

Exhibit No	
Witness	Maurice Brubaker
Type of Exhibit	Direct Testimony
Issues	Cost of Service, Revenue Allocation, and Rate Design (Part 2 Fuel Adjustment Clause)
Sponsoring Party	Missouri Industrial Energy Consumers
Case No	ER-2008-0318

**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 Service Provided to Customers  
in the Company's Missouri Service Area.

Case No. ER-2008-0318

Direct Testimony and Schedules of

**Maurice Brubaker**

on Cost of Service, Revenue  
Allocation and Rate Design

(Part 2. Fuel Adjustment Clause)

On Behalf of

**Missouri Industrial Energy Consumers**

**BAI**  
BRUBAKER & ASSOCIATES, INC.  
ST LOUIS MO 63141-2000

Project 8983  
September 11, 2008

MIEL Exhibit No. 607  
Case No(s) ER-2008-0318  
Date 12-11-08 RptrKF

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STATE OF MISSOURI )  
COUNTY OF ST. LOUIS )

SS


**Affidavit of Maurice Brubaker**

Maurice Brubaker, being first duly sworn, on his oath states

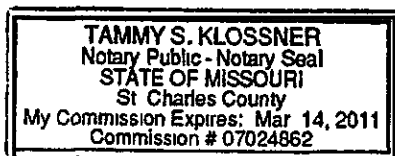
1 My name is Maurice Brubaker I am a consultant with Brubaker & Associates, Inc., having its principal place of business at 1215 Fern Ridge Parkway, Suite 208, St. Louis, Missouri 63141-2000 We have been retained by the Missouri Industrial Energy Consumers in this proceeding on their behalf

2 Attached hereto and made a part hereof for all purposes is my direct testimony and schedules which were prepared in written form for introduction into evidence in Missouri Public Service Commission Case No. ER-2008-0318

3 I hereby swear and affirm that the testimony and schedules are true and correct and that they show the matters and things that they purport to show

  
Maurice Brubaker

Subscribed and sworn to before me this 10<sup>th</sup> day of September, 2008



  
Notary Public

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**Case No. ER-2008-0318**

**Direct Testimony of Maurice Brubaker**

1    **Q     PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2    A     Maurice Brubaker   My business address is 1215 Fern Ridge Parkway, Suite 208,  
3           St Louis, Missouri 63141-2000

4    **Q     WHAT IS YOUR OCCUPATION?**

5    A     I am a consultant in the field of public utility regulation and president of Brubaker &  
6           Associates, Inc , energy, economic and regulatory consultants

7    **Q     PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.**

8    A     This information is included in Appendix A to my direct testimony on revenue  
9           requirement issues

10   **Q     ON WHOSE BEHALF ARE YOU PRESENTING THIS DIRECT TESTIMONY ON**  
11       **FUEL ADJUSTMENT CLAUSE AND RATE DESIGN ISSUES?**

12   A     This testimony is presented on behalf of the Missouri Industrial Energy Consumers  
13       (MIEC)   I am simultaneously submitting a separate volume of testimony which

**Maurice Brubaker  
Page 1**

**BRUBAKER & ASSOCIATES, INC**

1 addresses cost of service, revenue allocation and rate design other than the fuel  
2 adjustment clause, which is the subject of this volume

3 **INTRODUCTION AND SUMMARY**

4 **Q WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

5 A The purpose of this testimony is to address fuel adjustment clause (FAC) issues for  
6 AmerenUE

7 **Q PLEASE SUMMARIZE YOUR TESTIMONY AND RECOMMENDATIONS.**

8 A My testimony and recommendations may be summarized as follows

9 1 It is important to have an incentive in a fuel adjustment clause in order to better  
10 align the interests of customers and stockholders. If any FAC is approved for  
11 AmerenUE, it should contain a meaningful incentive

12 2 AmerenUE has proposed an incentive in the form of a 95% pass-through of  
13 changes to customers, with stockholders only retaining 5%

14 3 AmerenUE's proposed 95% / 5% recovery clause provides weak and inadequate  
15 incentives

16 4 My testimony develops and illustrates the impact of a more meaningful sharing  
17 percentage for AmerenUE. Specifically, I recommend that the mechanism be  
18 80% to customers and 20% to stockholders if an FAC is adopted

19 5 An 80% / 20% clause provides much more meaningful incentives to AmerenUE

20 6 In order to limit financial impact, it is reasonable to cap the annual retention of  
21 increases or decreases in net fuel costs to \$25 million. This equates to  
22 approximately  $\pm 50$  basis points return on equity for AmerenUE

23 7 My Schedule MEB-FAC-2 contrasts the key cost and financial parameters of  
24 AmerenUE with those of Aquila and Empire District Electric Company. These  
25 comparisons clearly show that variations in fuel cost have a smaller impact on  
26 AmerenUE than on the other two utilities, and that a larger retention percentage  
27 (i.e., 20% instead of 5%) is appropriate for AmerenUE

28 8 Any FAC for AmerenUE should be structured along the lines proposed by  
29 AmerenUE. This structure includes all eligible fuel and purchased power expense  
30 associated both with native load sales and with off-system sales, and subtracts  
31 100% of the revenues from the off-system sales to determine the base fuel cost

1 9 This structure of the FAC minimizes the risk of misallocations of costs between  
2 customers and stockholders, and allows the full benefit of off-system sales to flow  
3 through to customers

4 **ADJUSTMENT FOR CHANGES IN THE LEVEL**  
5 **OF FUEL AND PURCHASED POWER COSTS**

6 **Q ARE YOU FAMILIAR WITH AMERENUE'S PROPOSAL TO IMPLEMENT AN FAC?**

7 A Yes, I am AmerenUE proposes to implement an FAC which would track increases  
8 and decreases in the level of variable fuel and purchased power expenses, net of  
9 off-system sales, allocated to Missouri retail customers, as well as changes in certain  
10 fixed cost items

11 **Q PUTTING ASIDE THE QUESTION OF WHETHER OR NOT AMERENUE SHOULD**  
12 **BE ALLOWED TO IMPLEMENT AN FAC, ARE THERE ASPECTS OF ITS**  
13 **PROPOSED FAC TO WHICH YOU TAKE EXCEPTION?**

14 A Yes While I have concerns about some of the items AmerenUE proposes to track  
15 through the FAC, my most important issue is with the level of sharing of deviations in  
16 net fuel costs between customers and stockholders I believe that the proposal to  
17 implement a 95% customer / 5% stockholder sharing mechanism for deviations from  
18 base costs does not provide adequate incentives to AmerenUE

19 **AmerenUE's Proposed Sharing Mechanism**  
20 **Does Not Provide Adequate Incentives**

21 **Q WHAT HAS AMERENUE PROPOSED FOR THE SHARING MECHANISM?**

22 A Under the structure of AmerenUE's FAC, when the cost of fuel and purchased power  
23 that is built into base rates is different than the actual cost of fuel and purchased

1 power experienced in a subsequent period, Missouri retail customers would be  
2 responsible for 95% of such variations, while AmerenUE would retain only 5%

3 **Q HAS THE COMPANY PROVIDED ADEQUATE JUSTIFICATION FOR ITS**  
4 **PROPOSAL TO PASS ALONG TO CUSTOMERS 95% OF THE DIFFERENCE**  
5 **BETWEEN ACTUAL FUEL-RELATED COSTS AND BASE FUEL-RELATED**  
6 **COSTS?**

7 A No As AmerenUE witness Lyons stated at page 6 of his direct testimony, the  
8 95% / 5% structure is simply based on the outcome of a recent Aquila Networks,  
9 Missouri PSC Rate Order (Case No ER-2007-0004), and not an analysis of the  
10 incentives present in this mechanism or the impact on the utility's return on equity of  
11 the proposed sharing of the deviations in the level of fuel and purchased power costs  
12 from the base

13 **Q WERE YOU INVOLVED IN THE REFERENCED AQUILA NETWORKS RATE**  
14 **PROCEEDING, CASE NO. ER-2007-0004?**

15 A Yes I was a witness in that proceeding, and addressed fuel and purchased power  
16 issues and the appropriate voltage-related loss factors to be included in the FAC  
17 Although I did not testify with respect to the cost sharing feature of the FAC, I am  
18 familiar with the positions of the parties

19 **Q IN THE AQUILA CASE, DID THE COMMISSION EXPLAIN WHY IT ADOPTED A**  
20 **95% COST RECOVERY STRUCTURE?**

21 A Not explicitly In its Order, the Commission does not reveal how the 95% / 5%  
22 sharing formula was derived The Commission did note that it is important for an FAC  
23 to have incentives for the utility to manage its fuel and purchased power costs In

1 particular, the Commission said the following at page 53 of its May 17, 2007 Report  
2 and Order

3 "While the Commission believes Aquila should be given the  
4 opportunity to recover its prudently incurred fuel costs, it also agrees  
5 with Mr Johnstone and Ms Brockway that 1) after-the-fact prudence  
6 reviews alone are insufficient to assure Aquila will continue to take  
7 reasonable steps to keep its fuel and purchased power costs down,  
8 and 2) the easiest way to ensure a utility retains the incentive to keep  
9 fuel and purchased power costs down is to allow less than 100% pass  
10 through of those costs Accordingly, it is not appropriate to allow  
11 Aquila to pass 100% of its fuel and purchased power costs, above  
12 those included in its base rates, through its fuel adjustment clause "  
13 [Footnote omitted ]

14 **Q WHAT POSITIONS WERE ASSERTED BY THE PARTIES IN THE CASE?**

15 A Aquila contended for 100% pass through of increases and decreases in costs The  
16 Industrials and AARP proposed a 50% sharing of deviations in fuel and purchased  
17 power costs The Commission found that full cost recovery was not appropriate  
18 because it did not provide adequate incentives for the utility to manage its costs It  
19 also found that only 50% recovery of deviations was inappropriate because of the  
20 large financial exposure the utility would have to increased costs

21 The 95% / 5% sharing arrangement is not a proposal that was made by any  
22 party to the proceeding

23 **Q DID THE COMMISSION ALSO ADOPT THIS 95% / 5% SHARING FORMULA IN**  
24 **THE EMPIRE DISTRICT ELECTRIC COMPANY RATE CASE, CASE NO.**  
25 **ER-2008-0093?**

26 A Yes, it did

1 Q IN THAT ORDER, DID THE COMMISSION ANALYZE THE EFFECT OF THE  
2 95% / 5% SHARING MECHANISM, OR EXPLAIN WHY THAT PARTICULAR  
3 SHARING WAS APPROPRIATE?

4 A No, it did not

5 Q HAVE YOU ANALYZED THE IMPACT ON AMERENUE OF ITS PROPOSED  
6 95% / 5% SHARING MECHANISM?

7 A Yes This is summarized on Schedule MEB-FAC-1 attached to my testimony

8 Q PLEASE EXPLAIN THIS SCHEDULE.

9 A The purpose of this schedule is to show the impact that a change in fuel cost has on  
10 AmerenUE absent any fuel adjustment, and then to show the impact assuming  
11 various percentages of sharing or retention

12 The base fuel cost in this illustration is \$360 million, which is the net fuel cost  
13 (fuel and purchased power expense minus revenues from off-system sales)  
14 contained in Mr Weiss's updated testimony, and which forms the basis for the base  
15 point in the fuel adjustment clause sponsored by Mr Lyons Column 1 shows the  
16 percentage change in fuel cost Column 2 shows the dollar change in fuel cost as a  
17 result of the percentage change shown in Column 1 Column 3 shows the effect  
18 after-tax, in other words, the impact on earnings Column 4 translates the after-tax  
19 dollar change into the number of basis points change in return on equity (ROE) to  
20 AmerenUE if the change is uncompensated by operation of an FAC Columns 5  
21 through 8 show the impact on AmerenUE's ROE for various percentages of sharing  
22 or retention periods Column 5, which illustrates the 5% retention, is the impact and  
23 effect under the 95% / 5% proposal that AmerenUE has made Line 1 shows that if



1 fuel costs increase by 5% and the sharing mechanism was 95% / 5%, the impact on  
2 ROE would be 1.8 basis points

3 The other lines on Schedule MEB-FAC-1 present the same information  
4 assuming different percentage changes in base fuel cost (It is important to note that  
5 while I have presented these as an increase in cost, the illustration would be perfectly  
6 symmetrical and the results for a decrease in cost would be the mirror image ) Line 6  
7 shows that even at a 35% change in base fuel cost with AmerenUE's proposed 95% /  
8 5% sharing that the impact on AmerenUE's ROE would only be about 13 basis  
9 points These are truly very minor impacts and serve to illustrate how weak the price  
10 signal and incentives are in the 95% / 5% proposal

11 **Q WHAT OTHER SHARING PERCENTAGES ARE ILLUSTRATED ON YOUR**  
12 **SCHEDULE?**

13 **A** I have also illustrated retention percentages of 10%, 20% and 25%

14 **An Alternative Sharing Mechanism That**  
15 **Contains Meaningful Incentives Should Be Adopted**

16 **Q IF AN FAC IS IMPLEMENTED IN THIS PROCEEDING, SHOULD IT CONTAIN A**  
17 **PROVISION THAT PASSES THROUGH TO CUSTOMERS 95% OF ANY**  
18 **CHANGES IN THE LEVEL OF COSTS?**

19 **A** No It is important that any adjustment mechanism implemented provide greater  
20 incentives for the utility to control costs and take other actions which will reduce the  
21 level of charges to customers As developed above, even a fairly significant 35%  
22 deviation in the overall cost of fuel and purchased power from the base results in only  
23 minor consequences to the utility – either negative or positive, depending upon  
24 whether costs go up or costs go down

1                   A sharing mechanism which would provide greater incentives to the utility  
2                   would be more appropriate

3    **Q       WHY IS A MEANINGFUL SHARING MECHANISM APPROPRIATE?**

4    A       A meaningful sharing mechanism provides an incentive for the utility to manage and  
5           control its costs. If costs were simply passed through or if the sharing percentage  
6           were minimal (i.e., 5%) then the price signal to the utility is very weak. The price  
7           signal needs to be strong enough to be meaningful.

8    **Q       CAN A UTILITY REALLY INFLUENCE ITS NET FUEL COSTS?**

9    A       Yes. There are many factors that influence the level of fuel and purchased power  
10           costs. Some of these are: (1) the skill of the utility in negotiating its fuel and  
11           purchased power contracts, (2) the skill of the utility in taking advantage of purchases  
12           and sales in the economy market, (3) the skill and diligence of a utility in maintaining  
13           its generation facilities and in restoring efficient units to service after unexpected  
14           outages, (4) the skill of the utility in planning its maintenance outages, (5) the skill and  
15           success of the utility in hedging transactions for its fuel supplies, and (6) the  
16           management decisions regarding the type, size and timing of facilities added to the  
17           utility's generation portfolio. Clearly, there are many factors that influence the  
18           ultimate level of fuel costs incurred by a utility. Certainly, there are factors beyond the  
19           control of the utility, but there are many factors that the utility can manage. It is these  
20           factors that are targeted by the incentive considerations of my proposed fuel  
21           adjustment clause.

22   **Q       DO YOU HAVE A SPECIFIC PROPOSAL?**

23   A       Yes, I do.

1    **Q     PLEASE ELABORATE ON YOUR PROPOSAL.**

2    A     I propose an 80% / 20% sharing mechanism. This will provide a more meaningful  
3           incentive for AmerenUE by having a more reasonable, but moderate, impact from  
4           increases in net fuel cost. At the same time, to the extent that net fuel costs  
5           decrease, AmerenUE has the opportunity to retain a larger percentage with the  
6           benefits that are created as a result of the reduction in net fuel cost.

7           Referring again to Schedule MEB-FAC-1, at a 25% change in fuel cost, the  
8           impact that a 20% retention would have on AmerenUE's ROE is 36 basis points. As  
9           expected, this is approximately four times the almost negligible 9 basis point impact of  
10          AmerenUE's weak 95% / 5% proposal.

11   **Q     WOULD YOU PLACE ANY CAP OR LIMIT ON THE AMOUNT OF RETENTION?**

12   A     Yes. In order to protect the utility from too large of a financial impact, I would cap the  
13          sharing mechanism if it reached the point where the impact on ROE was  
14          approximately 50 basis points. It is not unreasonable to have some cap on the level  
15          of sharing in order to protect AmerenUE from too large of a financial impact should  
16          costs increase dramatically. Concern about the financial impact on a utility of a large  
17          increase on fuel cost was noted by the Commission in the Aquila case. My proposal  
18          addresses that concern by explicitly limiting the amount of stockholder exposure. Of  
19          course, in return for this cap there would be a symmetrical floor on the decrease side  
20          to allow customers to receive the majority of the benefits if costs were to decrease  
21          significantly. This  $\pm 50$  basis points generally reflects the width of the range of Mr.  
22          Gorman's return on equity recommendations, so variations of this magnitude should  
23          not be viewed as having an excessive financial impact.

24          My sharing mechanism better aligns the interests of the utility with those of its  
25          customers. By virtue of the sharing mechanism, the utility experiences a negative

1 impact if fuel costs rise, but experiences a positive impact if it is able to control and  
2 manage fuel costs to a lower level. This incentive would not be present if there were  
3 a full pass through, and is barely noticeable in AmerenUE's proposed 95% / 5%  
4 sharing mechanism.

5 This alignment of interests makes it more likely that the utility will be  
6 concerned about its fuel and purchased power costs, and that it will attempt to  
7 improve upon price offers and maintenance practices, as well as take other actions  
8 that allow it to achieve greater efficiencies and lower costs.

9 **Q PLEASE EXPLAIN WHY YOU ARE MAKING THIS SPECIFIC PROPOSAL.**

10 A I believe it is important that the utility have an incentive to control costs and to  
11 perform in a superior manner. Allowing the utility to share in the benefits of such  
12 performance, and requiring it also to share in the consequences of performance that  
13 results in higher costs to customers, gives the utility the proper incentive.

14 Under this form of the fuel clause, if the utility reduces its costs it can reap  
15 some of the rewards of its performance. Both customers and shareholders are  
16 beneficiaries under such circumstances. Similar incentives exist under circumstances  
17 of increasing costs. In other words, it is a symmetrical incentive.

18 **Q HOW WOULD YOU TRANSLATE THIS  $\pm 50$  BASIS POINT LIMITATION INTO THE**  
19 **FAC?**

20 A Based on the rate base proposed by AmerenUE in this case, and its proposed capital  
21 structure, a \$25 million retention of costs equals \$15 million after income taxes, which  
22 equates to an impact on return on equity of approximately  $\pm 50$  basis points.

1           As can be seen from Schedule MEB-FAC-1, line 6 of Column 7, with an  
2           80% / 20% sharing mechanism the 50 basis point deviation occurs at approximately a  
3           35% departure in the level of fuel costs from the base fuel cost

4   **Q   WHEN WOULD THIS NUMBER BE DETERMINED?**

5   A   It would be determined at the time the Commission issues its order in this case. If the  
6       Commission chose to adopt my  $\pm 50$  basis points return on equity, but found a  
7       different rate base or capital structure, the dollar equivalent of  $\pm 50$  basis points can  
8       easily be recalculated. If the Commission were to determine that  $\pm 50$  basis points did  
9       not provide an adequate incentive, then it could recalculate a number comparable to  
10      the \$25 million by adopting a different variation in ROE along with the capital  
11      structure and rate base that it found appropriate

12   **Q   IF THE COMMISSION FINDS A DIFFERENT RETURN ON EQUITY FOR**  
13       **AMERENUE THAN HAS BEEN PROPOSED BY AMERENUE OR ANY OF THE**  
14       **OTHER PARTIES, WOULD THIS NUMBER HAVE TO BE RECALCULATED?**

15   A   No. This number is completely independent of the specific level of ROE found  
16       appropriate. It is strictly the amount of dollars that equates to a  $\pm 50$  basis point  
17       impact on equity return. Accordingly, the only two variables are rate base and capital  
18       structure

19   **Q   DOES YOUR METHOD REQUIRE ONGOING MEASUREMENT OF THE ACTUAL**  
20       **RETURN ON EQUITY?**

21   A   No. There is no ongoing requirement to redetermine actual earned return on equity.  
22       I have used the illustrative  $\pm 50$  basis points along with other parameters of  
23       AmerenUE's filing in order to establish a reasonable sharing. The actual earned ROE

1 in between rate cases is not relevant to this FAC structure or amount of permissible  
2 fuel adjustment, and need not be calculated

3 **Q PLEASE EXPLAIN HOW THIS SHARING MECHANISM WOULD BE**  
4 **ADMINISTRATED IN THE CONTEXT OF THE FUEL FILINGS.**

5 A The sharing is expressed on an annual basis In the context of the filing frequently  
6 proposed by AmerenUE, 33 3% of the sharing would be allocated to each period for  
7 purposes of the three annual filings proposed by AmerenUE At the end of each  
8 12-month period, the sharing would be applied on an annual basis and reconciled  
9 against the amounts applied on an interim basis

10 **Q THE COMMISSION HAS PREVIOUSLY APPROVED A 95% / 5% SHARING**  
11 **MECHANISM BOTH FOR AQUILA AND EMPIRE DISTRICT ELECTRIC**  
12 **COMPANY. ARE THERE DIFFERENCES BETWEEN AMERENUE AND THESE**  
13 **OTHER COMPANIES THAT WOULD JUSTIFY A DIFFERENT SHARING**  
14 **PERCENTAGE?**

15 A Yes The level of net fuel cost as well as the relationship between net fuel cost and  
16 ROE is much different for AmerenUE than for Aquila and for Empire

17 **Q HAVE YOU PREPARED AN ANALYSIS TO SHOW THIS?**

18 A Yes Please refer to Schedule MEB-FAC-2 This summarizes pertinent statistics  
19 from the most recent Aquila and Empire District rate cases and compares them to  
20 AmerenUE

1    **Q     PLEASE EXPLAIN THIS SCHEDULE.**

2    A     Column 1 shows the dollar amount of common equity, or the common equity  
3           proportion of rate base. Column 2 shows the ROE and Column 3 shows the earnings  
4           on equity, obtained by multiplying Column 1 times Column 2. Column 4 shows the  
5           base amount of fuel cost from the rate case. Column 5 divides the base fuel cost by  
6           the common equity to determine that relationship. Note that in the case of Aquila and  
7           Empire District that base fuel costs range between 35% and 49% of the common  
8           equity, whereas for AmerenUE it is only 12%. This indicates that fuel costs, and  
9           therefore changes in fuel costs, will have a substantially greater impact on Aquila and  
10          Empire than is true for AmerenUE.

11                To illustrate this further, Columns 6 and 7 show the impact of retaining 20% of  
12           a 35% change in base fuel cost. The dollar amount is shown in Column 6 and  
13           Column 7 expresses this dollar impact on earnings as a percentage of earnings on  
14           common equity. Not surprisingly, the impact on Aquila and Empire District is much  
15           greater than it is on AmerenUE. The impact on earnings for Aquila and Empire  
16           District ranges between 16% and 22%, whereas the impact on AmerenUE is about  
17           5%.

18   **Q     WHAT DO YOU CONCLUDE FROM THIS ANALYSIS?**

19   A     I conclude that because of the significant differences in the relationship between  
20           change in fuel cost and equity levels that AmerenUE is much less impacted by these  
21           changes. AmerenUE can, and certainly should, absorb a larger share of changes in  
22           fuel costs, as illustrated on Schedule MEB-FAC-1.

1 **All Costs of Generation and Purchased Power**  
2 **(for Both Native Load and Off-System Sales)**  
3 **Should Be Included in the FAC, and All Revenues**  
4 **Received from Off-System Sales Should Be Subtracted**

5 **Q IF AMERENUE IS ALLOWED TO HAVE A FUEL ADJUSTMENT CLAUSE, HOW**  
6 **SHOULD REVENUES FROM OFF-SYSTEM SALES BE INCORPORATED?**

7 A I believe that the approach taken by AmerenUE is the proper one. It includes in the  
8 FAC calculation the total cost of fuel and purchased power incurred both for native  
9 load generation and for off-system sales. Then, the total revenues from off-system  
10 sales is subtracted to determine the net fuel cost which is then compared to the base  
11 fuel cost to determine whether a fuel adjustment factor or change in the factor is  
12 appropriate.

13 **Q IS THIS APPROACH SUPERIOR TO INCLUDING ONLY NATIVE LOAD FUEL**  
14 **COST IN THE FUEL ADJUSTMENT CLAUSE AND THEN SEPARATELY**  
15 **DETERMINING THE ESTIMATED MARGIN EARNED ON OFF-SYSTEM SALES?**

16 A I believe it is superior because it avoids the complexities and potential for  
17 mis-assignments or mis-allocations of costs between native load sales and off-system  
18 sales, and also because it provides for a tracking of the difficult to predict margins  
19 from off-system sales.

20 **Q PLEASE ELABORATE ON THE COST SEPARATION ISSUES.**

21 A AmerenUE faces over 30 different Midwest Independent System Operator (MISO)  
22 charges and adjustments in the operation of its system. Given the number of  
23 different charges, the complexity of the charges, and the volume of the transactions,  
24 attempting to separate for purposes of the FAC the costs associated with off-system  
25 sales from the costs associated with serving native load customers would expose



1 retail customers to a significant risk of over-allocation of costs These calculations  
2 also would be very difficult to audit with any degree of confidence

3 **Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

4 **A Yes, it does**

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## AmerenUE

### Analysis of Impact on ROE of Increases/Decreases in Net Fuel Costs as a Function of Retention Percentage (\$/Millions)

Line	Percent Change in \$360 Million Base Fuel Cost	Dollar Change in Cost <sup>(1)</sup>	After Tax Impact <sup>(2)</sup>	Uncompensated Change in ROE (Basis Points) <sup>(3)</sup>	Basis Point Change in ROE as a Function of Retention Percentage <sup>(4)</sup>			
					5%	10%	20%	25%
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	5%	\$18	\$11	36	1 8	3 6	7 2	9 0
2	10%	\$36	\$22	72	3 6	7 2	14 4	18 0
3	20%	\$72	\$44	144	7 2	14 4	28 8	36 0
4	25%	\$90	\$55	180	9 0	18 0	36 0	45 0
5	30%	\$108	\$66	216	10 8	21 6	43 2	54 0
6	35%	\$126	\$77	259	12 6	25 2	50 4	63 0
7	40%	\$144	\$88	288	14 4	28 8	57 6	72 0

<sup>(1)</sup>\$360 million x Column (1)

<sup>(2)</sup>Column (2) ÷ 1 62

<sup>(3)</sup>Column (3) ÷ \$300,000 per basis point

<sup>(4)</sup>Column (4) x indicated percentage

## AmerenUE

### AmerenUE Compared to Aquila and Empire District Electric Company (\$/Millions)

Line	Utility	Common Equity (1)	Return on on Equity (2)	Earnings on Equity (3)	Base Fuel Cost (4)	Base Fuel Costs as a Percentage of Common Equity (5)	Impact of Retaining 20% of a 35% Change in Base Fuel Cost	
							Amount (6)	Percent of Earnings (7)
1	Aquila <sup>(1)</sup>							
	MPS	\$442	10 25%	\$45	\$156	35%	\$7	16%
	L&P	\$90	10 25%	\$9	\$38	42%	\$2	22%
2	Empire District <sup>(2)</sup>	\$357	10 80%	\$39	\$174	49%	\$8	21%
3	AmerenUE	\$3,033	10 20%	\$309	\$360	12%	\$15	5%

<sup>(1)</sup>Case No ER-2007-0004

<sup>(2)</sup>Case No ER-2008-0093