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Issues: Normalized Off-  
System Sales  
Witness: Jaime Haro  
Sponsoring Party: Union Electric Co.  
Type of Exhibit: Direct Testimony  
Case No.: ER-2010-\_\_\_\_\_  
Date Testimony Prepared: July 24, 2009

**MISSOURI PUBLIC SERVICE COMMISSION**

**CASE NO. ER-2010-\_\_\_\_\_**

**DIRECT TESTIMONY**

**OF**

**JAIME HARO**

**ON**

**BEHALF OF**

**UNION ELECTRIC COMPANY  
d/b/a AmerenUE**

**St. Louis, Missouri  
July, 2009**

## TABLE OF CONTENTS

I. <u>INTRODUCTION</u> .....	1
II. <u>PURPOSE AND SUMMARY OF TESTIMONY</u> .....	4
III. <u>ENERGY SALES REVENUES</u> .....	6
IV. <u>CAPACITY SALES REVENUES</u> .....	11
V. <u>ANCILLARY SERVICES REVENUES</u> .....	14
VI. <u>REVENUE SUFFICIENCY GUARANTEE MAKE WHOLE PAYMENTS</u> ....	15

1 **DIRECT TESTIMONY**  
2 **OF**  
3 **JAIME HARO**  
4 **CASE NO. ER-2010-\_\_\_\_\_**

5 **I. INTRODUCTION**

6 **Q. Please state your name and business address.**

7 A. My name is Jaime Haro. My business address is One Ameren Plaza, 1901  
8 Chouteau Avenue, St. Louis, Missouri.

9 **Q. By whom are you employed and in what capacity?**

10 A. I am Director, Asset Management and Trading for Union Electric  
11 Company d/b/a AmerenUE (“AmerenUE” or “Company”).

12 **Q. Please describe your educational background and employment**  
13 **experience.**

14 A. I received a Bachelor’s degree in Electro-mechanical Engineering from  
15 Universidad Panamericana (Mexico City, Mexico) in 1995 and a Master of Business  
16 Administration degree from Tulane University in 1998. From 1992 to 1998, I held  
17 several positions with Grupo Bursatil Mexicano (“GBM”), a leading Mexican financial  
18 services and brokerage firm, dealing with money markets, currency exchange, debt  
19 placement, and risk management. In 1998, I joined AmerenEnergy Inc. (“AE”) and  
20 worked as an energy trader of real time energy products before assuming an analytical  
21 support position in the long-term energy market trading area of AE. From 1999 to 2004,  
22 I led the group within AE that provided quantitative analysis for AE’s trading operations.  
23 In 2004, I became responsible for trading operations, including managing the transition to  
24 trading AmerenUE’s power (with AE acting as AmerenUE’s agent) in the Day 2 energy

1 markets started by the Midwest Independent Transmission System Operator, Inc.  
2 (“Midwest ISO”) on April 1, 2005. On December 31, 2006, the Joint Dispatch  
3 Agreement between AmerenUE and AmerenCIPS terminated and as a result, effective  
4 January 1, 2007, AE’s activities were solely related to AmerenUE’s generation asset  
5 management, including the trading and marketing operations. On January 1, 2008,  
6 AmerenUE terminated the agency relationship with AE related to generation asset  
7 management, including the trading and marketing operations. As a result, those AE  
8 employees formerly responsible for these activities, including me, became employees of  
9 AmerenUE. At that time, I assumed my current title, Director, Asset Management and  
10 Trading (“AM&T”) and added the responsibilities of marketing and asset management to  
11 my existing duties.

12 **Q. What are your responsibilities in your current position?**

13 A. As Director of AM&T I manage three specific areas: (i) Real Time  
14 Operations, (ii) Trading, and (iii) Market Origination, providing guidance, oversight and  
15 coordination of activities in these areas. It is my responsibility to ensure a proper balance  
16 of activities between these groups, such that their operations are mutually supportive and  
17 reflect appropriate diversity within the portfolio. Further, I am responsible for staffing,  
18 budgeting, goal setting, management reporting and other administrative tasks associated  
19 with these functions.

20 **Q. What is the role of each of these areas?**

21 A. Real Time Operations is responsible for interactions between the Midwest  
22 ISO and AmerenUE’s plant operators – including (but not limited to), maintenance of

1 asset operating limit data within the Midwest ISO systems, monitoring the AmerenUE  
2 assets and initiating a response to disturbance control standard events.

3 Trading is responsible for the optimization of the AmerenUE generation  
4 assets in the marketplace, consistent with established risk management policies,  
5 applicable laws and regulations, and the associated administrative activities. Trading  
6 activities encompass transactions with a duration of less than one year and that are  
7 generally for fixed quantities, with a wide variety of counterparties, including those  
8 typically characterized as “financial players” (in that they do not own generation  
9 resources and/or are not load serving entities)

10 Market Origination is primarily responsible for the development of long-  
11 term relationships with wholesale entities – primarily load serving entities, including  
12 municipalities, electric cooperatives and other electric utilities - intended to lead to  
13 wholesale transaction opportunities (i.e., purchases and sales for resale). These activities  
14 include the identification of and coordination of appropriate responses to long-term RFPs  
15 issued by various wholesale entities. They also include the proactive solicitation and  
16 presentation of wholesale opportunities to provide balance to AmerenUE’s portfolio via  
17 physical sales of power to counterparties, resulting in long-term revenue stability over  
18 periods of up to five years (or more with senior management approval). The focus of  
19 Market Origination is on transactions which take the form of sales for resale that provide  
20 full or partial requirements service to other load serving entities. Such sales may include  
21 either fixed or variable amounts of energy, capacity, congestion management, and market  
22 administration services.

1   **II. PURPOSE AND SUMMARY OF TESTIMONY**

2           **Q.     What is the purpose of your testimony in this proceeding?**

3           A.     I am providing testimony in support of the level of off-system sales  
4 included in the cost of service utilized for the purpose of setting AmerenUE’s rates. The  
5 level of off-system sales is also a component of the calculation of the net base fuel costs,  
6 or “NBFC,” against which net fuel cost changes are tracked through the Company’s fuel  
7 adjustment clause (“FAC”). The calculation of NBFC is discussed in the direct testimony  
8 of AmerenUE witness Gary S. Weiss.

9           **Q.     Please summarize your testimony and conclusions.**

10          A.     I have determined that at this time the appropriate level of normalized  
11 annual off-system sales revenues to use in determining the Company’s revenue  
12 requirement and to set NBFC in the Company’s FAC is \$320.4 million.<sup>1</sup> It must be  
13 noted that the Company intends to true-up all of the components of NBFC, including off-  
14 system sales revenues, as of the end of the proposed true-up date in this case  
15 (February 28, 2010), which means this amount will change. A similar true-up was  
16 completed in each of the Company’s last two rate cases. The focus of my direct  
17 testimony is on the methodology and source data for the calculation used to determine the  
18 appropriate level of normalized off-system sales revenues based on information available  
19 as of the date this case is being filed. AmerenUE’s off-system sales are driven in large  
20 part by its load-serving obligations to its retail customers, the availability of its generation  
21 resources, and the cost of its generating resources relative to the market prices for energy

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<sup>1</sup> This compares to \$481.8 million included in the Company’s base rates, set earlier this year after the conclusion of Case No. ER-2008-0318. Please note that the off-system sales revenues figures used in my testimony are on a “total company” (retail and wholesale) basis for AmerenUE. The Missouri retail share

1 and services (i.e., capacity and ancillary services). To the extent the level of off-system  
2 sales experienced during the test year is not the result of normal conditions or otherwise  
3 does not properly reflect known and measurable changes, adjustments are necessary, as  
4 outlined in more detail below. AmerenUE incorporated the necessary adjustments in its  
5 PROSYM production cost model (the operation of which is addressed in the direct  
6 testimony of AmerenUE witness Timothy D. Finnell) to determine the normalized level  
7 of the energy component of off-system sales to include in the determination of the  
8 Company's revenue requirement. Using the results obtained from the operation of this  
9 model, and further accounting for the remaining components of off-system sales, which  
10 are described in more detail later in my testimony, I determined the appropriate level of  
11 normalized off-system sales revenues to use in determining the Company's revenue  
12 requirement and to set NBFC in the Company's FAC.

13 **Q. What elements are included in your off-system sales revenue**  
14 **recommendation?**

15 A. In the context of this proceeding, I use the term "off-system sales" in  
16 reference to transactions resulting from AmerenUE's trading activities. The net revenue  
17 from these activities comes from four primary components, as follows: (i) energy sales;  
18 (ii) capacity sales; (iii) ancillary services revenues; (iv) margins associated with Midwest  
19 ISO Revenue Sufficiency Guarantee ("RSG") Make Whole payments; and miscellaneous  
20 Midwest ISO revenues.<sup>2</sup>

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of these figures is lower by approximately 5%, and is accounted for by Mr. Weiss when he applies the Missouri jurisdictional allocation factor in computing the revenue requirement and NBFC.

<sup>2</sup> For example, miscellaneous Midwest ISO revenues result from inadvertent payments received from the Midwest ISO.

1           **Q. Please address your determination of the appropriate level of off-**  
2 **system sales revenue to include in AmerenUE’s revenue requirement and that are**  
3 **used to set the NBFC in the FAC.**

4           A. I have determined that the level of AmerenUE off-system sales revenues  
5 that should be included in AmerenUE’s revenue requirement and used to set NBFC in the  
6 FAC is \$320.4 million per year comprised of the following:

- 7               1) \$299.6 million per year for energy sales (including \$24.8 million  
8                      associated with energy that could have been sold from the Taum  
9                      Sauk Plant had it been available)<sup>3</sup>;
- 10              2) \$12.6 million of capacity sales (including \$3.4 million that could  
11                      have been sold from the Taum Sauk Plant had it been available);
- 12              3) \$5.2 million of ancillary services revenue;
- 13              4) \$2.4 million per year of margins associated with RSG make whole  
14                      payments; and
- 15              5) \$600,000 of miscellaneous Midwest ISO revenues.

16   **III. ENERGY SALES REVENUES**

17           **Q. How did you determine the normalized energy sales revenue for the**  
18 **test year?**

19           A. As previously noted, the normalized energy sales revenue for the test year  
20 was determined by utilizing the Company’s PROSYM production cost model (discussed  
21 in detail in the direct testimony of Mr. Finnell) with inputs adjusted for (i) weather

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<sup>3</sup> As addressed in the direct testimony of AmerenUE witness Lynn M. Barnes, including “as if available” Taum Sauk Plant energy and capacity sales in determining the off-system sales to include in the base revenue requirement and as a part of NBFC will become moot if, as expected, the Taum Sauk Plant returns to service by the time rates to be set in this case take effect.



1 normalization of load; (ii) normalization of generation outages; (iii) normalized fuel  
2 costs, (iv) normalized energy prices and (v) the impact associated with the unavailability  
3 of the Company's Taum Sauk facility

4 **Q. Why was the normalized level of off-system sales of energy**  
5 **determined by modeling rather than utilizing actual test year off-system sales?**

6 A. Modeling was used so that off-system sales reflect a normal year, and no  
7 particular 12-month period reflects a normal year. The test year is affected by its  
8 particular weather, generation outages, fuel costs, transmission constraints, and energy  
9 prices, among many other things. The amount of off-system sales of energy is  
10 determined from the amount of generation that is economically available to produce  
11 energy reduced by that portion of the generation that is utilized to serve load obligations.  
12 In any given year, weather, prices, unit availability and load characteristics vary greatly  
13 from normal. To utilize only actual data from a specific year would fail to account for  
14 this variability in setting the revenue requirement. In order to assure that off-system sales  
15 revenues utilized to determine the cost of service and NBFC are consistent with  
16 normalized conditions, it is necessary to determine the off-system sales based on  
17 production cost modeling using normalized loads and generation rather than relying on  
18 actual test year off-system sales data.

19 Additionally, in order to ensure ratepayers are not impacted by the failure  
20 of the Taum Sauk Plant, it is necessary to model the overall system including Taum Sauk  
21 generation that was unavailable during the test year. Inclusion of Taum Sauk generation  
22 with normalized generation outages, weather normalized loads, normalized fuel costs,

1 and normalized market prices provides the appropriate level of off-system sales for the  
2 test year.

3 **Q. How are off-system sales of energy derived from the PROSYM**  
4 **model's output?**

5 A. PROSYM has the ability to simulate AmerenUE's interactions with the  
6 market. The model utilizes the inputs described earlier in my testimony to simulate the  
7 dispatch of AmerenUE's system by utilizing the lowest cost resources to meet the hourly  
8 load and operating reserve requirements. As part of its hourly dispatch, the model  
9 identifies opportunities for off-system sales based on the generation that is not being  
10 utilized to serve native load that has dispatch costs below the hourly market price. The  
11 model also identifies opportunities to buy from the market to reduce the cost to serve  
12 native load and offset AmerenUE's generation costs. The simulated off-system sales  
13 revenues are determined based on the hourly market price achieved for the megawatt-  
14 hours ("MWh") that are sold to the market.

15 **Q. What market prices for energy were utilized to determine the off-**  
16 **system sales and economic purchases?**

17 A. Mr. Finnell included an energy price in his PROSYM modeling of \$37.05  
18 per MWh, which is an average based upon energy prices for the 36 month period ending  
19 with the anticipated true-up cutoff date in this case, February 28, 2010. The energy  
20 prices for the 36-month period are actual market energy prices received at AmerenUE's  
21 generating units (i.e., the locational marginal prices ("LMPs") in the Midwest ISO energy  
22 markets actually received by AmerenUE at each "node" applicable to each generating  
23 plant) during the 27-month period through May 2009, plus around-the-clock ("ATC")

1 basis-adjusted forward energy prices for the nine-month period June 2009 through  
2 February 2010.<sup>4</sup>

3 **Q. Please explain why you chose to utilize three years of energy price**  
4 **data.**

5 A. I believe that I achieve a better normalization of prices by extending the  
6 period for which historical prices were used to calculate the average price of \$37.05 per  
7 MWh to three years. The Midwest ISO Day 2 energy markets started on April 1, 2005.  
8 During the start-up of the market (i.e., during the first several months of the market), we  
9 observed certain inefficiencies in the markets, as one might expect. These market start-  
10 up issues, coupled with the extremely severe hurricanes in 2005 (Katrina and Ivan)  
11 together with the major coal disruptions in 2005 created significant market distortions.  
12 This is why AmerenUE witness Shawn E. Schukar used just two years of price data to  
13 calculate off-system sales revenues in the Company's last rate case. However, as of the  
14 time of the filing of this case, we have available more than two years of data in a market  
15 unaffected by these distortions and, by the expected true-up cutoff date, 36 months of  
16 actual LMP data from AmerenUE's generators will be available. Using a longer 36-  
17 month period, now that it is possible to do so, helps mitigate some of the variation in  
18 prices and some of the market volatility inherent in energy markets so as to arrive at a  
19 more reliable normalized energy price. As Mr. Schukar explained in his testimony filed  
20 in AmerenUE's last rate case, utilizing more than one year of LMPs – in this case three

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<sup>4</sup> These forward energy prices are taken from a combination of broker quotes and published data for trading activity at the Cinergy Hub, a well-recognized Midwest energy trading market. The forward energy prices were adjusted for the basis differential that exists between prices at the location of the Cinergy Hub and the prices that are actually realized at the AmerenUE generating units.

1 years – minimizes the impact of warmer than normal or cooler than normal conditions on  
2 energy prices within the Midwest ISO footprint.

3           It is also important that the averaging of the energy prices occur on a  
4 monthly basis because of the different effects that warmer (or cooler) weather can have  
5 on prices for different periods of the year. For example, everything else held constant,  
6 LMPs would be expected to be lower if January temperatures are warmer than normal,  
7 but higher if August temperatures are warmer than normal. See Schedule JH-E1 for a  
8 comparison of monthly energy prices at AmerenUE’s generating units from 2007 to  
9 2009, which demonstrates just how variable monthly energy prices for the same month in  
10 different years can be.

11           Finally, the use of multiple years provides an averaging effect associated  
12 with the impact of generation and transmission system outages. Transmission and  
13 generation outages can impact the congestion component of the LMPs at the AmerenUE  
14 generation nodes. By utilizing multiple years of price data, unusual effects of  
15 transmission and generation outages in any given year on the AmerenUE generator node  
16 LMPs (both positive and negative) can be limited.

17           **Q. You noted the variability of monthly energy prices depicted on**  
18 **Schedule JH-E1. Please elaborate on what you’ve seen in recent periods regarding**  
19 **energy prices.**

20           A. Looking further at Schedule JH-E1 and also at Schedule JH-E2, one  
21 obvious observation is that power prices are highly volatile. This volatility (which I  
22 earlier called variability) is an important reason we use normalized power prices when  
23 setting rates. But another striking observation that can be made from Schedule JH-E2 is

1 the precipitous drop in power prices we have seen since the end of the true-up cutoff date  
2 (September 30, 2008) in the Company's last rate case.

3 The 12-month average of around-the-clock power prices through May  
4 2009 (the last month actual data used in calculating my three-year average of energy  
5 prices) has dropped approximately 25% since the 12-month period ending September  
6 2008. Moreover, the 12-month average around-the-clock price (based on available actual  
7 data and forward prices through the end of the proposed true-up period in this case) is  
8 expected to be down approximately 40% from the 12-month period ending September  
9 2008.

10 **Q. How do these very substantial reductions in energy prices compare to**  
11 **the normalized energy price you are using in this case?**

12 A. The energy price I am using is very conservative in the ratepayers' favor  
13 compared to current and currently expected market conditions. The energy price I am  
14 using reflects only an approximately 20% drop in power prices since the 12-month period  
15 ending with the true-up cutoff date in the last case, September, 2008 (versus, as noted, the  
16 25% drop that has actually been experienced since that time). This is also shown in  
17 Schedule JH-E2, which charts the three-year average of monthly energy prices I am using  
18 (red line) to actual monthly averages from March 2007 through May 2009 and forward  
19 prices through February, 2010.

20 **IV. CAPACITY SALES REVENUES**

21 **Q. What is the level of capacity sales revenues on an annual basis that**  
22 **you determined was appropriate to include in total off-system sales?**

1           A.     I determined that \$12.6 million is the appropriate amount to include as  
2 capacity sales revenue in total off-system sales. The amount of capacity sales for the test  
3 year ending March 31, 2009 was \$8.1 million (excluding estimated lost capacity sales  
4 from the Taum Sauk Plant). However, the test year level of capacity sales is not  
5 representative of normal conditions on a going-forward basis because of certain known  
6 and measurable changes that are occurring.

7           **Q.     What are those changes?**

8           A.     The main change is the August 31, 2009 expiration of the Company's  
9 longstanding purchased power contract with Arkansas Power & Light Company. This is  
10 a known and measurable change that will occur prior to the proposed true-up cutoff date  
11 in this case. When that contract expires, 145 megawatts ("MW") of capacity available  
12 during the test year will no longer exist, which will reduce capacity available for sale  
13 when rates from this case take effect. In addition, the load of AmerenUE's largest  
14 customer, Noranda Aluminum, Inc. ("Noranda") was down substantially for part of the  
15 test year due to the devastating ice storm that hit Southeast Missouri in January, 2009.  
16 The revenue requirement in this case is based upon Noranda's operations at full load, as  
17 discussed by AmerenUE witness Wilbon L. Cooper in his direct testimony. Under those  
18 circumstances, the additional capacity sales made during the test year as a result of  
19 Noranda's reduction in load will not be possible. Consequently, I have taken these two  
20 changes into account in developing my recommendation for a normalized level of  
21 capacity sales in this case.

22           **Q.     What level of capacity sales are you recommending?**

1           A.     Based upon the above-described adjustments to known capacity sales for  
2 delivery for the period March, 2009 – February, 2010, (as of June 2009), I recommend a  
3 non-Taum Sauk-related capacity sales level of \$9.2 million be included in the revenue  
4 requirement and be used in calculating the NBFC against which changes in net fuel costs  
5 are tracked in the FAC. I also recommend an additional \$3.4 million of Taum Sauk-  
6 related capacity sales be included.

7           **Q.     How were the capacity sales opportunities associated with the**  
8 **unavailability of the Taum Sauk Plant determined?**

9           A.     If the Taum Sauk Plant had not failed, the capacity associated with the  
10 facility would have been available for sale during the whole test year period – other than  
11 periods of normally scheduled maintenance. However, it must be recognized that the  
12 mere availability of such capacity for sale does not in and of itself indicate that such  
13 capacity could have been sold during all months of the test year. In fact, the only time  
14 when there would have been an opportunity for incremental capacity sales resulting from  
15 the availability of the Taum Sauk Plant during the test year was during those months  
16 when AmerenUE did not have remaining excess capacity after its capacity sales efforts.

17                   The only periods for which AmerenUE essentially sold all of the available  
18 excess capacity was during the summer months of June, July, August and September.  
19 Based on the Ameren Illinois Utilities' RFP results published by the Illinois Commerce  
20 Commission, the price associated with this lost opportunity was an average of \$2.00 per  
21 kilowatt ("kW")-month. The most additional capacity revenue that AmerenUE could  
22 have achieved from sales of Taum Sauk capacity was the capacity of the plant available  
23 for sale (429 MW) multiplied by the \$2.00 per kW-month for the four month period.

1 This results in \$3.4 million, which was added to the actual capacity sales to reach total  
2 capacity sales of \$12.6 million.

3 **Q. Please explain why you only utilize 429 MW of capacity for Taum**  
4 **Sauk in your calculation, rather than the 440 MW, which is the nominal capacity of**  
5 **the Taum Sauk Plant.**

6 A. The Midwest ISO determined Taum Sauk's "unforced" capacity to be 429  
7 MWs, and this is the only amount of capacity that AmerenUE is permitted to sell from  
8 the plant. Beginning June, 2009, the Midwest ISO implemented changes to Module E of  
9 its Energy Markets Tariff. Module E prescribes how capacity resources are accounted for  
10 in the reliability reporting process. As part of implementing these Module E changes, the  
11 Midwest ISO specified the unforced capacity ("UCAP") equivalent rating of the  
12 generation resources of each market participant. Those UCAP ratings are required by  
13 Module E to be utilized in the reliability reporting process. Accordingly, the Midwest  
14 ISO only provides and AmerenUE could only count the assigned UCAP value for the  
15 Taum Sauk Plant, had it been available. That amount, as determined by the Midwest ISO  
16 is 214.5 MW per individual unit, or a total of 429 MWs for the two combined Taum Sauk  
17 units. Consequently, the most capacity the Company can attempt to sell from the Taum  
18 Sauk Plant is 429 MWs.

19 **V. ANCILLARY SERVICES REVENUES**

20 **Q. How did you determine the appropriate amount of ancillary services**  
21 **revenues?**

22 A. I determined this amount by extrapolating the prices and volumes  
23 experienced since the new Midwest ISO Ancillary Services Market ("ASM") started.



1           **Q.     What level of annual ancillary services revenue did you determine was**  
2 **appropriate to include in total off-system sales?**

3           A.     The amount of annual ancillary services revenues that I recommend be  
4 included in the revenue requirement and in the NBFC is \$5.2 million. This is based upon  
5 year-to-date (through May 31, 2009) ASM revenues received by AmerenUE, and  
6 forecasted data for June to December 2009.

7           **Q.     Please describe the new ASM market.**

8           A.     On January 6, 2009, the Midwest ISO started “Day-3” operations, which  
9 means that the Midwest ISO now has real time and day-ahead energy markets and an  
10 ASM. AmerenUE has participated in this market to acquire ancillary services for its  
11 retail load, and to sell the services from its generation. Since this is an entirely new  
12 market, I utilized the existing data for the period when the market has been in operation,  
13 and simply extrapolated that result through the end of 2009, to provide this initial  
14 estimate. As with other components of total off-system sales, AmerenUE expects to true-  
15 up these values as of February 28, 2010.

16           **VI. REVENUE SUFFICIENCY GUARANTEE MAKE WHOLE PAYMENTS**

17           **Q.     What level of Revenue Sufficiency Guarantee Make Whole Payment**  
18 **related margins did you determine appropriate to include in off-system sales?**

19           A.     I included \$2.4 million per year of margins associated with RSG  
20 payments.

21           **Q.     Can you describe Revenue Sufficiency Guarantee Make Whole**  
22 **Payments (“RSG MWP”)?**

1           A.     Yes.   RSG MWP are payments that the Midwest ISO provides to  
2 generators when the revenues from LMPs are not enough to compensate a generator for  
3 the cost incurred to run its generating unit. For example, if the Midwest ISO requests a  
4 generator to run for reliability reasons, and the start-up, no-load, and fuel costs add up to  
5 more than what the generator will receive from the LMP, an RSG MWP will be required.

6           **Q.     Why shouldn't the Company include the totality of the RSG MWP**  
7 **received as an offset to the revenue requirement?**

8           A.     Because the RSG MWP is intended to offset costs incurred that are not  
9 otherwise recovered from LMPs. Consequently, the Company should only credit the  
10 margins on RSG MWP; i.e., the amount by which revenues from RSG MWP exceeds the  
11 incurred costs.

12          **Q.     Does this conclude your direct testimony?**

13          A.     Yes, it does.

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

In the Matter of Union Electric Company	)	
d/b/a AmerenUE for Authority to File	)	
Tariffs Increasing Rates for Electric	)	Case No. ER-2010-
Service Provided to Customers	)	
In the Company's Missouri Service Area.	)	

**AFFIDAVIT OF JAIME HARO**

**STATE OF MISSOURI** )  
  ) **ss**  
**CITY OF ST. LOUIS** )

Jaime Haro, being first duly sworn on his oath, states:

1. My name is Jaime Haro. I work in the City of St. Louis, Missouri, and I am employed by Union Electric Company d/b/a AmerenUE as Director, Asset Management and Trading.

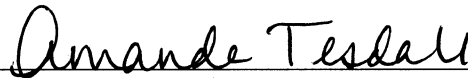
2. Attached hereto and made a part hereof for all purposes is my Direct Testimony on behalf of Union Electric Company d/b/a AmerenUE consisting of 16 pages, and Schedule JH-E1 through JH-E2, all of which have been prepared in written form for introduction into evidence in the above-referenced docket.

3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct.



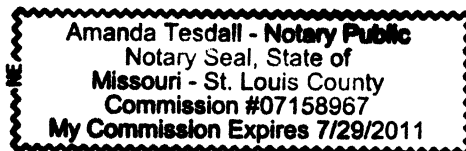
\_\_\_\_\_  
Jaime Haro

Subscribed and sworn to before me this 24<sup>th</sup> day of July, 2009.

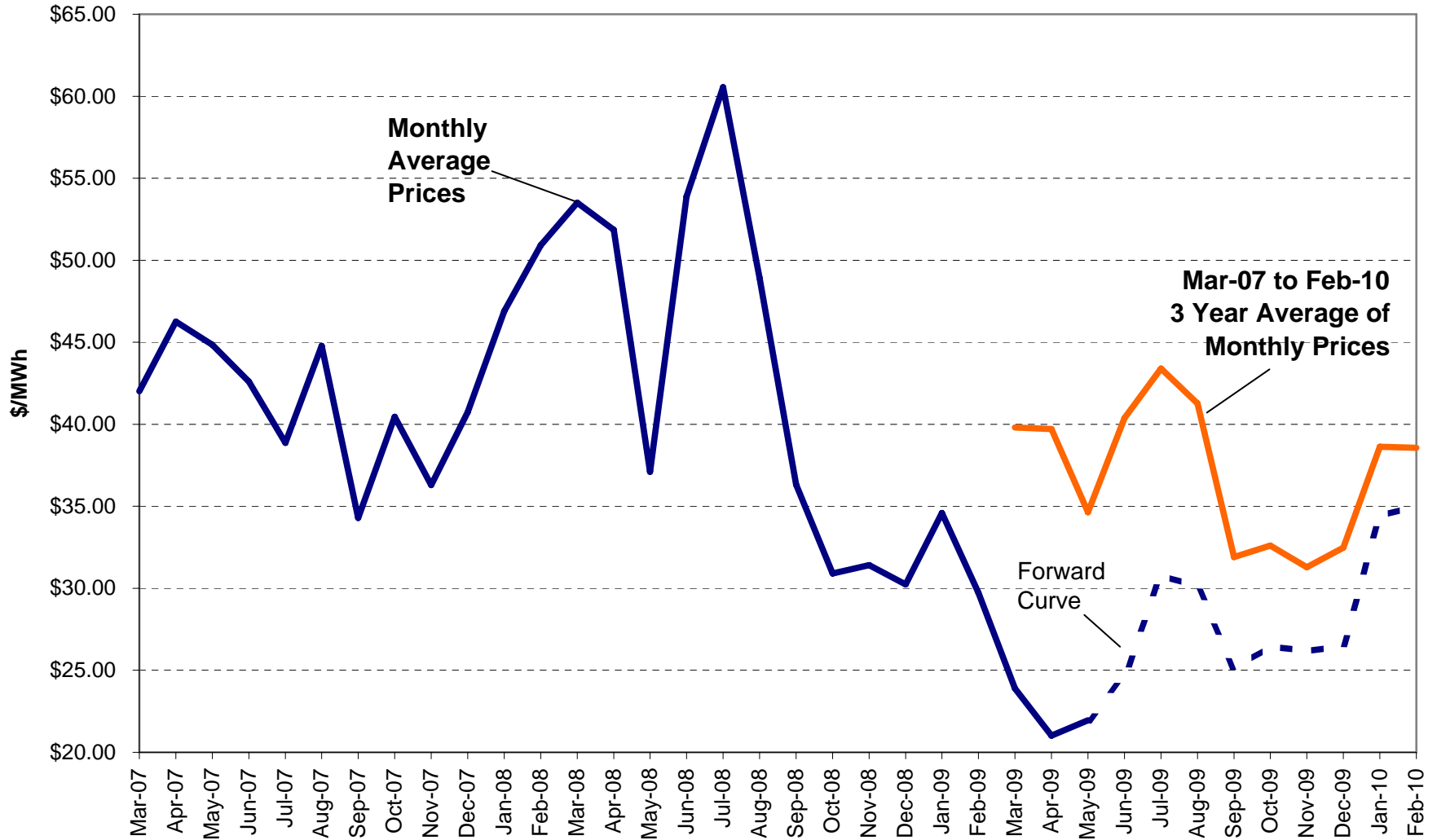


\_\_\_\_\_  
Notary Public

My commission expires:



**Monthly Average Day-Ahead Prices for AmerenUE**  
 (Around-the-Clock Averages for MOGEN)



**Monthly Average Day-Ahead Prices for AmerenUE**  
 (Around-the-Clock Averages for MOGEN)

