q. WHAT ARE SOME OF THE KEY CUSTOMER BENEFITS OF 10 WESTAR'S SMARTSTAR PROJECT?

A. For the customer, our SmartStar project will offer convenient
access to detailed energy usage, cost, comparative data and other
energy efficiency tools via a secure online account. This will enable
customers to make more informed choices on how they use
electricity. It will provide a basis for multiple new products and
services that may help customers reduce energy costs.

One component of SmartStar, is the creation of a customer services roadmap that customers will find motivating and empowering. Through a secure web portal, customers will be able to see current energy usage information, set personal profiles for the types of energy information they wish to receive and choose the types of programs in which they want to participate. Key customer benefits will include:

- Energy Cost customers will be able to see their
 approximate billing costs to date with the same flexible and
 intuitive interface as usage.
- 4 Push Services – customers will be able to choose to receive 5 alerts and summaries via e-mail and text (SMS). These 6 alerts can include notification when a pre-set budget amount 7 is reached and/or weekly and monthly detailed summary 8 reports of their energy usage. In the future we plan to include 9 outage and restoration notifications and other options that 10 will be based in large part on customer feedback. We will 11 also support mobile applications for this information in future 12 enhancements.
- Comparative Analysis customers will be able to view cost
 and usage compared to similar periods in the past. Future
 enhancement plans include the ability to see how they
 compare to others with similar homes and area profiles.
- Energy Efficiency Tools and Analysis customers will be
 able to receive personalized tips and tools for energy
 efficiency and conservation.
- Additional Offerings as customer acceptance and
 preferences are better identified, new services will continue
 to be offered and existing ones improved.

1 The smart grid will also support the accommodation of 2 renewable and other distributed generation including plug-in hybrid 3 electric vehicles and all-electric vehicles. Important to all Kansans, 4 the smart grid will be able to integrate multiple sources of energy, 5 including wind power, into the power grid in ways that optimize 6 renewable energy and other green energy alternatives.

 7
 Q.
 PLEASE DISCUSS THE SUPPORT OF ELECTRIC VEHICLES IN

 8
 MORE DETAIL.

Westar has taken a position of leadership in providing customers 9 Α. with information on electric vehicles and including them in our fleet. 10 The Westar ElectroGo program will continue to grow with public 11 charging infrastructure initiatives and rate design incentives to 12 encourage affordable, off peak charging options for customers. 13 The smart grid development is critical in being able to deliver the 14 15 type of service programs that will encourage public acceptance of electric vehicles. 16

In order to earn credibility with customers as a trusted
resource about electric vehicles and transportation, we are leading
by example. We have recently added two electric trucks, two
Chevrolet Volts and two Nissan LEAF's to our fleet. We have four
Ford Transit Connect's on order with expected delivery by the end
of August.

Besides using the electric vehicles to conduct our business,
 we plan to sponsor events where our customers can have a chance
 to test drive our passenger size electric vehicles. We have already
 given the media that opportunity in Topeka.

5 We have recently launched a webpage on electric vehicles 6 at <u>www.westarelectrogo.com</u> and will continue to build on that site 7 to make it an informative and convenient location for customers to 8 find out more about electric vehicles.

9 Q. WILL ANY OF THE PROGRAMS ENABLED BY THE ADVANCED 10 METERS ADDRESS PEAK DEMAND?

SmartStar will enable a variety of new service rate structure options 11 Α. for customers. These options can support dynamic pricing, which 12 targets peak reduction. Westar plans to initiate a pilot program to 13 test the effectiveness of a dynamic pricing rate structure for curbing 14 15 electricity demand during peak times to help customers allocate 16 resources more efficiently. This pilot rate initiative will be voluntary for eligible customers. We pledge to work closely with Staff and its 17 18 consultant and with CURB to design a time of use rate.

19Q.ARE OTHER PILOT PROGRAMS PLANNED AS PART OF THE20SMARTSTAR PROJECT THAT RELATE TO ENERGY21EFFICIENCY OR REDUCING PEAK DEMAND?

A. Yes. Westar is considering pilot programs to test the effectiveness
of home energy management devices that enable customers to

track the energy use of individual items and control these items
 either using their preferred manual settings or automated settings
 based on things such as time of day or pricing signals. These
 programs will also be voluntary.

5 Q. HAVE YOU PARTICIPATED IN THE RATE DESIGN 6 WORKSHOPS SPONSORED BY THE KCC WHERE PILOT RATE 7 DESIGN AND APPROACHES HAVE BEEN DISCUSSED?

A. Yes. Westar has been fully engaged in those workshops and
shared detailed information prepared for us by The Brattle Group at
one of them. We are very interested in collaborating closely with
Staff and CURB to develop pilot rate programs for our customers
and to discuss business practices improvements.

Q. WILL THE SMARTSTAR PROJECT PROVIDE ANY BENEFITS TO WESTAR'S BUSINESS CUSTOMERS?

15 Α, Yes. While the SmartStar energy dashboard will be first offered to residential customers, we will be offering a business version of it 16 The business dashboard will include the kW 17 early next year. 18 demand information along with energy and cost detail. It will also 19 include the budget alert and summary reporting convenience 20 features that our residential dashboard offers. This will provide our 21 business customers the ability to monitor their usage and identify 22 areas where they can make changes to help manage their energy 23 costs.

1Q.WILL THIS BE NEW INFORMATION FOR THESE BUSINESS2CUSTOMERS?

For the most part it will be. While some businesses may have 3 Α. energy management tools, most do not, meaning they get their 4 5 monthly bill without much ability to monitor and adjust usage during a billing period. With the dashboard that situation can change, 6 enabling easy access to energy use and cost information 7 8 throughout a billing period. This could result in an opportunity for our business customers to take more profit to the bottom line. 9 Going forward, we are very interested in working with our business 10 11 customers to identify how we can refine demand and usage information available so we can deliver the most value to them and 12 13 help with their business success.

14Q.IS THE SMALL TO MID-SIZE BUSINESS SECTOR A LARGE15NUMBER OF CUSTOMERS FOR WESTAR?

A. Yes. In fact, it is the next largest group of customers following
 residential customers. It is difficult for many of these customers to
 take the time or make the investment for equipment to closely
 monitor their energy usage. We can make that easier for them with
 the SmartStar energy dashboard.

21Q.WILL THE INFORMATION AVAILABLE THROUGH THE22SMARTSTARPROJECTHELPWITHBUSINESS23DEVELOPMENT IN WESTAR'S SERVICE TERRITORY?

A. Absolutely. For existing businesses the ability to better manage
 energy use and cost can mean more cash available for growing the
 company. For new business development, knowing that Westar's
 service includes the energy dashboard is yet another benefit to
 include in the local economic development recruitment package.

6Q.WILL CUSTOMERS WHO ARE OUTSIDE THE SMARTSTAR7PROJECT AREA OR CHOOSE NOT TO USE THE NEW8ENERGY DASHBOARD EXPERIENCE BENEFITS?

9 A. Yes. These benefits will primarily fall in one of two areas best
10 described as lessons learned from the project and technology
11 enhancements that will serve all of Westar's customers.

12 For the first, while more difficult to quantify, a primary 13 objective of the project is to understand better what types of 14 customer programs and services will be well received and will in 15 fact provide value to both customers and Westar. We will also 16 learn more about the types of business process changes that will 17 have to be made to support and realize full advantage from a smart 18 grid environment. As a result, Westar will be in a better position to 19 determine further deployment strategies and the type of programs 20 that should be made available that will deliver the quickest and 21 most value. The result is more sound financial stewardship of our 22 efforts in this area.

1 In regard to technology enhancements, approximately \$26 2 million of the \$42 million project cost is for technology infrastructure 3 upgrades. These upgrades will serve all Westar customers and 4 include an advanced outage management system, a customer web 5 portal and an improved meter data management system. While it is 6 true that there are specific benefits to customers with smart meters, 7 improved system operations such as enhanced outage restoration 8 and customer access to information will benefit all customers, even 9 before they receive an AMI meter.

For project area customers, advanced metering itself offers remote meter reading, remote turn on and turn off capabilities (which we will explore using for standard orders such as a college rush period), voltage reporting and both momentary and sustained outage reporting.

15 The system intelligence provided by smart grid technology 16 will save meter reading and service expenses. And the other 17 information provided can help us recognize and address problem 18 areas possibly helping us to prevent an outage. When outages do 19 occur, smart grid technology can help us to determine more quickly 20 their extent and probable cause, hence enabling faster service 21 restoration. Advanced distribution line equipment can recognize 22 operational problems, provide automated switching and reporting 23 and minimize outage extent and length.

1 Material areas of assumption include the ability to handle 2 more service work remotely, such as meter reads on succession 3 orders or standard service turn on or turn off (this does not include 4 non-payment orders). This will prevent deploying a vehicle and the expense of sending a service person to a location. Meter reading 5 6 will be done with an automatic wireless process and estimated 7 meter readings should be substantially reduced with the smart grid. 8 This will reduce most meter reading expense and result in a more 9 accurate billing.

10Q.WHENDOYOUANTICIPATEMAKINGADECISION11REGARDING FURTHER SMART GRID DEPLOYMENT IN THE12WESTAR SERVICE TERRITORY?

13 Α. We have no predetermined date to make that decision. Instead, we 14 will utilize the information gained from the SmartStar Lawrence 15 project in conjunction with Westar financial performance and other 16 external factors to determine the right approach. SmartStar 17 Lawrence will provide the basis for making a sound, informed 18 decision. Our interest will be to properly balance costs and 19 benefits, both the benefits customers realize through their own 20 choices and actions to utilize the smart grid and operational 21 improvements and efficiencies, which customers may not even 22 perceive. Part of the analysis is taking into consideration the 23 relative geographic density of customers and the related costs.

1 Those factors must be taken into account as we roll out the 2 technology across a broader, more diverse and less geographically 3 dense service area. We will also consider the interests of our 4 investors.

D. Regulatory Treatment for SmartStar

Q. HOW DO YOU PROPOSE THAT WESTAR'S COSTS RELATING
TO THE SMARTSTAR PROJECT BE TREATED IN THIS RATE
FILING?

A. Westar filed for an Accounting Authority Order March 2, 2011 to
record and defer costs associated with the SmartStar project. That
filing is currently pending before the Commission. Should the
Commission grant Westar's request for an Accounting Authority
Order, then the cost relating to the SmartStar project included in
this rate filing should be removed from the revenue requirement as
discussed by Mr. Rohlfs.

Q. HOW DID WESTAR ACCOUNT FOR THE FACT THAT SOME OF
 THE COSTS HAVE BEEN REIMBURSED BY DOE?

A. Mr. Rohlfs explains how the cost reimbursed by DOE is accounted
for in the rate filing. Our customers will not be paying for those
reimbursed costs in their rates and will be receiving the benefit from
DOE's grant.

22 **Q. THANK YOU.**

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DESCRIPTION OF WESTAR'S ENERGY EFFICIENCY, CONSERVATION AND DSM INITIATIVES

I. WESTAR'S ENERGY EFFICIENCY, CONSERVATION AND DSM PROGRAMS

Westar's energy efficiency, conservation and DSM programs are:

- WattSaver (Docket No. 09-WSEE-636-TAR) a programmable thermostat/direct load control program;
- Building Operator Certification (Docket No. 09-WSEE-738-MIS) an educational series for facility managers;
- SimpleSavings (Docket No. 10-WSEE-775-TAR) a program that enables qualified customers to repay approved energy efficiency upgrades to homes and small businesses on their Westar bill;
- Energy Efficiency Education (Docket No. 09-WSEE-986-ACT) an array of consumer venues for distributing energy efficiency information to influence behavior change; and
- Energy Efficiency Demand Response (EE DR) Program (Docket No. 10-WSEE-141-TAR – a program for large energy users able to reduce their electrical load very quickly that entices them to do

II. DESCRIPTION OF THE WATTSAVER PROGRAM

Through WattSaver, residential and small commercial customers have the opportunity to participate voluntarily in a programmable thermostat program. The program helps customers save money, increases customer satisfaction, and helps Westar effectively manage summer peak loads. As participation increases, WattSaver has the potential to help delay building additional generating plants.

Program participants receive installation of a programmable thermostat, a 12point inspection of their heating/cooling system, access to an online energy management system, plus maintenance of the thermostat while enrolled in the program at no charge. The thermostat enables customers to customize settings and curtail usage when asleep or away, potentially lowering energy costs up to 20 percent. The thermostat contains a communication chip that enables customers to access a free online program through which they can remotely change their thermostat settings from any computer with Internet access to accommodate sudden schedule changes and temperature shifts. With this type of manageability at their fingertips, customers can fine-tune their energy usage to reduce year-round heating and cooling expenses.

In exchange for Westar providing this service, customers allow us – on occasion – to cycle their air conditioning compressors remotely during a weekday, never a weekend or holiday. This will happen no more than 90 hours per cooling season, typically on the hottest days during the summer when peak load is at its highest, during periods of operational instability (e.g., overloaded circuit), or based on economic reasons. For example, if based on fuel and purchased power costs in our Retail Energy Cost Adjustment clause, it would cost our customers less to implement the program than to buy power off-system, we opt for the least-cost option to our customers. Customers have the option to "opt out" of the program one day per month to accommodate vacations, summer gatherings and other considerations.

In the event a customer no longer wants to participate in the program, we will, at no charge to the customer, remove the programmable thermostat and reinstall the customer's previous unit (which was left with the customer upon the initial WattSaver installation).

WattSaver became available to customers in September 2009. Westar has nearly 24,000 thermostats installed across its service territory, far exceeding conservative expectations of signing up 14,000 customers by 2011. In 2010, Westar had five cycling events for a total of 17.5 hours to decrease load on our system. We surveyed a group of our customers after last summer's cycling season and 72% of respondents were not aware we were cycling, which indicates that we were not intrusive to the customer. The programmable thermostat has also played a pivotal part in consumer conservation efforts undertaken through the Climate and Energy Project's innovative Take Charge Challenge, through which communities of comparable size compete for a \$100,000 Department of Energy prize for an energy efficiency initiative.

III. DESCRIPTION OF THE BUILDING OPERATOR CERTIFICATION PROGRAM, ITS PROGRESS AND ITS CURRENT STATUS

Westar offers to any building operator employed by one of our commercial or industrial customers the opportunity to participate in the Building Operator Certification (BOC) program. The BOC program is a licensed program offered through the Midwest Energy Efficiency Alliance (MEAA). MEAA serves as the regional coordinator and facilitator of all components of BOC programs throughout the Midwest. The program is designed to achieve measurable, sustainable energy savings by properly training building operators and reducing system peak load (through coincidental peak reductions) to help defer the need for additional capacity.

The BOC program is a nationally recognized competency-based training and certification program for building operators who are responsible for the day-to-day

maintenance and operation of commercial and industrial buildings and charged with making them more energy efficient. Operators earn certification by successfully completing a series of training sessions, in-class exams and project assignments (completed within their respective facilities). BOC certification provides a credential for the building operators' professional development and provides employers a way to identify skilled operators.

The BOC program offers two levels of certification. Level I emphasizes energyefficient building maintenance practices. Level II stresses advanced equipment troubleshooting and preventative maintenance and offers elective courses to accommodate the varying needs of participants. Qualified instructors lead interactive classroom and group discussions. With practical projects, participants are able to apply tools and methods taught in class to their own facility, constructing functional records for electrical systems, heating, ventilation and air conditioning (HVAC) operations, lighting levels and controls, and annual profiles of energy consumption. Upon completion of their training, participants have in-depth reference manuals and access to the expertise of not only their fellow classmates but the entire BOC network of participants, experts, and resources to leverage for troubleshooting, best practices and advice.

Participants pay program tuition fees directly to MEAA and, upon successful certification, Westar reimburses a portion of the tuition to the paying party.

Our first BOC course began in November 2009. We have completed six Level I courses and one Level II course. Three Level I courses and one Level II course are in progress. Out of 118 Level I participants, 116 successfully completed the program. All 16 Level II course participants completed the program, bringing total certifications with

both courses to 132 as of August 1, 2011. We co-sponsored one course with Midwest Energy, Inc. (Midwest) and one course with Empire District Electric Company (Empire).

We also worked with the Kansas Department of Commerce to obtain a \$69,000 grant so we could make it more financially feasible for customers to participate. The funds enable us to provide \$575 to 120 participants to help defray costs. As of August 1, 2011, we have provided subsidies to 93 individuals. We believe strongly in the merits of the program and facilitated the expansion of the BOC statewide license to include not only Westar, KCP&L and Midwest, but also the Kansas Energy Office (KEO), Empire, Kansas Electrical Cooperatives and state municipal utilities. Through these efforts, all Kansas building operators have the opportunity to participate in this nationally recognized program.

As an additional incentive, KEO has provided \$85,000 in funding to reimburse the first 50 rural electric cooperative and municipal customers to participate with a \$1,700 rebate. This funding would pay for the training coordination fee that other utilities are required to pay Westar when operators in their territory attend our training, further extending the state's network of certified operators and building upon best practices in the industry.

IV. DESCRIPTION OF THE SIMPLESAVINGS PROGRAM

On January 31, 2011, the Commission approved Westar's partnership with Efficiency Kansas and the creation of Westar's SimpleSavings program. Westar's SimpleSavings program is a meter-based revolving loan program offered to qualifying customers in collaboration with Efficiency Kansas, a program developed by the KEO. Under the program, customers can obtain interest-free loans from the KEO to make energy efficiency upgrades to homes and small commercial businesses. Customers repay the loans on their Westar utility bills. Loans through the SimpleSavings program are funded by the America Reinvestment and Recovery Act (ARRA).

The KEO recently announced that it would redirect the majority of its ARRA funding to other energy-related projects. This redirection of funds will affect Westar's ability to continue the SimpleSavings program as it was originally intended. However, Efficiency Kansas representatives have indicated that they are looking for funding alternatives to enable participants to economically pay for energy efficiency upgrades. If funding is secured, then Westar's SimpleSavings program will be resumed.

Efficiency Kansas is designed to:

- 1. Produce cost-effective, firm energy savings,
- 2. Address efficiency improvements in a comprehensive whole house manner using sound building science principles,
- 3. Implement the most cost-effective programs in a logical sequence to maximize the energy savings per dollar spent, and
- 4. Target customers residing in structures most in need of efficiency improvements.

From January 31 to July 29, 2011, Westar used commercially reasonable efforts to identify homes needing energy efficiency improvements in compliance with the approved SimpleSavings Program Rider and the Program Manual of the Efficiency Kansas revolving loan program.

Westar facilitated the opportunity provided to customers under the SimpleSavings program by arranging for the financing of energy efficiency

improvements and collecting the obligations to the funding providers incurred by participants. The only upfront cost to the participating customer was the initial cost of the Efficiency Kansas audit performed on the home or business. In order to perpetuate this program for the benefit of future users, recipients of the funds were required to repay them. The investment is paid back through a charge on the customer's monthly utility bill that will not exceed 90% of the total estimated energy savings associated with the efficiency improvements. The program is designed to stimulate the local economy by helping consumers save money on their utility bills and provide revenue for local contractors, thus keeping the ARRA stimulus funds in Kansas.

To announce the SimpleSavings program, Westar's energy efficiency staff hosted open houses with Efficiency Kansas staff and auditors invited to participate in Topeka and Wichita, sent two news releases widely picked up throughout the service territory, sent information to online billing customers, created a brochure and bill insert for all customers, promoted the program in the Westar Efficiency online newsletter, made presentations to community groups, hosted two breakfasts for Efficiency Kansas auditors to explain Westar's participation, and highlighted the program at spring home shows with a SimpleSavings magazine wrap accompanying an Efficiency Kansas booklet with comprehensive information about the program. Westar's energy efficiency staff also hosted a third open house in Colwich, a community we worked with in 2009 to influence behavioral change regarding energy consumption.

We are firm believers in the advantages of having a professional energy audit to learn more about steps that customers can take not only to add insulation, address air leaks and replace outdated heating and cooling equipment, but also to make easy and inexpensive improvements to caulk windows and seal holes around wiring to save energy. To that end, we are considering options that would allow us to sustain a home energy audit program for residential customers to help them conserve energy and improve comfort without the ARRA funding.

Below are statistics outlining the program's initial reception and participation since KCC approval January 31, 2011, through July 27, 2011:

Inquiries: 736 program inquiries;

Audits: 900 audits performed in Westar territory;

Meter Obligation Agreements Signed: 236 signed; and

Approved Projects: 87 loans totaling \$613,013.64

V. DESCRIPTION OF WESTAR'S APPROACH TO ITS ENERGY EFFICIENCY EDUCATION PROGRAMS

Comfort, convenience, connection – these are the elements we provide to our customers through the safe, reliable delivery of electricity. Electricity powers our customers' way of life, from keeping their food refrigerated and their homes cool in the summer to facilitating Facebook exchanges and family movie nights. The demand for electricity continues to increase as new products from e-readers to electric cars enter the marketplace. Innovative technologies proliferate at an unprecedented pace. To help manage demand, we have developed several educational programs to help consumers use energy wisely. Collaboration and cooperation will help postpone the need for additional power plants and help preserve the environment. By providing customers with tips and tools to initiate behavior changes, we can establish a strong foundation for other energy efficiency and demand side management programs.

Although most of us have a pretty accurate sense of how long a foot is or about how much water is in a cup, relatively few have a good sense of what a kilowatt-hour (kWh) is, or what distinguishes a kilowatt (kW) from a kWh. Hence, one area of emphasis we are focusing on in 2011 with our messaging is the value that customers receive for the electricity they use to make their lives run more smoothly. The production and delivery of safe, reliable electricity is at the heart of everything we do at Westar. As Westar customers ourselves, we know how important electricity is to our quality of life and also how easy it is to take for granted the seeming magic of flipping on a switch and having light, hot coffee, or an Internet connection whenever they are desired. Customers who buy and experience tangible products often do not consider that their purchases of appliances, smart phones, and entertainment devices increase demand for electricity. When blowing their hair dry in the morning or watching a basketball game or checking email at night, most do not consider that those routine actions are backed by an expansive and intricate 24/7 infrastructure of power plants, wind farms and service centers supported by a cadre of other professionals doing whatever it takes to keep their lights on.

Our goal is to use common applications and plain language in a variety of venues to explain that at approximately 10 cents per kWh for residential customers, electricity is a bargain. For example, most customers understandably expect to pay more than 32 cents for a pack of gum or a bottle of water that will provide fleeting satisfaction, yet many do not realize that the same 32 cents can do all of the following: operate their garage door opener for a month, light three rooms in their home for 10 hours, wash a load of laundry, or power their DVD player for an hour. As the demand for safe, reliable electricity continues to climb, reinforcing both the value of electricity and the relevance of using it wisely will be at the forefront of our energy efficiency educational efforts.

Westar's education programs include the following:

Energy Efficiency for Education, recently renamed Powerpedia

We designed a program for students K-12 to raise energy conservation awareness and provide age-appropriate tips for how they can save energy by replacing incandescent bulbs with compact fluorescent lamps, taking shorter showers and understanding phantom load. Trained representatives present information that meets state education standards to complement teachers' lesson plans. For example, students from kindergarten through fourth grade receive a diary with stickers to place on each weekday as they take actions that save energy. A Disney Lion King DVD supplements the lecture by emphasizing the importance of conservation in an engaging, elementary format, and a "vampire" house with magnetized stickers enables students to identify energy-wasting activities in the home (i.e., a television on with no one watching, lights and ceiling fans left on in empty rooms). Students in grades five through 12 perform a comprehensive energy assessment of their homes, looking at items such as window orientation and number of panes, age of heating and cooling equipment, duct work and thermostat settings. Older students watch an educational DVD that explores either energy-efficiency measures or electricity production at Jeffrey Energy Center. They also engage in hands-on learning opportunities, such as a hand crank generator that powers an incandescent bulb, a CFL and an LED light. Every student also receives a kit with information that can be shared with their parents and appropriate promotional

items (i.e., a shower timer, an LED nightlight, stickers for placement on game consoles and other gadgets).

Since the education program's inception in August 2009, through August 1, 2011, the program has reached more than 14,500 students. Program participation continues at a steady rate and counts toward Take Charge Challenge points for communities participating in a Climate and Energy Project initiative as discussed below. In fact, the school program's substance and execution have garnered accolades from the Edison Electric Institute, which has recommended it as a model to other utilities. Based on an EEI referral, Georgia Power recently contacted the Energy Efficiency Department to express interest in adopting the program for its customers.

Speakers' Bureau

We designed this program regarding the efficient use of energy to reach community and civic groups made up of our customers. It is similar to the Energy Efficiency for Education (Powerpedia) program in that our employees make presentations and provide information to the groups. The presentations include discussion points on how energy is produced, plus a variety of low-cost, no-cost ways to save energy, such as installing WattSaver programmable thermostats, obtaining professional energy audits, and switching incandescent bulbs to compact fluorescent lamps. Specialized versions of the presentation have been turned into classes for firsttime homebuyers and homeowners interested in do-it-yourself projects to improve energy efficiency. From August 2009 to August 1, 2011, we have reached more than 7,800 people through about 200 community presentations. We continue to refine and tailor material for various audiences, from Rotary Clubs and workplace forums to retiree groups and neighborhood associations, to enhance understanding and encourage behavioral change.

Real Estate Professional Certification Courses

This program provides training for real estate professionals (typically agents and appraisers) to understand, identify, assess, and sell the energy efficiency features of a home. The program has been designed to fulfill four hours of required continuing education for licensed real estate agents. This class has been offered 15 times, resulting in the certification of 229 realtors and appraisers.

Do-It-Yourself Home Energy Audit Classes, recently renamed Home Energy Savings Workshops

Westar offers Home Energy Savings Workshops to provide homeowners with practical, easy-to-implement ideas to reduce energy consumption. From January 2010, through August 1, 2011, 11 classes drew 291 participants. We are planning five additional classes in 2011 in Fort Scott, Lawrence, Manhattan, Topeka and Wichita.

Home Shows and Community Booths

Each spring communities throughout our service territory host home shows to inform customers about the latest construction and remodeling innovations to help them maximize their home's appearance, comfort, and value. Realizing that many of the people who attend these shows are our customers, we began staffing an informational booth to distribute energy efficiency and environmental awareness messages through these venues. Visitors to the Westar booth can obtain information about heat pumps, the WattSaver programmable thermostat program, SimpleSavings and compact fluorescent lamps (including a display that showcases different applications) and ask questions. We are frequently asked to participate in community events throughout the service territory to share information about Westar's energy efficiency programs. These opportunities include Earth Day celebrations, environmental initiatives, and open house events, along with academic, energy and housing conferences. We have a strong presence at the Kansas State Fair each year and seek additional venues to promote messaging and provide information that our customers can use to impact their energy consumption and expense. Since August 2009, we have staffed 134 home shows and community booths, reaching more than 44,000 attendees.

"Save a Watt, Save a Lot"

We initiated this program in our own facilities through the distribution of fliers to encourage employees to take steps to save energy at work. The principles, equally applicable to our customers, remind employees that simple energy efficient actions around the office such as turning off their computers when they go home at night result in energy savings. We continue to offer lunch-time seminars to employees and reinforce the messages from this campaign to educate them about saving energy at home too. We have taken a scaled-down version of our trade show booth to all our company locations to maintain awareness of energy efficiency.

Take Charge Challenge Community Events

Westar is among partner utilities assisting with the Climate and Energy Project's competition among Kansas communities to encourage energy efficiency. Through this program, which has garnered national media attention for its grassroots approach and successful energy consumption reduction, communities compete for a \$100,000 Department of Energy prize. In 2010, Westar worked with Salina. In 2011, Westar is participating in Take Charge Challenge initiatives in five Kansas communities: Fort

Scott, Lawrence, Manhattan, Parsons and Pittsburg. Westar is extensively involved in the challenge activities. Westar provides liaisons to serve on each community's Leadership Team, promotes and tracks WattSaver programmable thermostats, promotes Westar's SimpleSavings program in conjunction with Efficiency Kansas, and provides educational presentations to schools and community and civic groups, Home Energy Savings Workshops, real estate certification classes and targeted participation at other tailored events to promote the challenge.

Multimedia Education

We use mass media, such as the Internet and direct mail, to reach larger audiences with energy efficiency educational messages. The Westar EfficiencyWorks newsletter, Facebook postings and direct mail campaigns also have been used to reach consumers with key messages. Westar works with Apogee Interactive Inc. to provide online calculators that enable customers to determine how behavioral habits and subsequent changes can dramatically affect their energy consumption. Apogee provides reports that enable us to review the areas that are of most interest to our customers so we can better address their needs. Below are statistics highlighting traffic specific to energy efficiency news and initiatives.

> October 2006 to July 2011 Visits – 477,912 Page Views – 2,919,589 Page Views Per Visit – 5.96 Time Spent Per Visit – 3:37 Downloads – 8,367

Direct mail was an important part of our year-long project in Colwich, Kansas, where we engaged an entire town in energy efficiency education through public events, a weatherization project and comparative use letters. Direct mail will also be an integral component of our SimpleSavings marketing efforts to make sure customers who live in neighborhoods presumed to be the least energy efficient because of the housing stock's age and typical construction methods used during the time period (i.e., insufficient insulation) are aware of the opportunity to invest in energy efficient upgrades and pay them back through their utility bill.

Brochures, Bill Inserts and Promotional Items

All of Westar's programs rely on the production and distribution of brochures and other material, including promotional items such as a CFL or other appropriate item(s), to educate consumers how to use energy efficiently. In addition, the educational programs provide consumers of all ages with information on how using energy efficiently can promote conservation and cost savings.

VI. DESCRIPTION OF WESTAR'S ENERGY EFFICIENCY DEMAND RESPONSE PROGRAM RIDER

Westar's Energy Efficiency Demand Response Rider supplements, enhances and expands Westar's long-established demand response programs for commercial customers. Westar has offered those programs through three approved rates schedules or riders. They are: a) the Generation Substitution Rate Schedule; b) the Interruptible Contract Service Rate Schedule; and c) the Interruptible Service Rider. These interruptible service programs are discussed in more detail below.

The demand response program rider enhances Westar's existing demand response programs and provides additional benefits to the system through use of a reduced notification period – as short as 10 minutes – to program participants to shed load. It is designed for Westar's largest users of energy that can shed load quickly. This enhancement over Westar's existing demand response programs will assist Westar in responding to emergency system conditions affecting its ability to provide efficient and sufficient service to customers.

One customer is enrolled in this new program, and we are discussing participation with other qualified industrial and commercial customers. The currently enrolled customer has contracted to provide 95 MW of peak reduction. Westar initiated curtailment four times under our demand response programs in 2010. Three curtailments were due to peak conditions, and one was a local transmission loading issue. During the transmission event, the customer in this program was the only one curtailed. Westar has initiated curtailment once so far in 2011, as a result of a localized system condition involving failure of transmission system equipment.

The transmission event is a good example to illustrate the benefit of this rider. We called on the customer when a transmission line suddenly went out of service, resulting in an overload situation on another transmission line. Westar reduced generation production at the Gordon Evans station by 50 MWs to relieve the situation. Even with this reduction in generation, the transmission line was still slightly overloaded. A subsequent transmission issue could have resulted in the overload of multiple lines serving the Wichita area. To minimize the possible contingency, Westar asked the customer on the EE DR rider to curtail its load by 50 MWs.

VII. OTHER ENERGY EFFICIENCY PROGRAMS BEING REVIEWED BY WESTAR – APPLIANCE RECYCLING PROGRAM

The Appliance Recycling Program would provide participating customers with monetary incentives and free removal of their old working refrigerators and freezers. By retiring inefficient appliances, customers decrease their energy consumption and save on their monthly electric bills, thereby eliminating the short-term need for Westar to build new power plants. This program not only saves energy but also helps protect the environment through the reduction of potent greenhouse gasses like refrigerants and foam blowing agents, which are either reclaimed or destroyed.

VIII. PROGRAMS TO EDUCATE HVAC PROFESSIONALS AND BUILDERS

Westar has developed direct relationships with HVAC professionals and builders to engage them in an ongoing discussion about the benefits of high-efficiency equipment and of building practices that improve the thermal envelope and, thus, the energy efficiency of homes. As part of this program, Westar provides financial incentives, brochures and other educational materials that these trade allies can use when educating consumers about heat pumps, lighting, insulation and related matters.

This program supplements our direct-to-consumer education. Decisions to replace HVAC equipment are often made under the exigencies of the moment when much needed air conditioning equipment fails on a hot summer day. At such times, customers will often look to a trusted professional for a quick solution. Similarly, whether building or purchasing a new home, customers typically look to the professionals with whom they have established some trust and a relationship for guidance regarding building choices that affect the efficiency of the home.

IX. WESTAR'S PROGRAMS OR POLICIES IN PLACE TO "LEAD BY EXAMPLE" FOR ENERGY EFFICIENCY

As mentioned above, Westar's "Save a Watt, Save a Lot" program aims to encourage energy savings in our offices. In addition to this, early in the operation of our Energy Efficiency Department, we established programs to encourage employees to save energy at home.

Westar's experience has shown that our employees and retirees can be effective educators of our customers. Most of them live in the communities we serve at retail, and our customers often consult them on energy matters. Those who use the program become "ambassadors" to our customers. Even those who are not ready to replace their HVAC systems have become more conversant about the benefits of high efficiency equipment by virtue of educational seminars conducted for employees when we launched the program.

As federal laws and retail product lines change, many consumers are finding purchasing new light bulbs takes more forethought than in the past. Our lighting program and accompanying literature have helped us educate employees who in turn spread the message to our customers.

Westar also adopted a policy to adhere to the Leadership in Energy and Environmental Design (LEED) standards when practical when building a new office facility or making major renovations to an existing office space. LEED is also referred to as "Green Building Rating" and designates state-of-the-art applications in energy efficient, environmentally sound construction. One of Westar's leadership examples in this area is the renovation and expansion of the Lawrence Service Center, which earned LEED Silver certification. Westar's operations leadership continues to identify projects to improve system efficiency. For example, in 2010, Westar completed a transmission project to provide a major 345 kV tie across the west end of our system from Wichita to Salina that will help the company fulfill energy needs more efficiently.

The Consumer Services division of the Energy Efficiency Department is implementing a new electronic gadget testing program this year using staff volunteers to test new products in the marketplace that can facilitate energy savings, such as charging grids for cell phones. Findings initially will be reported in Synergy, the employee newsletter, and eventually posted to the EfficiencyWorks online newsletter in an effort to increase awareness about emerging developments in the field.

The EfficiencyWorks online newsletter frequently includes first-hand staff accounts of energy saving measures they have implemented to encourage readers to follow suit.