Exhibit No.: Issue: Affordability, Energy Efficiency, and Demand Response Programs; Aquila Advisory Group Witness: Allen D. Dennis Type of Exhibit: Direct Testimony Sponsoring Party: Aquila, Inc. dba KCP&L Greater Missouri Operations Company Case No.: ER-2009-____ Date Testimony Prepared: September 5, 2008

MISSOURI PUBLIC SERVICE COMMISSION

CASE NO. ER-2009-____

DIRECT TESTIMONY

OF

ALLEN D. DENNIS

ON BEHALF OF

AQUILA, INC. dba KCP&L GREATER MISSOURI OPERATIONS COMPANY

Kansas City, Missouri September 2008

DIRECT TESTIMONY

OF

ALLEN D. DENNIS

Case No. ER-2009-____

1	Q:	Please state your name and business address.			
2	A:	My name is Allen D. Dennis. My business address is 1201 Walnut, Kansas City,			
3		Missouri 64106-2124.			
4	Q:	By whom and in what capacity are you employed?			
5	A:	I am employed by Kansas City Power & Light Company ("KCP&L") as Director,			
6		Products and Services.			
7	Q:	What are your responsibilities?			
8	A:	My responsibilities include providing leadership and direction to the Energy Efficiency,			
9		Demand Response, Market Competitiveness, and Market Intelligence Teams of KCP&L			
10		and Aquila, Inc. dba KCP&L Greater Missouri Operations Company ("GMO" or the			
11		"Company"). My duties include initiating and bringing to market new products, as well			
12		as improvements and innovations to existing affordability, energy efficiency, and demand			
13		response programs products and services for KCP&L and GMO.			
14	Q:	Please describe your education, experience and employment history.			
15	A:	I graduated from Colorado State University with a Bachelor of Science degree in			
16		Mechanical Engineering in 1981. I have 25 years of experience in the electric and natural			
17		gas industry. I was first employed at KCP&L in 2004 as the Manager, Market			
18		Management. In this capacity, I managed KCP&L's Energy Consultants, Commercial			
19		and Residential Sales functions. Prior to my employment at KCP&L, I served as a			

1		Director in the Enterprise Consulting Division for Black & Veatch responsible for the		
2		energy practice and consulting with clients on integrated resource plans, risk management		
3		and operational improvements. Additionally, I was Executive Vice President and co-		
4		founder of Enserco Energy, an energy trading, marketing, and services company and co-		
5		founder and board member of Hometown Connections, a company focused on offering		
6		products and services to public power utilities. Prior to Enserco Energy I served as		
7		Director, Power Marketing for KN Energy where I formed the electric trading and		
8		marketing area. I began my utility career at Public Service Company of Colorado and		
9		over the course of 14 years held various positions including marketing engineer,		
10		marketing project specialist, manager of electric wholesale and cogeneration markets, and		
11		manager of bulk power business development.		
12	Q:	Have you previously testified in a proceeding at the Missouri Public Service		
13		Commission ("MPSC") or before any other utility regulatory agency?		
13 14	A:	Commission ("MPSC") or before any other utility regulatory agency? No, I have not.		
	A: Q:			
14		No, I have not.		
14 15	Q:	No, I have not. What is the purpose of your testimony?		
14 15 16	Q:	No, I have not. What is the purpose of your testimony? The purpose of my testimony is to provide a progress report on the development and		
14 15 16 17	Q:	No, I have not. What is the purpose of your testimony? The purpose of my testimony is to provide a progress report on the development and implementation of the Affordability and Energy Efficiency programs. For these		
14 15 16 17 18	Q:	No, I have not. What is the purpose of your testimony? The purpose of my testimony is to provide a progress report on the development and implementation of the Affordability and Energy Efficiency programs. For these programs, I will provide an update explaining what steps GMO has taken thus far with		
14 15 16 17 18 19	Q: A:	No, I have not. What is the purpose of your testimony? The purpose of my testimony is to provide a progress report on the development and implementation of the Affordability and Energy Efficiency programs. For these programs, I will provide an update explaining what steps GMO has taken thus far with respect to these initiatives.		
14 15 16 17 18 19 20	Q: A:	No, I have not. What is the purpose of your testimony? The purpose of my testimony is to provide a progress report on the development and implementation of the Affordability and Energy Efficiency programs. For these programs, I will provide an update explaining what steps GMO has taken thus far with respect to these initiatives. What did the Stipulation and Agreement in GMO's last rate case, Case No. ER-		

1		allowance for funds used during construction ("AFUDC") annually. It also stipulated
2		that these costs would be amortized over 10 years and that the prudently-incurred costs
3		included in Account 186 would be added to rate base in GMO's next rate case.
4	Q.	Did the Stipulation and Agreement set out a funding goal for these programs?
5	А.	Yes. The Stipulation and Agreement set out a funding goal for these programs of one
6		percent of GMO's annual revenue by 2010.
7	Q:	What programs has GMO implemented since its last rate case?
8	A:	GMO has implemented two Affordability programs and five Energy Efficiency
9		programs. Specifically, the programs are as follows:
10		Affordability
11		• Low-Income Affordable New Homes (New Construction); and
12		• Low-Income Weatherization.
13		Energy Efficiency
14		Residential:
15		• Home Performance with ENERGY STAR [®] ;
16		• Residential Lighting Program; and
17		• ENERGY STAR [®] New Homes.
18		Commercial/Industrial ("C&I"):
19		• Energy Audit and Energy Saving Measures Program ("C&I Program");
20		and
21		• Building Operator Certification Program.
22	Q:	Could you please describe the programs and provide an update as to the status of
23		their implementation?

A: Yes, the following is a program-by-program description, including the status of each
 program.

3 Affordable New Homes (New Construction):

4 The Affordable New Homes Program is designed to be a partnership between GMO and 5 organizations to achieve qualifying energy efficient affordable new housing for the low-6 income community. Financial incentives will be available up to \$800 for the incremental 7 cost for high efficiency cooling systems, either central air conditioners or heat pumps. An incentive of up to \$200 will be available toward the purchase of an ENERGY STAR[®] 8 rated refrigerator, up to \$100 for the purchase of ENERGY STAR[®] rated lighting fixtures 9 10 and up to \$400 for additional attic, floor or crawlspace insulation. The tariff for this 11 program became effective March 12, 2008.

12 <u>Low-Income Weatherization</u>:

13 Qualified lower income customers can get help managing their energy use and bills

14 through GMO's Low-Income Weatherization Program. The program works directly with

15 local social agencies that already provide weatherization services to low-income

16 customers. GMO will provide supplemental funds to the social agencies to cover the cost

17 of additional cost-effective weatherization measures. GMO residential customers with

18 income up to 185% of the federal poverty guidelines may participate. The tariff for this

- 19 program became effective March 12, 2008.
- 20 <u>Home Performance with ENERGY STAR</u>[®]:

Home Performance with ENERGY STAR[®] ("HPwES") enhances the traditional home
energy audit service and uses the ENERGY STAR[®] brand to help encourage and
facilitate whole-house energy improvements. Missouri Department of Natural Resources

1	("MDNR") is sponsoring a statewide HPwES program. GMO will coordinate with					
2	MDNR and the Metropolitan Energy Center ("MEC") to implement an effective HPwES					
3	program regionally. GMO will focus specifically on the marketing, customer incentives,					
4	and program evaluation portion of the partnership. The tariff for this program became					
5	effective April 30, 2008.					
6	Residential Lighting Program:					
7	This program provides rebates for compact fluorescent light bulbs ("CFLs") at point of					
8	purchase in specific stores and is administered by the Midwest Energy Efficiency					
9	Alliance.					
10	The 2007 Residential Lighting program accomplished 145 percent of the annual					
11	goal, resulting in over 692 annual megawatt hours saved annually and over 4,848 lifetime					
12	megawatt hours saved.					
13	ENERGY STAR [®] New Homes:					
14	ENERGY STAR [®] New Homes requires that new homes be constructed under guidelines					
15	set by the U.S. Environmental Protection Agency through the ENERGY $STAR^{\ensuremath{\mathbb{B}}}$					
16	program. Homes built under these guidelines are typically 20 percent to 30 percent more					
17	energy efficient than standard homes. These savings are based on heating, cooling, and					
18	hot water energy use and are typically achieved through a combination of building					
19	envelope upgrades, high performance windows, controlled air infiltration, upgraded					
20	heating and air conditioning systems, tight duct systems, and upgraded water-heating					
21	equipment. Homes can be qualified as an ENERGY STAR [®] home through two different					
22	paths. The prescriptive path uses Building Option Packages which represent a set of					

1	construction specifications for a specific climate zone. The performance path qualifies the
2	home based on a home energy rating.
3	Builders who construct homes that meet the ENERGY STAR [®] standard will qualify for
4	an \$800 rebate. GMO will also pay up to \$750 for the inspection and ratings required to
5	meet the ENERGY STAR [®] requirements. The tariff for this program became effective
6	March 12, 2008.
7	Energy Audit and Energy Savings Measures Program ("C&I Program"):
8	The C&I Program is made up of multiple parts. For the C&I Audit Rebate, GMO offers
9	rebates to customers to cover 50% of the cost of an energy audit, up to \$300 for
10	customers with facilities less than 25,000 square feet and up to \$500 for customers with
11	facilities over 25,000 square feet. In order to receive the rebate, the customer must
12	implement at least one of the audit recommendations that qualify for a GMO C&I
13	Custom Rebate.
14	For the C&I Custom Rebate programs, Retrofit and New Construction, GMO
15	offers rebates to customers that install, replace or retrofit qualifying electric savings
16	measures, including HVAC systems, motors, lighting, pumps, etc. Custom rebates are
17	calculated as the lesser of a buy-down to a two-year payback or 50% of the incremental
18	cost. The tariff for this program became effective April 30, 2008.
19	Building Operator Certification Program:
20	Building Operator Certification ("BOC") Program is a market transformation effort to
21	train facility operators in efficient building operations and management ("O&M"),
22	establish recognition of and value for certified operators, support the adoption of
23	resource-efficient O&M as the standard in building operations, and create a self-

- 1 sustaining entity for administering and marketing the training. The tariff for this program
- 2 became effective March 12, 2008.

3 Q: What are the current expected costs of the programs?

	2008	2009	2010	2011	2012	Total
Affordable New	\$32,000	\$64,000	\$71,500	\$64,000	\$64,000	\$295,500
Homes						
Low-Income	\$467,100	\$468,198	\$469,329	\$470,494	\$471,694	\$2,346,815
Weatherization						
HPwES	\$137,500	\$137,500	\$157,500	\$137,500	\$137,500	\$707,500
Residential	\$80,400	\$116,600	\$125,600	\$137,000		\$459,600
Lighting						
ENERGYSTAR [®]	\$80,000	\$545,000	\$985,000	\$935,000	\$935,000	\$3,480,000
New Homes						
C&I Program	\$807,301	\$867,301	\$867,301	\$867,301	\$867,301	\$4,276,505
BOC Program	\$105,000	\$105,000	\$105,000	\$105,000	\$105,000	\$525,000
Total	\$1,709,301	\$2,303,599	\$2,781,230	\$2,716,295	\$2,580,495	

4 A: The following table shows the budgeted funding levels by program.

5

6 Q: Does GMO anticipate implementing additional DSM programs?

7 A: Yes. Prior to the acquisition of Aquila, Inc. ("Aquila") by Great Plains Energy 8 Incorporated, Aquila personnel had been coordinating the plans to implement DSM 9 programs with KCP&L personnel. This led to the development and implementation of 10 programs for Aquila that were substantially similar to those of KCP&L. However, 11 Aquila was unable to develop and implement all of the programs that KCP&L has in 12 place due to time and resource considerations. Now that the transaction has been 13 completed, GMO is working to develop and implement additional programs in order to 14 offer GMO customers the same programs as are offered to KCP&L customers. 15 Q. What are the additional programs that GMO plans to implement? 16 A. GMO has filed tariffs for the Energy Optimizer Program, MPower, the Cool Homes 17 Program, and the Home Energy Analyzer. The tariffs were filed on August 11, 2008 with 18 a requested effective date of September 10, 2008.

1

Q. Please describe these programs.

2 A. <u>Energy Optimizer Program (Air Conditioning Cycling)</u>:

The Energy Optimizer program is an air conditioning cycling program by which GMO could reduce residential and small commercial air conditioning load during peak summer days. This load reduction would be achieved by sending a paging signal to a control device in a thermostat attached to the customer's air conditioner. The control device then turns the air conditioner off and on or ramps up the temperature over a period of time depending on the load reduction strategy established by GMO.

9 <u>MPower</u>:

10 MPower is a C&I curtailment program whereby customers with the ability to curtail

11 25 kW or more would be incented to contract with GMO to curtail their load when

12 requested by GMO. Under MPower, the customer would be invited to use the

13 curtailment method(s) that best meets their capabilities and needs. This could include

14 turning on a back-up generator, shutting off lights or production lines, raising their

15 cooling system temperature several degrees, or stopping operations and sending their

16 employees home.

17 <u>Cool Homes Program</u>:

18 This program is designed to incent customers to install high efficiency cooling

19 equipment, before failure, to maximize energy savings benefit. Early replacement will be

20 target replacement of Seasonal Energy Efficiency Ratio ("SEER") 6 to 8 equipment with

21 SEER 14 or higher equipment.

22 Home Energy Analyzer:

This Program allows all residential customers with access to the Internet to
 retrieve their billing information, make comparisons of electric usage on a monthly or
 yearly basis, analyze electric usage on an end use basis, and research energy savings by
 end use through a searchable resource center.

5

Q: Is GMO requesting any additional programs?

6 A: Yes, GMO is requesting two additional programs, an Economic Relief Pilot Program
7 ("ERP²") and a Supplemental Weatherization and Minor Home Repair program.

8

Q: Describe each of these new programs?

The ERP^2 is a program designed to deliver energy affordability benefits to qualifying 9 A: 10 low-income residential GMO customers. This Program delivers a \$50 per month "fixed 11 credit" to low-income customers in an effort to improve low-income home energy affordability. ERP² will be operated by GMO in order to generate affordable home 12 electric bills to ERP² participants, thus allowing those participants to make full and 13 14 timely payments on their monthly bills. Based on 1,000 participants, the annual proposed budget is 630,000. The ERP² proposed tariff is included in the Minimum Filing 15 16 Requirements of this filing. Company witness Chris Giles includes in his Direct 17 Testimony a request that 50% of the cost of the program be deferred until GMO's next 18 rate case and considered for recovery at that time.

The proposed Supplemental Weatherization and Minor Home Repair Program is
 intended to assist qualified residential customers in reducing their energy usage by
 weatherizing their home. Efficiency efforts include insulation enhancements, infiltration
 reduction, heating and cooling service, lighting upgrades, installation of setback
 thermostats and energy efficiency education. Home repair efforts include hazards,

including installation of smoke alarms and CO₂ detectors. Replacement of basic systems,
 including heating, electrical, plumbing, and roofing when considered an immediate health
 / safety risk or emergency repair.

The program will be administered by GMO and implemented by qualified
weatherization and home repair contractors. Based on 75 weatherization participants and
75 minor home repair participants, the annual proposed budget is \$892,500. GMO has
not proposed cost recovery in this rate case, but rather will collaborate with the Staff and
the Office of Public Council on cost recovery and other aspects of the program.

9 Q: Does GMO utilize an advisory group when developing its DSM programs?

10 A: Yes. What has been known as the Aquila Advisory Group has been in existence for some 11 time. This group meets approximately every 6 - 8 weeks. During these meetings, GMO 12 representatives discuss the company's plans for new programs as well as existing 13 programs. GMO takes feedback from this group and uses it to modify programs prior to 14 filing them with the MPSC. The group has been involved in the development of each of 15 GMO's current programs and includes representatives from the MPSC Staff, the Office 16 of Public Counsel, the MDNR, the Missouri Valley Community Action Agency, the City 17 of Kansas City, and the Sedalia Industrial End-Users Group.

18 Q: Does GMO intend to continue with this advisory group?

19 A: For the time being we do. However, there is significant overlap between the KCP&L

20 Customer Program Advisory Group and the Aquila Advisory Group. Given the

21 previously stated plan to develop and implement GMO programs that are consistent with

the KCP&L programs, it may make sense to combine these groups in the future.

23 Q: Does that conclude your testimony?

1 A: Yes, it does.

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of the Application of Aquila, Inc. dba KCP&L Greater Missouri Operations Company to Modify Its Electric Tariffs to Effectuate a Rate Increase)

Case No. ER-2009-____

AFFIDAVIT OF ALLEN D. DENNIS

STATE OF MISSOURI) ss

COUNTY OF JACKSON

Allen D. Dennis, being first duly sworn on his oath, states:

1. My name is Allen D. Dennis. I work in Kansas City, Missouri, and I am

employed by Kansas City Power & Light Company as Director, Products and Services.

Attached hereto and made a part hereof for all purposes is my Direct Testimony 2.

on behalf of Aquila, Inc. dba KCP&L Greater Missouri Operations Company consisting of

 (\mathbb{N}) pages, having been prepared in written form for introduction into evidence in the above-captioned docket.

I have knowledge of the matters set forth therein. I hereby swear and affirm that 3. my answers contained in the attached testimony to the questions therein propounded, including any attachments thereto, are true and accurate to the best of my knowledge, information and belief.

Allen D. Donnis

Subscribed and sworn before me this 5 day of August 2008.

Nicor A. We Notary Public

My commission expires: Filo 4.2011

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"NOTARY SEAL"
Nicela A Mohry Notary Public
Nicole A. Wehry, Notary Public
Chata of Miccourt
Jackson County, State of Missouri
Dacksoff County - out oott
My Commission Expires 2/4/2011
My Commission Expired E.