	Exhibit No.: Issues: Witness: Type of Exhibit: Sponsoring Party: Case No.: Date Testimony Prepared:	Depreciation Brian C. Andrews Direct Testimony Missouri Industrial Energy Consumers ER-2019-0335 December 4, 2019
BEFO	ORE THE PUBLIC SERVICE O OF THE STATE OF MISSO	
) on Electric Company ouri's Tariffs to Decrease ectric Service.)	Case No. ER-2019-0335
	Direct Testimony and Schedule Brian C. Andrews	es of
Μ	On behalf of issouri Industrial Energy Co	nsumers
	December 4, 2019	
	BRUBAKER & ASSOCIATES, INC	
	Project 10842	

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Decrease Its Revenues for Electric Service.

Case No. ER-2019-0335

STATE OF MISSOURI

COUNTY OF ST. LOUIS

Affidavit of Brian C. Andrews

Brian C. Andrews, being first duly sworn, on his oath states:

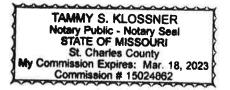
SS

1. My name is Brian C. Andrews. I am a consultant with Brubaker & Associates, Inc., having its principal place of business at 16690 Swingley Ridge Road, Suite 140, Chesterfield, Missouri 63017. 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 are my direct testimony and schedules which were prepared in written form for introduction into evidence in Missouri Public Service Commission Case No. ER-2019-0335.

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.

Subscribed and sworn to before me this 4th day of December, 2019.



BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Decrease Its Revenues for Electric Service.

Case No. ER-2019-0335

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BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Decrease Its Revenues for Electric Service.

Case No. ER-2019-0335

Direct Testimony of Brian C. Andrews

1 Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- 2 A Brian C. Andrews. My business address is 16690 Swingley Ridge Road, Suite 140,
- 3 Chesterfield, MO 63017.

4 Q WHAT IS YOUR OCCUPATION?

- 5 A I am a Senior Consultant in the field of public utility regulation with the firm of Brubaker
- 6 & Associates, Inc. ("BAI"), energy, economic and regulatory consultants.

7 Q PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.

8 A This information is included in Appendix A to this testimony.

9 Q DO YOU BELONG TO ANY PROFESSIONAL SOCIETIES?

10 A Yes. I am a member and the current President of the Society of Depreciation
11 Professionals ("SDP").

12 Q PLEASE DESCRIBE THE SOCIETY OF DEPRECIATION PROFESSIONALS.

13 A SDP is a national society that was organized to recognize the professional field of 14 depreciation analysis and individuals contributing to this field; to promote the 15 professional development and professional ethics of those practitioners in the field of 1 depreciation; to collect and exchange information about depreciation and analysis; and

- 2 to promote a national forum of programs and publications concerning depreciation.
- 3 More information on SDP can be found on its website, <u>www.depr.org</u>.

4 Q DO YOU HOLD ANY CERTIFICATIONS AS A DEPRECIATION EXPERT?

5 A Yes. I have been awarded the designation of Certified Depreciation Professional 6 ("CDP") by the SDP. This certification is based upon my education, experience, and 7 successful completion of the CDP Exam.

8 Q ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?

9 A This testimony is presented on behalf of the Missouri Industrial Energy Consumers 10 ("MIEC"), a non-profit corporation that represents the interest of large customers in 11 Missouri utility matters. These companies purchase substantial quantities of electricity 12 from Ameren Missouri, and the outcome of this proceeding will have an impact on their 13 cost of electricity.

14 Q HAVE YOU TESTIFIED BEFORE THE MISSOURI PUBLIC SERVICE COMMISSION 15 IN PRIOR PROCEEDINGS?

A Yes. I have previously testified before the Missouri Public Service Commission
("Commission" or "MPSC") regarding Ameren Missouri's net base fuel costs in Case
No. ER-2014-0258. Also, I have provided expert witness testimony in 32 regulatory
proceedings in 13 states. I have provided a list of these other proceedings in
Schedule BCA-1.

1

INTRODUCTION AND SUMMARY

2 Q WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A My direct testimony will provide MIEC's proposed depreciation rates for Ameren Missouri's production plant accounts. I will show how reallocating existing production function book reserves among the production accounts to better align book reserves with the current life and net salvage parameters will reduce the production plant depreciation expense recovered through Ameren Missouri's base rates. Since I have not made any other changes, Ameren Missouri will still be able to recover all of its investment according to its proposed life and net salvage parameters.

10 Q HOW IS YOUR DIRECT TESTIMONY STRUCTURED?

A First, I will present an overview of book depreciation concepts. This includes a
 description of the purpose of book depreciation as well as a brief overview of how
 depreciation rates are determined in a depreciation study.

14 Next, I will present a discussion of the depreciation reserve analysis I have 15 conducted that will better align Ameren Missouri's book reserves with the life and net 16 salvage parameters that it is proposing in its depreciation study.

Last, I present proposed depreciation rates that I recommend the Commissionapprove in this proceeding.

19 Q PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS.

A The depreciation rates proposed by Ameren Missouri result in excessive depreciation expense to be paid by Ameren Missouri's customers. I have conducted a depreciation reserve analysis which demonstrates that there are significant imbalances in Ameren Missouri's reserve accounts, ranging from under-accruals of 285% to over-accruals of

1 131%. These reserve imbalances result in excessive depreciation rates and expense 2 recoverable through Ameren Missouri's base rates. I have reallocated Ameren 3 Missouri's book reserves such that future depreciation accruals will more accurately 4 reflect current life and net salvage estimates of the production assets. The production plant depreciation rates that will accomplish this result are shown in Schedule BCA-7. 5 6 These production plant depreciation rates will reduce Ameren Missouri's proposed 7 2018 depreciation expense by \$23.7 million. Since Ameren Missouri proposed to 8 increase depreciation expense by \$34.6 million, my recommendation would still provide 9 Ameren Missouri with an annual increase in depreciation expense of \$10.9 million.

10

BOOK DEPRECIATION CONCEPTS

11 Q PLEASE EXPLAIN THE PURPOSE OF BOOK DEPRECIATION ACCOUNTING.

A Book depreciation is the recognition in a utility's income statement of the consumption
 or use of assets to provide utility service. Book depreciation is recorded as an expense
 and is included in the ratemaking formula to calculate the utility's overall revenue
 requirement.

16 The basic underlying principle of utility depreciation accounting is 17 intergenerational equity, where the customers/ratepayers who benefit from the 18 service of assets pay all the costs for those assets during the benefit period, which 19 is over the life of those assets.¹ This concept of intergenerational equity can be 20 achieved through depreciation by allocating costs to customers in a systematic and

¹Edison Electric Institute, Introduction to Depreciation for Public Utilities and Other Industries, April 2013, page viii.

rational manner that is consistent with the period of time in which customers receive
 the service value.²

Book depreciation provides for the recovery of the original cost of the utility's assets that are currently providing service. Book depreciation expense is not intended to provide for replacement of the existing assets, but provides for capital recovery or return of existing investment. Generally, this capital recovery occurs over the average service life of the investment or assets. As a result, it is critical that appropriate average service lives be used to develop the depreciation rates so no generation of ratepayers is disadvantaged.

In addition to capital recovery, depreciation rates also reflect recovery of net
salvage. Net salvage is simply the scrap or reuse value less the removal cost of the
asset being depreciated. Accordingly, a utility will also recover the net salvage costs
over the useful life of the asset.

14 Q ARE THERE ANY DEFINITIONS OF DEPRECIATION ACCOUNTING THAT ARE

15 UTILIZED FOR RATEMAKING PURPOSES?

- 16 A Yes. One of the most quoted definitions of depreciation accounting is the one
- 17 contained in the Code of Federal Regulations:

18 "Depreciation, as applied to depreciable electric plant, means the loss in service value not restored by current maintenance, incurred in 19 20 connection with the consumption or prospective retirement of electric 21 plant in the course of service from causes which are known to be in 22 current operation and against which the utility is not protected by 23 insurance. Among the causes to be given consideration are wear and 24 tear, decay, action of the elements, inadequacy, obsolescence, changes 25 in the art, changes in demand and requirements of public authorities."³

²*Id.* at 22.

³Code of Federal Regulations, Title 18, Chapter 1, Subchapter C, Part 101.

Effectively, depreciation accounting provides for the recovery of the original cost of an
 asset, adjusted for net salvage, over its useful life.

3 Q HOW DO DEPRECIATION RATES AFFECT A UTILITY'S REVENUE 4 REQUIREMENT?

5 A Depreciation expense is typically one of the largest single line items in a utility's overall 6 revenue requirement. When a utility updates its depreciation rates, it is effectively 7 updating the amount of capital that is returned to it each year for investments that have 8 been made to provide utility service. The depreciation rates are calculated in a 9 depreciation study. The resulting depreciation rates are then applied to test year plant 10 balances to determine the depreciation expense component of the utility revenue 11 requirement.

12 Q HOW ARE DEPRECIATION RATES DETERMINED?

A Depreciation rates are determined in a depreciation study using a depreciation system. There are three components, each with a number of variations, used to determine a depreciation system, which is then used to estimate depreciation rates. The three basic components of a depreciation system are: (1) methods, (2) grouping procedures, and (3) techniques. The choice of a depreciation system can significantly affect the resulting depreciation rates, thus the revenue requirement.

19 The depreciation study results in depreciation rates that should recover all 20 unrecovered plant investment and net salvage costs over the remaining lives of the 21 accounts studied.

1 Q IN YOUR EXPERIENCE, WHAT DEPRECIATION SYSTEM IS MOST COMMONLY 2 UTILIZED TO DETERMINE UTILITY DEPRECIATION RATES FOR RATEMAKING 3 PURPOSES?

A The most common depreciation system is one that consists of the straight line method,
the average life group procedure, and the remaining life technique. This is the same
depreciation system used by Mr. Spanos to calculate Ameren Missouri's depreciation
rates.⁴

8

DEPRECIATION RESERVE ANALYSIS

9

Q

WHAT IS A DEPRECIATION RESERVE ANALYSIS?

10 A The purpose of a depreciation reserve analysis is to compare the actual balances of a 11 company's accumulated depreciation accounts with a theoretical reserve. This 12 comparison analysis allows for a measurement of what is termed a reserve imbalance. 13 Depending on the resulting reserve imbalances calculated in the depreciation reserve 14 analysis, it may be appropriate to take corrective action to alleviate certain reserve 15 imbalances.

16 Q WHAT IS A THEORETICAL DEPRECIATION RESERVE?

17 A The theoretical depreciation reserve is a calculated balance that would be in the 18 accumulated depreciation account at a point in time using the currently proposed 19 retirement dates, survivor curves, and net salvage rates. The theoretical depreciation 20 reserve is also known as the Reserve Requirement, Computed Reserve, or Calculated 21 Accrued Depreciation ("CAD"). Ameren Missouri's main deprecation witness, John

⁴Spanos Direct Testimony at page 5, lines 12-18.

Spanos, refers to it as the CAD in his depreciation study. For each vintage of property,
 for each plant, and for each account, a theoretical reserve has been calculated by Mr.
 Spanos.⁵

4 Q HAVE YOU CONDUCTED A COMPARISON OF AMEREN MISSOURI'S BOOK 5 RESERVES AND THEORETICAL DEPRECIATION RESERVES?

- A Yes. I present in Schedule BCA-2, the depreciation reserve analysis conducted on
 Ameren Missouri's production plant accounts. I present a summary of this analysis in
- 8 Table BCA-1.

Table BCA-1									
Production Plant Depreciation Reserve Analysis Summary (\$-Million)									
		,							
Plant/Production Type	Theoretical <u>Reserve</u>	Book Reserve <u>Reserve</u> Imbalance	Imbalance <u>Percentage</u>						
Meramec	\$ 536.38	\$ 482.59 (\$ 53.79)	(10%)						
Sioux	\$ 558.38	\$ 520.14 (\$ 38.24)	(7%)						
Labadie	\$ 569.77	\$ 613.81 \$ 44.04	7%						
Rush Island	\$ 307.62	\$ 332.65 \$ 25.02	8%						
Common All Steam Plants	\$ 17.38	\$ 20.07 \$ 2.69	15%						
Total Steam Production	\$1,989.53	\$1,969.26 (\$ 20.28)	(1%)						
Nuclear	\$1,516.65	\$1,603.45 \$ 86.80	6%						
Hydro									
Other	<u>\$ 466.53</u>	<u>\$ 673.11</u> <u>\$206.57</u>	44%						
Total Production Plant	\$4,099.59	\$4,347.13 \$247.54	6%						

⁵Spanos Direct Testimony, Schedule JJS-D2, pages IX-2 through IX-152, column (3).

1 Q WHAT DO YOU CONCLUDE FROM YOUR DEPRECIATION RESERVE ANALYSIS?

A Several conclusions can be drawn from the depreciation reserve analysis. First, it is clear that relative to the theoretical reserve, the actual book reserves have been over-accrued by \$247.5 million, or 6%. Both the Steam and Hydro groups are under-accrued, Nuclear is over-accrued and Other Production is significantly over-accrued. Note that both Meramec and Sioux are under-accrued and Labadie and Rush Island are over-accrued, while total Steam Production is only under-accrued by 1%.

In addition, this analysis shows that Ameren Missouri's investment in Other
Production (mostly combustion turbines) is overstated by \$207 million, or 44%. This is
because FERC Account 344 is significantly over-accrued. The theoretical reserve for
Account 344 is \$380 million, but the actual reserve for this account is \$562 million,
which is \$181 million, or 48%, greater than what is theoretically necessary for this
account.

This analysis shows that it is appropriate to reallocate the actual book reserves.

16 Q WHY IS IT APPROPRIATE TO REBALANCE OR REALLOCATE AMEREN 17 MISSOURI'S BOOK RESERVES?

15

A As the depreciation reserve analysis shows, overall production is over-accrued by nearly \$250 million, or 6%, but some of the individual accounts or plants are either significantly over-accrued, or under-accrued. A rebalancing of the actual book reserves will better match Ameren Missouri's accumulated depreciation reserves with the current estimates of the life and net salvage parameters for these production assets.

1 Q WHAT PROCEDURE IS COMMONLY USED TO REALLOCATE BOOK 2 RESERVES?

3 The theoretical reserves are used to create ratios that allow for the book reserves to А 4 be allocated in proportion to the theoretical reserves. The first step is calculate an 5 allocation factor based on the theoretical reserve. This allocation factor for each 6 Plant/FERC Account is calculated by dividing the theoretical reserve for the individual 7 Plant/FERC Account by the total of all theoretical reserves within each functional type 8 (Steam, Nuclear, Hydro, or Other). Those ratios are then multiplied by the total actual 9 book reserve within each functional type. The result is an allocation of book reserve 10 that is proportional to the theoretical reserve. I will provide a more detailed description 11 of this procedure later in testimony.

12 Q DOES REALLOCATING AMEREN MISSOURI'S BOOK RESERVES REDUCE THE 13 TOTAL AMOUNT OF FUTURE ACCRUALS?

14 A No. Reallocation of Ameren Missouri's book reserves will not reduce the total amount 15 of future depreciation accruals. Rather, the reallocation of book reserves alters the 16 timing of those accruals such that those accruals better match the current life and net 17 salvage estimates of Ameren Missouri's production assets. Reallocating book reserves 18 is a very common procedure used when determining depreciation rates within a 19 depreciation study.

> Brian C. Andrews Page 10

1 MIEC'S PROPOSED DEPRECIATION ADJUSTMENTS

2 Q WHAT ARE MIEC'S PROPOSED ADJUSTMENTS TO AMEREN MISSOURI'S 3 DEPRECIATION RATES?

4 A MIEC proposes to adjust Ameren Missouri's proposed depreciation rates by 5 conducting a reallocation of book reserves, conducted in two phases.

6 Q WHAT IS THE FIRST PHASE OF THE RESERVE ALLOCATION ADJUSTMENT?

7 А In the first phase of the depreciation rate adjustment, the book reserves within each 8 functional production type (Steam, Nuclear, Hydro, Other) have been reallocated to 9 each of the Plant/FERC Accounts in proportion to each of those Plant/FERC Accounts' 10 theoretical reserve. The phase one book reserve allocation is provided in 11 Schedule BCA-3. As an example of how this book reserve allocation was conducted, 12 I will discuss the process utilized to determine the amount of book reserves allocated 13 to FERC Account 312 for the Meramec Plant. I also show this example in Table BCA-2.

	Table BCA-2 Depreciation Reserve Allocation Methodology <u>Meramec FERC Account 312</u> (\$-Million)					
<u>Step</u>	Description	Results (Location in Schedule BCA-3)				
1	Meramec – Account 312 CAD divided by Total CAD – Steam Production	\$355.9 / \$1,989.5 = 17.9% (Col 2, Line 2 / Col 2, Line 43)				
2	Meramec Account 312 CAD Allocator calculated in Step 1 applied to Book Reserve of all Steam Production Accounts	17.9% * \$1,960.0 = \$352.3 (Col 3, Line 2 * Col 4, Line 43)				
3	Reallocated Meramec Account 312 Book Reserve	\$352.3 (Col 4, Line 2)				

1 As is shown in Column (2), Line (2) of Schedule BCA-3, Account 312 for Meramec has a theoretical reserve or Calculated Accrued Depreciation of \$355,899,560. This value 2 3 was calculated in Ameren Missouri's depreciation study and is shown on page IX-10 of 4 Schedule JJS-D2. The CAD was used to create an allocator of 17.9%, which is shown 5 in Column (3), Line (2). 17.9% was the result of dividing the \$355.9 million of CAD for Meramec Account 312 by the total CAD for all of Steam Production, \$1,989,533,183 6 7 shown in Column (2), Line (43). In Column (4), the allocated book reserve is shown. 8 For Meramec Account 312, \$352,272,473, or 17.9%, of the entire \$1.969 billion of book 9 reserve for all steam plants has been allocated. The resulting reserve imbalance is 10 shown in Column (5) and the imbalance percentage is shown in Column (6). As can 11 be seen from this schedule, each of the four coal plants now have positive reserve 12 imbalances of only \$3.1 - \$5.8 million (1%). These resulting reserve imbalances are 13 significantly lower, in absolute terms, than the \$25.0 - \$53.8 (7% - 10%) million reserve 14 imbalances that would exist under Ameren Missouri's proposed allocation of book 15 reserves (See Table BCA-1 and Schedule BCA-2).

The procedure described for Meramec Account 312, was conducted for every production plant FERC account. As can be seen in the total lines for each function plant type (Schedule BCA-3, page 1, lines 43 and 52; page 2, lines 83 and 94), the overall reserve imbalances that were presented in Table BCA-1 and Schedule BCA-2 are unchanged; this phase one reserve allocation did not move any book reserves between production plant types.

1QHAVE YOU CALCULATED DEPRECIATION RATES CONSISTENT WITH THE2RESERVE ALLOCATION ADJUSTMENT THAT REALLOCATES THE RESERVES3WITHIN EACH OF THE FOUR TYPES OF GENERATING PLANTS?

4 A Yes. I present these depreciation rates in Schedule BCA-4. These depreciation rates
5 for Ameren Missouri's production plants were calculated in the same manner as those
6 proposed by Ameren Missouri, but with the allocated book reserve presented in
7 Schedules BCA-3.

8 Q HOW DOES THIS ADJUSTMENT AFFECT THE DEPRECIATION RATES AND 2018

9

DEPRECIATION EXPENSE?

10 A I present this comparison in Schedule BCA-5 and summarize it in Table BCA-3.

11 Overall, the phase one reserve allocation adjustment would reduce Ameren Missouri's

12 proposed 2018 depreciation expense by \$12.4 million.

	Table BCA-3								
Production Plant 2018 <u>Depreciation Expense Summary</u> (\$-Million)									
Production <u>Type</u>									
Steam Nuclear Hydro Other	\$192.4 \$82.8 \$12.8 <u>\$22.5</u>	\$181.0 \$ 81.7 \$ 13.1 <u>\$ 22.5</u>	(\$11.4) (\$ 1.1) \$ 0.2 <u>(\$ 0.1)</u>						
Total	\$310.5	\$298.2	(\$12.4)						

1 Q PLEASE EXPLAIN THE PHASE TWO RESERVE ALLOCATION ADJUSTMENT.

2 А As I alluded to earlier in my discussion of the depreciation reserve analysis, Ameren 3 Missouri has over-accrued its combustion turbine ("CT") investment in Account 344 by 4 approximately \$181 million, or 48%. Unless corrective action is taken now, this 5 over-accrual will be flowed back to customers over the 29.4 year remaining life of the CTs.⁶ Overall, Ameren Missouri has over-accrued its production plant investment by 6 7 \$247.5 million, or only 6%. The phase two adjustment will remove the \$181 million in 8 over-accrued book depreciation from Other Production and spread it to the 9 under-accrued plant types, Steam and Hydro. Specifically, \$181.3 million will be 10 removed from Other Production. \$35 million will be reallocated to the Hydro accounts 11 and the remaining \$146.3 million will be reallocated among the Steam Production 12 accounts. The process used for allocating the new total functional book reserves is 13 conducted using the exact same procedure as was used in phase one. This is shown 14 in Schedule BCA-6. This phase two book reserve allocation results in Ameren 15 Missouri's book reserves being allocated to all accounts in a manner much more 16 reflective of the overall reserve imbalance. In other words, Ameren Missouri's total 17 plant investment reserve is over-accrued by 6%. With the phase two book reserve 18 reallocation, all accounts will be allocated the book reserves with an over-accrual 19 between 5-7%. In contrast, under Ameren Missouri's allocation of book reserves, the 20 accounts range from an under-accrual of 285% to an over-accrual of 131%.⁷ I present 21 a summary of the phase two book reserve reallocation in Table BCA-4.

⁶See Spanos Direct Testimony, Schedule JJS-D2, pages VI-6 and IX-81. ⁷See Schedule BCA-2, Column (5).

Table BCA-4 Phase Two Book Reserve Reallocation Summary									
(\$-Million) Theoretical Book Reserve Imbalance <u>Plant/Production Type Reserve Reserve Imbalance Percentage</u>									
Meramec	\$ 536.38	\$ 570.35	\$ 33.97	6%					
Sioux	\$ 558.38	\$ 593.74	\$ 35.36	6%					
Labadie	\$ 569.77	\$ 605.85	\$ 36.08	6%					
Rush Island	\$ 307.62	\$ 327.11	\$ 19.49	6%					
Common All Steam Plants	\$ 17.38	\$ 18.48	\$ 1.10	6%					
Total Steam Production	\$1,989.53	\$2,115.53	\$126.00	6%					
Nuclear	\$1,516.65	\$1,603.45	\$ 86.80	6%					
Hydro	\$ 126.88	\$ 136.32	\$ 9.44	7%					
Other	······································								
Total Production Plant	\$4,099.59	\$4,347.13	\$247.54	6%					

1QHAVE YOU CALCULATED DEPRECIATION RATES CONSISTENT WITH2REALLOCATING RESERVES AND REMOVING THE \$181 MILLION3OVER-ACCRUAL FROM ACCOUNT 344 AND ALLOCATING THAT AMOUNT TO4STEAM AND HYDRO PRODUCTION?

5 A Yes. I present these depreciation rates in Schedule BCA-7. Again, these depreciation 6 rates for Ameren Missouri's production plants were calculated in the same manner as 7 those proposed by Ameren Missouri, but with the allocated book reserve presented in 8 Schedule BCA-6.

1 Q HOW DOES THE PHASE TWO BOOK RESERVE ALLOCATION ADJUSTMENT

2 AFFECT THE DEPRECIATION RATES AND 2018 DEPRECIATION EXPENSE?

3 A I present this comparison in Schedule BCA-8 and summarize it in Table BCA-5.

- 4 Overall, the phase one and phase two reserve allocation adjustments would reduce the
- 5 2018 depreciation expense by \$23.7 million.

Table BCA-5								
Production Plant 2018 Depreciation <u>Expense Summary – MIEC Phase Two</u> (\$-Million)								
Production <u>Type</u>								
Steam	\$192.4	\$164.3	(\$28.1)					
Nuclear	\$ 82.8	\$ 81.7	(\$ 1.1)					
Hydro	\$ 12.8	\$ 12.0	(\$ 0.9)					
Other	•							
Total	\$310.5	\$286.8	(\$23.7)					

6 Q WHICH PRODUCTION PLANT DEPRECIATION RATES ARE YOU REQUESTING

7 THE COMMISSION APPROVE IN THE PROCEEDING?

8 I recommend the Commission approve the production plant depreciation rates that are А 9 presented in Schedule BCA-7. These rates were calculated in the same manner as 10 those proposed by Ameren Missouri, but with a reallocation of book reserves that better 11 matches the current life and net salvage parameters for the production assets. These 12 depreciation rates would result in a reduction to Ameren Missouri's 2018 depreciation 13 expense of \$23.7 million. Since Ameren Missouri proposes to increase rates by \$34.6 14 million, my recommendation would still provide Ameren Missouri with an annual 15 increase in depreciation expense of \$10.9 million. These depreciation rates in no way reduce the total amount of future depreciation accruals for Ameren Missouri's
 production plants, but rather alter the timing of the accruals to better reflect current life
 and net salvage estimates.

4 Q DOES THAT CONCLUDE YOUR DIRECT TESTIMONY?

5 A Yes, it does.

 $\label{eq:local_$

Qualifications of Brian C. Andrews

1	Q	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	А	Brian C. Andrews. My business address is 16690 Swingley Ridge Road, Suite 140,
3		Chesterfield, MO 63017.
4	Q	PLEASE STATE YOUR OCCUPATION.
5	А	I am a Senior Consultant in the field of public utility regulation with the firm of Brubaker
6		& Associates, Inc. ("BAI"), energy, economic and regulatory consultants.
7	Q	PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL
8		EMPLOYMENT EXPERIENCE.
9	А	I received a Bachelor of Science Degree in Electrical Engineering from the Washington
10		University in St. Louis/University of Missouri - St. Louis Joint Engineering Program. I
11		have also received a Master of Science Degree in Applied Economics from Georgia
12		Southern University.
13		I have attended training seminars on multiple topics including class cost of
14		service, depreciation, power risk analysis, production cost modeling, cost-estimation
15		for transmission projects, transmission line routing, MISO load serving entity
16		fundamentals and more.
17		I am a member and the current President of the Society of Depreciation
18		Professionals. I have been awarded the designation of Certified Depreciation
19		Professional ("CDP") by the Society of Depreciation Professionals. I am also a certified
20		Engineer Intern in the State of Missouri.

1 As a Senior Consultant at BAI, and as a Consultant, Associate Consultant and 2 Assistant Engineer before that, I have been involved with several regulated and 3 competitive electric service issues. These have included book depreciation, fuel and 4 purchased power cost, transmission planning, transmission line routing, resource 5 planning including renewable portfolio standards compliance, electric price forecasting, 6 class cost of service, power procurement, and rate design. This has involved use of 7 power flow, production cost, cost of service, and various other analyses and models to 8 address these issues, utilizing, but not limited to, various programs such as Strategist, 9 RealTime, PSS/E, MatLab, R Studio, ArcGIS, Excel, and the United States Department 10 of Energy/Bonneville Power Administration's Corona and Field Effects ("CAFÉ") 11 Program. In addition, I have received extensive training on the PLEXOS Integrated 12 Energy Model and the EnCompass Power Planning Software. I have provided 13 testimony on many of these issues before the Public Service Commissions in Arizona, 14 Arkansas, Florida, Illinois, Indiana, Kansas, Michigan, Minnesota, Missouri, Montana, 15 New Mexico, Oklahoma, and Texas.

BAI was formed in April 1995. BAI provides consulting services in the economic, technical, accounting, and financial aspects of public utility rates and in the acquisition of utility and energy services through RFPs and negotiations, in both regulated and unregulated markets. Our clients include large industrial and institutional customers, some utilities and, on occasion, state regulatory agencies. We also prepare special studies and reports, forecasts, surveys and siting studies, and present seminars on utility-related issues.

In general, we are engaged in energy and regulatory consulting, economic
 analysis and contract negotiation. In addition to our main office in St. Louis, the firm
 also has branch offices in Phoenix, Arizona and Corpus Christi, Texas.

Proceedings in Which Brian C. Andrews Filed Testimony

Date Filed	State	Docket No.	Utility	Subjects	On Behalf Of
11/4/2019	ТХ	49523	LCRA TRANSMISSION SERVICES CORPORATION	Transmission Line Routing	Zorritos, LLC and Fronie Shelton
10/30/2019	IN	45253	DUKE ENERGY INDIANA, LLC	Depreciation Expense	Duke Industrial Group
10/17/2019	MI	U-20359	INDIANA MICHIGAN POWER COMPANY	Depreciation Expense	Association of Businesses Advocating Tariff Equity
8/21/2019	MI	U-20471	DTE ELECTRIC COMPANY	Resource Planning	Association of Businesses Advocating Tariff Equity
8/20/2019	IN	45235	INDIANA MICHIGAN POWER COMPANY	Depreciation Expense	The I&M Industrial Group
7/16/2019	AR	19-008-U	SOUTHWESTERN ELECTRIC POWER COMPANY	Depreciation Expense	The Office of the Arkansas Attorney General Leslie Rutledge
4/22/2019	OK	PUD 201800140	OKLAHOMA GAS AND ELECTRIC COMPANY	Depreciation Expense	Federal Executive Agencies
3/22/2019	тх	48625	SHARYLAND UTILITIES, L.P. AND LUBBOCK POWER AND LIGHT	Transmission Line Routing	Southwestern Public Service Company, BMWB Coalition, Kelly Mills, Stacey Mills and 246 Land LLC & Fox Dairy, LTD, James E. Laney, Gloyna's, Roque, Klatt, Delung, Ray, Tomsu, Browing, and Wuthrich
3/20/2019	ТΧ	48629	CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC	Transmission Line Routing	CBH Farms, Ltd.
2/12/2019	MT	D2018.2.12	NORTHWESTERN ENERGY	Depreciation Expense	Federal Executive Agencies and Montana Large Customer Group
11/7/2018	MI	U-20162	DTE ELECTRIC COMPANY	Nuclear Surcharge; Rate Design	Association of Businesses Advocating Tariff Equity
6/11/2018	KS	18-WSEE-328-RTS	WESTAR ENERGY, INC. AND KANSAS GAS AND ELECTRIC COMPANY	Cost of Service; Rate Design	Kansas Industrial Consumers Group, Inc.
6/5/2018	IL	18-0463	AMEREN ILLINOIS COMPANY D/B/A AMEREN ILLINOIS	Depreciation Expense	Illinois Industrial Energy Consumers, Citizens Utility Board and Federal Executive Agencies
5/24/2018	IN	45029	INDIANAPOLIS POWER & LIGHT COMPANY	Depreciation Expense	IPL Industrial Group
5/2/2018	OK	PUD 201700496	OKLAHOMA GAS AND ELECTRIC COMPANY	Depreciation Expense	Federal Executive Agencies
1/19/2018	MN	E015/AI-17-568	MINNESOTA POWER	Resource Planning	Large Power Intervenors
11/7/2017	IN	44967	INDIANA MICHIGAN POWER COMPANY	Depreciation Expense	Indiana Michigan Industrial Group
10/12/2017	MI	U-18370	INDIANA MICHIGAN POWER COMPANY	Depreciation Expense	Association of Businesses Advocating Tariff Equity
8/15/2017	MI	U-18150	DTE ELECTRIC COMPANY	Depreciation Expense	Association of Businesses Advocating Tariff Equity

Proceedings in Which Brian C. Andrews Filed Testimony

Date Filed	State	Docket No.	Utility	Subjects	On Behalf Of
6/2/2017	MI	U-18195	CONSUMERS ENERGY COMPANY / DTE ELECTRIC COMPANY	Depreciation Expense	Association of Businesses Advocating Tariff Equity
2/8/2017	тх	46234	AEP TEXAS NORTH COMPANY & ELECTRIC TRANSMISSION TEXAS, LLC	Transmission Line Routing	McAnelly Ranch, LP, Garrett Roddie, Leroy Keese and Robert F. Zesch
1/13/2017	FL	160186-EI / 160170- EI	GULF POWER COMPANY	Depreciation Expense	Federal Executive Agencies
12/21/2016	AZ	E-01345A-16-0036	ARIZONA PUBLIC SERVICE COMPANY	Depreciation Expense	Federal Executive Agencies
9/12/2016	ТХ	45866	LCRA TRANSMISSION SERVICES CORPORATION	Transmission Line Routing	Land and Home Owners of CR 175, Meritage Homes of Texas, LLC, Stewart Crossing Homeowner Association and Trails of Shady Oak Residential Community, Inc.
7/7/2016	FL	160021-EI	FLORIDA POWER & LIGHT COMPANY	Depreciation Expense	Federal Executive Agencies
3/21/2016	ОК	PUD 201500273	OKLAHOMA GAS AND ELECTRIC COMPANY	Depreciation Expense	Federal Executive Agencies
1/29/2016	NM	15-00261-UT	PUBLIC SERVICE COMPANY OF NEW MEXICO	Depreciation Expense	New Mexico Industrial Energy Consumers
1/22/2016	IN	44688	NORTHERN INDIANA PUBLIC SERVICE COMPANY	Depreciation Expense	NIPSCO Industrial Group
12/7/2015	ТΧ	44837	AEP TEXAS CENTRAL COMPANY	Transmission Line Routing	Coastal Prairie Alliance
10/27/2015	AR	98-349-C	C&L ELECTRIC COOPERATIVE CORPORATION	Interim Rates; Final Rate Agreement	Little Rock District, U.S. Army Corps of Engineers
7/9/2015	KS	15-WSEE-115-RTS	WESTAR ENERGY, INC. AND KANSAS GAS AND ELECTRIC COMPANY	Cost of Service; Rate Design	Kansas Industrial Consumers Group, Inc.; Occidental Chemical Corporation; CCPS Transportation, LLC; Spirit AeroSystems, Inc.; Coffeyville Resources Refining & Marketing, LLC; The Goodyear Tire & Rubber Company; Unified School District #259 and Kansas Association of School Boards
12/5/2014	MO	ER-2014-0258	UNION ELECTRIC COMPANY d/b/a AMEREN MISSOURI	Net Fuel Cost; Net Base Energy Cost	Missouri Industrial Energy Consumers

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Production Plant Depreciation Reserve Analysis

LINE NO.		(1)	BOOK RESERVE (2)	CALCULATED ACCRUED DEPRECIATION (3)	RESERVE IMBALANCE (4)=(2)-(3)	IMBALANCE PERCENTAGE (5)=(4)÷(3)
		STEAM PRODUCTION PLANT			.,.,,,,,	
		MERAMEC STEAM PRODUCTION PLANT				
(1)	311.00	STRUCTURES AND IMPROVEMENTS	38,429,334	40,627,955	(2,198,621)	-5.4%
(2)	312.00	BOILER PLANT EQUIPMENT	314,483,961	355,899,560	(41,415,599)	-11.6%
(3)	314.00 315.00	TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT	85,939,703	88,780,219	(2,840,516)	-3.2% -9.4%
(4) (5)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	39,417,889 3,902,321	43,487,471 7.039.528	(4,069,582) (3,137,207)	-44.6%
(6)	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	221,470	235,971	(14,501)	-6.1%
(7)	316.22 316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	177,236	197,090	(19,854)	-10.1% -80.8%
(8)	310.23		21,661	112,592	(90,931)	
(9)		TOTAL MERAMEC STEAM PRODUCTION PLANT	482,593,575	536,380,386	(53,786,811)	-10.0%
		SIOUX STEAM PRODUCTION PLANT				
(10)	311.00	STRUCTURES AND IMPROVEMENTS	27,148,740	27,725,517	(576,777)	-2.1%
(11) (12)	312.00 314.00	BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS	383,351,769 65,986,975	396,961,127 74,107,163	(13,609,358) (8,120,188)	-3.4% -11.0%
(12)	315.00	ACCESSORY ELECTRIC EQUIPMENT	40,291,485	53.857.521	(13,566,036)	-25.2%
(14)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	2,482,303	4,926,435	(2,444,132)	-49.6%
(15)	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	244,615	267,790	(23,175)	-8.7%
(16) (17)	316.22 316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	342,559 288,466	227,874 304,782	114,685 (16,316)	50.3% -5.4%
(18)		TOTAL SIOUX STEAM PRODUCTION PLANT	520,136,912	558,378,209	(38,241,297)	-6.8%
		LABADIE STEAM PRODUCTION PLANT				
(19)	311.00	STRUCTURES AND IMPROVEMENTS	42,259,673	38,295,246	3,964,427	10.4%
(20)	312.00	BOILER PLANT EQUIPMENT	354,096,680	337,317,011	16,779,669	5.0%
(21) (22)	312.03 314.00	BOILER PLANT EQUIPMENT - ALUMINUM COAL CARS TURBOGENERATOR UNITS	54,520,806 107,784,102	34,914,913 105,583,848	19,605,893 2,200,254	56.2% 2.1%
(22)	315.00	ACCESSORY ELECTRIC EQUIPMENT	49,590,782	46,243,024	3,347,758	7.2%
(24)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	4,782,986	6,402,241	(1,619,255)	-25.3%
(25)	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	239,393	257,298	(17,905)	-7.0%
(26) (27)	316.22 316.23	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	217,409 319,348	220,538 536,019	(3,129) (216,671)	-1.4% -40.4%
(28)		TOTAL LABADIE STEAM PRODUCTION PLANT	613,811,179	569,770,138	44,041,041	7.7%
		RUSH ISLAND STEAM PRODUCTION PLANT				
(29)	311.00	STRUCTURES AND IMPROVEMENTS	36,605,064	31,728,462	4,876,602	15.4%
(30)	312.00	BOILER PLANT EQUIPMENT	203,384,684	183,242,775	20,141,909	11.0%
(31) (32)	314.00 315.00	TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT	65,813,092 23,877,111	66,769,995 21,279,245	(956,903) 2,597,866	-1.4% 12.2%
(32)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	2,235,645	3,886,334	(1,650,689)	-42.5%
(34)	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	258,921	275,814	(16,893)	-6.1%
(35)	316.22	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT	272,333	189,403	82,930	43.8%
(36)	316.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	202,279	252,577	(50,298)	-19.9%
(37)		TOTAL RUSH ISLAND STEAM PRODUCTION PLANT	332,649,129	307,624,605	25,024,524	8.1%
(38)	311.00	COMMON- ALL STEAM PLANTS STRUCTURES AND IMPROVEMENTS	805,929	837,199	(31,270)	-3.7%
(38)	311.00	BOILER PLANT EQUIPMENT	17,936,242	15,187,209	2,749,033	-3.7% 18.1%
(40)	315.00	ACCESSORY ELECTRIC EQUIPMENT	1,318,122	1,348,568	(30,446)	-2.3%
(41)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	6,124	6,869	(745)	-10.8%
(42)		TOTAL COMMON - ALL STEAM PLANTS	20,066,417	17,379,845	2,686,572	15.5%
(43)		TOTAL STEAM PRODUCTION PLANT	1,969,257,212	1,989,533,183	(20,275,971)	-1.0%
		NUCLEAR PRODUCTION PLANT				
		CALLAWAY NUCLEAR PRODUCTION PLANT				
(44) (45)	321.00	STRUCTURES AND IMPROVEMENTS	610,816,910	500,792,389	110,024,521	22.0%
(45) (46)	322.00 323.00	REACTOR PLANT EQUIPMENT TURBOGENERATOR UNITS	554,452,543 264,842,023	563,669,096 266,813,549	(9,216,553) (1,971,526)	-1.6% -0.7%
(47)	324.00	ACCESSORY ELECTRIC EQUIPMENT	141,537,331	122,691,253	18,846,078	15.4%
(48)	325.00	MISCELLANEOUS POWER PLANT EQUIPMENT	24,634,349	54,690,645	(30,056,296)	-55.0%
(49)	325.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	3,059,115	3,230,020	(170,905)	-5.3%
(50) (51)	325.22 325.23	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	2,018,762 2,091,492	2,172,874 2,588,720	(154,112) (497,228)	-7.1% -19.2%
(52)		TOTAL NUCLEAR PRODUCTION PLANT	1,603,452,525	1,516,648,546	86,803,979	5.7%

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Production Plant Depreciation Reserve Analysis

LINE NO.		ACCOUNT	BOOK RESERVE	CALCULATED ACCRUED DEPRECIATION	RESERVE	IMBALANCE PERCENTAGE
		(1)	(2)	(3)	(4)=(2)-(3)	(5)=(4)÷(3)
		HYDRAULIC PRODUCTION PLANT				
		OSAGE HYDRAULIC PRODUCTION PLANT				
(53)	331.00	STRUCTURES AND IMPROVEMENTS	1,232,595	2,473,536	(1,240,941)	-50.2%
(54)	332.00	RESERVOIRS, DAMS AND WATERWAYS	19,086,541	19,432,145	(345,604)	-1.8%
(55)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	20,634,254	20,669,167	(34,913)	-0.2%
(56)	334.00	ACCESSORY ELECTRIC EQUIPMENT	6,011,729	6,458,071	(446,342)	-6.9%
(57) (58)	335.00 335.21	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	-234,831 25,881	672,580 28,327	(907,411) (2,446)	-134.9% -8.6%
(59)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	37,489	42,342	(4,853)	-0.0%
(60)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	107,984	143,157	(35,173)	-24.6%
(61)	336.00	ROADS, RAILROADS AND BRIDGES	124,170	53,778	70,392	130.9%
(62)		TOTAL OSAGE HYDRAULIC PRODUCTION PLANT	47,025,812	49,973,103	(2,947,291)	-5.9%
		TAUM SAUK HYDRAULIC PRODUCTION PLANT				
(63)	331.00	STRUCTURES AND IMPROVEMENTS	4,330,384	3,516,256	814,128	23.2%
(64)	332.00	RESERVOIRS, DAMS AND WATERWAYS	-6,633,668	3,591,402	(10,225,070)	-284.7%
(65)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	10,808,605	17,636,469	(6,827,864)	-38.7%
(66) (67)	334.00 335.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	1,741,961 2.937	2,202,617 661,766	(460,656)	-20.9% -99.6%
(67)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE FURNITURE	2,937 33,658	35,066	(658,829) (1,408)	-99.6%
(69)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	295,871	318,958	(23,087)	-7.2%
(70)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	262,981	265,208	(2,227)	-0.8%
(71)	336.00	ROADS, RAILROADS AND BRIDGES	94,385	47,578	46,807	98.4%
(72)		TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT	10,937,114	28,275,320	(17,338,206)	-61.3%
		KEOKUK HYDRAULIC PRODUCTION PLANT				
(73)	331.00	STRUCTURES AND IMPROVEMENTS	2,142,658	2,444,659	(302,001)	-12.4%
(74)	332.00	RESERVOIRS, DAMS AND WATERWAYS	7,831,984	7,486,361	345,623	4.6%
(75)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	29,075,101	33,406,860	(4,331,759)	-13.0%
(76) (77)	334.00 335.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	3,501,249 591,681	4,036,794 1,033,184	(535,545) (441,503)	-13.3% -42.7%
(78)	335.21	MISCELLANEOUS POWER PLANT EQUIPMENT	45.964	48.215	(2,251)	-4.7%
(79)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	53,915	58,755	(4,840)	-8.2%
(80)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	31,558	56,184	(24,626)	-43.8%
(81)	336.00	ROADS, RAILROADS AND BRIDGES	80,580	56,520	24,060	42.6%
(82)		TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT	43,354,690	48,627,532	(5,272,842)	-10.8%
(83)		TOTAL HYDRAULIC PRODUCTION PLANT	101,317,616	126,875,955	(25,558,339)	-20.1%
		OTHER PRODUCTION PLANT				
(84)	341.00	STRUCTURES AND IMPROVEMENTS	19,039,271	16,608,028	2,431,243	14.6%
(85)	342.00	FUEL HOLDERS, PRODUCERS AND ACCESSORIES	18,170,505	14,404,559	3,765,946	26.1%
(86)	344.00	GENERATORS - OTHER CTS	561,600,934	380,331,328	181,269,606	47.7%
(87) (88)	344.10 344.20	MARYLAND HEIGHTS LANDFILL CTG SOLAR	4,185,509 3,897,117	2,834,540 2,639,233	1,350,969 1,257,884	47.7% 47.7%
(89)	345.00	ACCESSORY ELECTRIC EQUIPMENT	61,618,283	46,015,400	15,602,883	33.9%
(90)	346.00	MISCELLANEOUS POWER PLANT EQUIPMENT	4,113,135	3,131,511	981,624	31.3%
(91)	346.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	190,405	202,955	(12,550)	-6.2%
(92)	346.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	246,794	268,495	(21,701)	-8.1%
(93)	346.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	45,183	97,895	(52,712)	-53.8%
(94)		TOTAL OTHER PRODUCTION PLANT	673,107,136	466,533,944	206,573,192	44.3%
(95)		TOTAL PRODUCTION PLANT	4,347,134,489	4,099,591,628	247,542,861	6.0%

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase 1 Book Reserve Allocation

LINE NO.		ACCOUNT	CALCULATED ACCRUED DEPRECIATION	CAD DERIVED ALLOCATOR	ALLOCATED BOOK RESERVE	RESERVE IMBALANCE	IMBALANCE PERCENTAGE
		(1)	(2)	(3)	(4)	(5)=(4)-(2)	(6)=(5)÷(4)
		STEAM PRODUCTION PLANT					
		MERAMEC STEAM PRODUCTION PLANT					
(1)	311.00		40,627,955	2.0%	40,213,902	(414,053)	-1.0%
(2) (3)	312.00 314.00	BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS	355,899,560 88,780,219	17.9% 4.5%	352,272,473 87,875,431	(3,627,087) (904,788)	-1.0% -1.0%
(4)	315.00	ACCESSORY ELECTRIC EQUIPMENT	43,487,471	2.2%	43,044,276	(443,195)	-1.0%
(5) (6)	316.00 316.21	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	7,039,528 235,971	0.4% 0.0%	6,967,786 233,566	(71,742) (2,405)	-1.0% -1.0%
(7)	316.22	MISCELLANEOUS FOWER FLANT EQUIPMENT - OFFICE FORMITURE	197,090	0.0%	195,081	(2,009)	-1.0%
(8)	316.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	112,592	0.0%	111,445	(1,147)	-1.0%
(9)		TOTAL MERAMEC STEAM PRODUCTION PLANT	536,380,386	27.0%	530,913,961	(5,466,425)	-1.0%
		SIOUX STEAM PRODUCTION PLANT					
(10)	311.00	STRUCTURES AND IMPROVEMENTS	27,725,517	1.4%	27,442,957	(282,560)	-1.0%
(11)	312.00	BOILER PLANT EQUIPMENT	396,961,127	20.0%	392,915,569	(4,045,558)	-1.0%
(12) (13)	314.00 315.00	TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT	74,107,163 53,857,521	3.7% 2.7%	73,351,913 53,308,642	(755,250) (548,879)	-1.0% -1.0%
(10)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	4,926,435	0.2%	4,876,228	(50,207)	-1.0%
(15)	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	267,790	0.0%	265,061	(2,729)	-1.0%
(16) (17)	316.22 316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	227,874 304,782	0.0% 0.0%	225,552 301,676	(2,322) (3,106)	-1.0% -1.0%
	010.20	TOTAL SIOUX STEAM PRODUCTION PLANT					
(18)		I TAL SIOUX STEAM PRODUCTION PLANT	558,378,209	28.1%	552,687,598	(5,690,611)	-1.0%
		LABADIE STEAM PRODUCTION PLANT					
(19)	311.00	STRUCTURES AND IMPROVEMENTS	38,295,246	1.9%	37,904,967	(390,279)	-1.0%
(20) (21)	312.00 312.03	BOILER PLANT EQUIPMENT BOILER PLANT EQUIPMENT - ALUMINUM COAL CARS	337,317,011 34,914,913	17.0% 1.8%	333,879,305 34,559,084	(3,437,706) (355,829)	-1.0% -1.0%
(21)	314.00	TURBOGENERATOR UNITS	105,583,848	5.3%	104,507,809	(1,076,039)	-1.0%
(23)	315.00	ACCESSORY ELECTRIC EQUIPMENT	46,243,024	2.3%	45,771,747	(471,277)	-1.0%
(24) (25)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	6,402,241	0.3%	6,336,994	(65,247)	-1.0%
(25)	316.21 316.22	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	257,298 220,538	0.0% 0.0%	254,676 218,290	(2,622) (2,248)	-1.0% -1.0%
(27)	316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	536,019	0.0%	530,556	(5,463)	-1.0%
(28)		TOTAL LABADIE STEAM PRODUCTION PLANT	569,770,138	28.6%	563,963,428	(5,806,710)	-1.0%
		RUSH ISLAND STEAM PRODUCTION PLANT					
(29)	311.00	STRUCTURES AND IMPROVEMENTS	31,728,462	1.6%	31,405,107	(323,355)	-1.0%
(30)	312.00	BOILER PLANT EQUIPMENT	183,242,775	9.2%	181,375,289	(1,867,486)	-1.0%
(31) (32)	314.00	TURBOGENERATOR UNITS	66,769,995	3.4%	66,089,521	(680,474)	-1.0%
(32)	315.00 316.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	21,279,245 3,886,334	1.1% 0.2%	21,062,381 3,846,727	(216,864) (39,607)	-1.0% -1.0%
(34)	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	275,814	0.0%	273,003	(2,811)	-1.0%
(35)	316.22	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT	189,403	0.0%	187,473	(1,930)	-1.0%
(36)	316.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	252,577	0.0%	250,003	(2,574)	-1.0%
(37)		TOTAL RUSH ISLAND STEAM PRODUCTION PLANT	307,624,605	15.5%	304,489,504	(3,135,101)	-1.0%
		COMMON- ALL STEAM PLANTS					
(38)	311.00	STRUCTURES AND IMPROVEMENTS	837,199	0.0%	828,667	(8,532)	-1.0%
(39)	312.00	BOILER PLANT EQUIPMENT	15,187,209	0.8%	15,032,431	(154,778)	-1.0%
(40) (41)	315.00 316.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	1,348,568 6,869	0.1% 0.0%	1,334,824 6,799	(13,744) (70)	-1.0% -1.0%
(42)		TOTAL COMMON- ALL STEAM PLANTS	17,379,845	0.9%	17,202,721	(177,124)	-1.0%
(43)		TOTAL STEAM PRODUCTION PLANT	1,989,533,183	100.0%	1,969,257,212	(20,275,971)	-1.0%
(40)			.,000,000,100		.,000,201,212	(20,210,011)	
		CALLA WAY NUCLEAR PRODUCTION PLANT					
(44)	321.00	STRUCTURES AND IMPROVEMENTS	500,792,389	33.0%	529,454,779	28,662,390	5.7%
(45)	322.00	REACTOR PLANT EQUIPMENT	563,669,096	37.2%	595,930,176	32,261,080	5.7%
(46) (47)	323.00 324.00	TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT	266,813,549 122,691,253	17.6% 8.1%	282,084,376 129,713,374	15,270,827 7,022,121	5.7% 5.7%
(48)	325.00	MISCELLANEOUS POWER PLANT EQUIPMENT	54,690,645	3.6%	57,820,814	3,130,169	5.7%
(49)	325.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	3,230,020	0.2%	3,414,887	184,867	5.7%
(50) (51)	325.22 325.23	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	2,172,874 2,588,720	0.1% 0.2%	2,297,236 2,736,883	124,362 148,163	5.7% 5.7%
(52)		TOTAL NUCLEAR PRODUCTION PLANT	1,516,648,546	100.0%	1,603,452,525	86,803,979	5.7%

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase 1 Book Reserve Allocation

LINE NO.		ACCOUNT	CALCULATED ACCRUED DEPRECIATION	CAD DERIVED ALLOCATOR	ALLOCATED BOOK RESERVE	RESERVE IMBALANCE	IMBALANCE PERCENTAGE
		(1)	(2)	(3)	(4)	(5)=(4)-(2)	(6)=(5)÷(4)
		HYDRAULIC PRODUCTION PLANT					
		OSAGE HYDRAULIC PRODUCTION PLANT					
(53)	331.00	STRUCTURES AND IMPROVEMENTS	2,473,536	1.9%	1,975,258	(498,278)	-20.1%
(54)	332.00	RESERVOIRS, DAMS AND WATERWAYS	19,432,145	15.3%	15,517,665	(3,914,480)	-20.1%
(55)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	20,669,167	16.3%	16,505,497	(4,163,670)	-20.1%
(56) (57)	334.00 335.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	6,458,071 672,580	5.1% 0.5%	5,157,134 537,093	(1,300,937) (135,487)	-20.1% -20.1%
(58)	335.00	MISCELLANEOUS FOWER FLANT EQUIPMENT	28,327	0.0%	22,621	(135,487) (5,706)	-20.1%
(59)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	42,342	0.0%	33,812	(8,530)	-20.1%
(60)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	143,157	0.1%	114,319	(28,838)	-20.1%
(61)	336.00	ROADS, RAILROADS AND BRIDGES	53,778	0.0%	42,945	(10,833)	-20.1%
(62)		TOTAL OSAGE HYDRAULIC PRODUCTION PLANT	49,973,103	39.4%	39,906,345	(10,066,758)	-20.1%
		TAUM SAUK HYDRAULIC PRODUCTION PLANT					
(63)	331.00	STRUCTURES AND IMPROVEMENTS	3,516,256	2.8%	2,807,929	(708,327)	-20.1%
(64)	332.00	RESERVOIRS, DAMS AND WATERWAYS	3,591,402	2.8%	2,867,937	(723,465)	-20.1%
(65) (66)	333.00 334.00	WATER WHEELS, TURBINES, AND GENERATORS ACCESSORY ELECTRIC EQUIPMENT	17,636,469 2,202,617	13.9% 1.7%	14,083,717 1,758,914	(3,552,752) (443,703)	-20.1% -20.1%
(67)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT	661,766	0.5%	528,458	(133,308)	-20.1%
(68)	335.21	MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE FURNITURE	35,066	0.0%	28,002	(7,064)	-20.1%
(69)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	318,958	0.3%	254,706	(64,252)	-20.1%
(70)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	265,208	0.2%	211,784	(53,424)	-20.1%
(71)	336.00	ROADS, RAILROADS AND BRIDGES	47,578	0.0%	37,994	(9,584)	-20.1%
(72)		TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT	28,275,320	22.3%	22,579,440	(5,695,880)	-20.1%
		KEOKUK HYDRAULIC PRODUCTION PLANT					
(73)	331.00	STRUCTURES AND IMPROVEMENTS	2,444,659	1.9%	1,952,198	(492,461)	-20.1%
(74) (75)	332.00	RESERVOIRS, DAMS AND WATERWAYS	7,486,361	5.9%	5,978,282	(1,508,079)	-20.1%
(75)	333.00 334.00	WATER WHEELS, TURBINES, AND GENERATORS ACCESSORY ELECTRIC EQUIPMENT	33,406,860 4,036,794	26.3% 3.2%	26,677,265 3,223,608	(6,729,595) (813,186)	-20.1% -20.1%
(77)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT	1,033,184	0.8%	825,056	(208,128)	-20.1%
(78)	335.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	48,215	0.0%	38,502	(9,713)	-20.1%
(79)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	58,755	0.0%	46,919	(11,836)	-20.1%
(80)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	56,184	0.0%	44,866	(11,318)	-20.1%
(81)	336.00	ROADS, RAILROADS AND BRIDGES	56,520	0.0%	45,134	(11,386)	-20.1%
(82)		TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT	48,627,532	38.3%	38,831,831	(9,795,701)	-20.1%
(83)		TOTAL HYDRAULIC PRODUCTION PLANT	126,875,955	100.0%	101,317,616	(25,558,339)	-20.1%
		OTHER PRODUCTION PLANT					
(84)	341.00	STRUCTURES AND IMPROVEMENTS	16,608,028	3.6%	23,961,777	7,353,749	44.3%
(85)	342.00	FUEL HOLDERS, PRODUCERS AND ACCESSORIES	14,404,559	3.1%	20,782,650	6,378,091	44.3%
(86)	344.00	GENERATORS - OTHER CTS	380,331,328	81.5%	548,735,487	168,404,159	44.3%
(87)	344.10	MARYLAND HEIGHTS LANDFILL CTG	2,834,540	0.6%	4,089,625	1,255,085	44.3%
(88)	344.20		2,639,233	0.6%	3,807,840	1,168,607	44.3%
(89) (90)	345.00 346.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	46,015,400	9.9%	66,390,226	20,374,826	44.3%
(90)	346.00	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	3,131,511 202,955	0.7% 0.0%	4,518,090 292,820	1,386,579 89,865	44.3% 44.3%
(92)	346.22	MISCELLANEOUS FOWER FLANT EQUIPMENT - OFFICE FORMTORE	268,495	0.1%	387,380	118,885	44.3%
(93)	346.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	97,895	0.0%	141,241	43,346	44.3%
(94)		TOTAL OTHER PRODUCTION PLANT	466,533,944	100.0%	673,107,136	206,573,192	44.3%
(95)		TOTAL PRODUCTION PLANT	4,099,591,628	100.0%	4,347,134,489	247,542,861	6.0%

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase One Depreciation Rates

LINE			PROBABLE	SURVIVOR	NET SALVAGE	ORIGINAL COST AS OF	ALLOCATED BOOK	FUTURE		CRUAL	COMPOSITE
NO.	-	ACCOUNT(1)	DATE (2)	CURVE (3)	PERCENT (4)	DECEMBER 31, 2018 (5)	RESERVE (6)	ACCRUALS (7)	AMOUNT (8)	RATE (9)=(8)/(5)	LIFE (10)
		STEAM PRODUCTION PLANT	(-)	(-)	(1)	(-)	(-)		(-)	(-) (-)(-)	()
		MERAMEC STEAM PRODUCTION PLANT									
(1) (2) (3) (4) (5) (6) (7) (8)	311.00 312.00 314.00 315.00 316.00 316.21 316.22 316.23	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	09-2022 09-2022 09-2022 09-2022 09-2022	90-R1.5 55-R0.5 60-S0.5 75-S0 40-L0 20-S0 15-SQ 5-SQ	0 (1) 0 0 0 0 0 0	49,694,024 449,450,037 112,835,475 57,843,695 10,042,922 478,958 349,114 260,928	40,213,902 352,272,473 87,875,431 43,044,276 6,967,786 233,566 195,081 111,445	9,480,121 101,672,064 24,960,044 14,799,419 3,075,136 245,392 154,032 149,483	2,545,843 27,623,876 6,742,134 3,981,821 847,205 25,682 25,835 65,574	5.12 6.15 5.98 6.88 8.44 5.36 7.40 25.13	3.72 3.68 3.70 3.72 3.63 9.55 5.96 2.28
		TOTAL MERAMEC STEAM PRODUCTION PLANT				680,955,153	530,913,961	154,535,692	41,857,969	6.15	3.69
		SIOUX STEAM PRODUCTION PLANT									
(9) (10) (11) (12) (13) (14) (15) (16)	311.00 312.00 314.00 315.00 316.00 316.21 316.22 316.23	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	09-2033 09-2033 09-2033 09-2033 09-2033	90-R1.5 55-R0.5 60-S0.5 75-S0 40-L0 20-SQ 15-SQ 5-SQ	(1) (3) (1) (1) 0 0 0 0	57,644,417 959,178,604 164,593,128 127,824,998 13,764,462 1,153,502 404,152 505,484	27,442,957 392,915,569 73,351,913 53,308,642 4,876,228 265,061 225,552 301,676	30,777,904 595,038,394 92,887,146 75,794,607 8,888,234 888,441 178,600 203,808	2,136,242 43,138,087 6,592,038 5,321,048 687,188 59,444 16,085 84,241	3.71 4.50 4.01 4.16 4.99 5.15 3.98 16.67	14.41 13.79 14.09 14.24 12.93 14.95 11.10 2.42
(17)		TOTAL SIOUX STEAM PRODUCTION PLANT				1,325,068,747	552,687,598	804,657,133	58,034,373	4.38	13.87
		LABADIE STEAM PRODUCTION PLANT									
(18) (19) (20) (21) (22) (23) (24) (25) (26)	311.00 312.00 312.03 314.00 315.00 316.00 316.21 316.22 316.23	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT BOILER PLANT EQUIPMENT - ALUMINUM COAL CARS TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT	09-2042 09-2042 09-2042 09-2042 09-2042 09-2042	90-R1.5 55-R0.5 30-R2.5 60-S0.5 75-S0 40-L0 20-SQ 15-SQ 5-SQ	(2) (6) 25 (2) (2) 0 0 0 0 0	129,958,084 1,019,643,582 78,356,568 253,612,210 117,531,789 18,131,397 685,482 474,348 1,554,304	37,904,967 333,879,305 34,559,084 104,507,809 45,771,747 6,336,994 254,676 218,290 530,556	94,652,279 746,942,892 24,928,342 154,176,645 74,110,679 11,794,404 430,806 256,057 1,023,748	4,134,684 35,527,761 1,761,074 7,202,395 3,349,197 644,716 36,196 31,951 331,373	3.18 3.48 2.25 2.84 2.85 3.56 5.28 6.74 21.32	22.89 21.02 13.75 21.41 22.13 18.29 11.90 8.01 3.09
(27)		TOTAL LABADIE STEAM PRODUCTION PLANT				1,619,947,765	563,963,428	1,107,595,851	53,019,347	3.27	20.89
		RUSH ISLAND STEAM PRODUCTION PLANT									
(28) (29) (30) (31) (32) (33) (34) (35) (36)	311.00 312.00 314.00 315.00 316.00 316.21 316.22 316.23	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS TOTAL RUSH ISLAND STEAM PRODUCTION PLANT	09-2045 09-2045 09-2045 09-2045 09-2045	90-R1.5 55-R0.5 60-S0.5 75-S0 40-L0 20-SQ 15-SQ 5-SQ	(2) (7) (3) (2) 0 0 0 0	97,508,417 544,885,857 168,172,021 56,059,486 14,402,183 548,415 471,772 1,305,162 883,353,313	31,405,107 181,375,289 66,089,521 21,062,381 3,846,727 273,003 187,473 250,003 304,489,504	68,053,478 401,652,578 107,127,661 36,118,294 10,555,456 275,411 284,300 1,055,159 625,122,337	2,661,463 17,321,674 4,532,507 1,468,645 517,758 29,375 25,743 265,553 26,822,718	2.73 3.18 2.70 2.62 3.59 5.36 5.46 20.35 3.04	25.57 23.19 23.64 24.59 20.39 9.38 11.04 3.97 23.31
(37) (38) (39) (40)	311.00 312.00 315.00 316.00	COMMON- ALL STEAM PLANTS STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	09-2042 09-2042 09-2042 09-2042	90-R1.5 55-R0.5 75-S0 40-L0	(2) (6) (2) 0	1,976,445 36,395,109 3,129,975 17,331	828,667 15,032,431 1,334,824 6,799	1,187,307 23,546,385 1,857,750 10,532	52,074 1,121,205 84,517 577	2.63 3.08 2.70 3.33	22.80 21.00 21.98 18.25
(41)		TOTAL COMMON - ALL STEAM PLANTS				41,518,860	17,202,721	26,601,973	1,258,373	3.03	21.14
(42)		TOTAL STEAM PRODUCTION PLANT				4,550,843,838	1,969,257,212	2,718,512,988	180,992,780	3.98	15.02

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase One Depreciation Rates

LINE NO.		ACCOUNT	PROBABLE RETIREMENT DATE	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2018	ALLOCATED BOOK RESERVE	FUTURE	CALCUL ANNUAL AC		COMPOSITE REMAINING LIFE
<u>NO.</u>		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)/(5)	(10)
		NUCLEAR PRODUCTION PLANT									
		CALLAWAY NUCLEAR PRODUCTION PLANT									
(43)	321.00	STRUCTURES AND IMPROVEMENTS	10-2044	90-R2	(1)	966,505,827	529,454,779	446,716,106	18,166,179	1.88	24.59
(44)	322.00	REACTOR PLANT EQUIPMENT	10-2044	50-S0.5	(6)	1,308,617,665	595,930,176	791,204,549	36,648,665	2.80	21.59
(45) (46)	323.00 324.00	TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT	10-2044 10-2044	50-S1	(4)	547,183,008 276,478,610	282,084,376	286,985,953	13,719,360	2.51	20.92 24.29
(46) (47)	324.00	MISCELLANEOUS POWER PLANT EQUIPMENT	10-2044	75-R2 35-L0.5	(1) 0	145,202,535	129,713,374 57,820,814	149,530,022 87,381,722	6,155,006 4,951,664	2.23 3.41	24.29
(47)	325.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	10=2044	20-SQ	0	7,784,414	3,414,887	4,369,527	385,873	4.96	11.32
(49)	325.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT		15-SQ	õ	4,374,774	2,297,236	2,077,538	292,621	6.69	7.10
(50)	325.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS		5-SQ	0	6,755,517	2,736,883	4,018,634	1,335,561	19.77	3.01
(51)		TOTAL NUCLEAR PRODUCTION PLANT				3,262,902,351	1,603,452,525	1,772,284,051	81,654,929	2.50	21.70
(52)		HYDRAULIC PRODUCTION PLANT									
		OSAGE HYDRAULIC PRODUCTION PLANT									
(53)	331.00	STRUCTURES AND IMPROVEMENTS	06-2047	125-R1	(2)	8,949,981	1,975,258	7,153,722	262,565	2.93	27.25
(54)	332.00	RESERVOIRS, DAMS AND WATERWAYS	06-2047	150-R2.5	(1)	86,430,152	15,517,665	71,776,789	2,546,230	2.95	28.19
(55)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	06-2047	95-S0	(8)	63,276,661	16,505,497	51,833,296	1,922,514	3.04	26.96
(56)	334.00	ACCESSORY ELECTRIC EQUIPMENT	06-2047	65-R1	(1)	30,561,496	5,157,134	25,709,976	986,585	3.23	26.06
(57) (58)	335.00 335.21	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	06-2047	50-R0.5 20-SQ	0	2,910,936 82,651	537,093 22,621	2,373,842 60,030	98,907 4,574	3.40 5.53	24.00 13.12
(59)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT		15-SQ	0	97,613	33,812	63,801	7,645	7.83	8.35
(60)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS		5-SQ	0	865,748	114,319	751,430	184,648	21.33	4.07
(61)	336.00	ROADS, RAILROADS AND BRIDGES	06-2047	50-R0.5	0	77,445	42,945	34,500	0	-	-
(62)		TOTAL OSAGE HYDRAULIC PRODUCTION PLANT				193,252,683	39,906,345	159,757,387	6,013,668	3.11	26.57
		TAUM SAUK HYDRAULIC PRODUCTION PLANT									
(63)	331.00	STRUCTURES AND IMPROVEMENTS	06-2089	125-R1	(5)	22,210,082	2,807,929	20,512,658	326,113	1.47	62.90
(64)	332.00	RESERVOIRS, DAMS AND WATERWAYS	06-2089	150-R2.5	(3)	10,271,817	2,867,937	7,712,034	119,056	1.16	64.78
(65)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	06-2089	95-S0	(26)	73,722,396	14,083,717	78,806,502	1,380,128	1.87	57.10
(66)	334.00 335.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	06-2089	65-R1 50-R0.5	(3)	13,146,539	1,758,914	11,782,021	239,516	1.82 2.16	49.19 41.15
(67) (68)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE FURNITURE	06-2089	20-SQ	0	4,763,369 139,273	528,458 28,002	4,234,911 111,271	102,911 7,499	5.38	41.15
(69)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE EQUIPMENT		15-SQ	0	605,689	254,706	350.983	49.954	8.25	7.03
(70)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS		5-SQ	Ő	330,425	211,784	118,642	69,599	21.06	1.70
(71)	336.00	ROADS, RAILROADS AND BRIDGES	06-2089	50-R0.5	0	232,752	37,994	194,758	4,552	1.96	42.79
(72)		TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT				125,422,342	22,579,440	123,823,779	2,299,330	1.83	53.85
		KEOKUK HYDRAULIC PRODUCTION PLANT									
(73)	331.00	STRUCTURES AND IMPROVEMENTS	06-2055	125-R1	(3)	8,808,412	1,952,198	7,120,467	206,777	2.35	34.44
(74)	332.00	RESERVOIRS, DAMS AND WATERWAYS	06-2055	150-R2.5	(1)	18,410,282	5,978,282	12,616,103	354,642	1.93	35.57
(75)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	06-2055	95-S0	(10)	132,187,416	26,677,265	118,728,894	3,501,753	2.65	33.91
(76) (77)	334.00 335.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	06-2055 06-2055	65-R1 50-R0.5	(1) 0	19,861,916 4,327,860	3,223,608 825,056	16,836,927 3,502,804	529,211 123,175	2.66 2.85	31.82 28.44
(78)	335.21	MISCELLANEOUS FOWER FLANT EQUIPMENT MISCELLANEOUS FOWER FLANT EQUIPMENT- OFFICE FURNITURE	00-2055	20-SQ	0	4,327,000	38,502	38,634	5,205	6.75	7.42
(79)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT		15-SO	Ö	121,176	46,919	74,257	9,803	8.09	7.58
(80)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS		5-SQ	0	86,657	44,866	41,791	24,838	28.66	1.68
(81)	336.00	ROADS, RAILROADS AND BRIDGES	06-2055	50-R0.5	0	114,926	45,134	69,792	2,644	2.30	26.40
(82)		TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT				183,995,782	38,831,831	159,029,667	4,758,048	2.59	33.42
(83)		TOTAL HYDRAULIC PRODUCTION PLANT				502,670,806	101,317,616	442,610,833	13,071,046	2.60	33.86

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase One Depreciation Rates

LINE NO.			PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE <u>PERCENT</u> (4)	ORIGINAL COST AS OF DECEMBER 31, 2018 (5)	ALLOCATED BOOK <u>RESERVE</u> (6)	FUTURE ACCRUALS (7)	CALCULA ANNUAL AC AMOUNT (8)		COMPOSITE REMAINING LIFE (10)
		OTHER PRODUCTION PLANT									
(84) (85) (86) (87) (88) (89) (90) (91) (92) (93)	341.00 342.00 344.00 344.10 344.20 345.00 346.00 346.21 346.22 346.23	STRUCTURES AND IMPROVEMENTS FUEL HOLDERS, PRODUCERS AND ACCESSORIES GENERATORS - OTHER CTS MARYLAND HEIGHTS LANDFILL CTG SOLAR ACCESSORY ELECTRIC EOUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE SUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE SUIPMENT		40-R3 45-R3 45-R4 8-S2.5 20-S2.5 40-R2.5 22-L2.5 20-SQ 15-SQ 5-SQ	(5) (5) 40 0 (5) 0 0 0 0 0 0	49,364,453 48,668,825 1,000,351,750 8,417,408 10,680,919 130,267,814 7,864,056 278,700 464,779 198,558	23,961,777 20,782,650 548,735,487 4,089,625 3,807,840 66,390,226 4,518,090 292,820 387,380 141,241	27,870,899 30,319,617 501,633,850 960,819 6,873,079 70,390,978 3,345,966 (14,120) 77,399 57,317	1,010,336 920,783 17,035,826 173,747 453,557 2,590,269 231,509 (2,760) 13,137 24,205	2.05 1.89 1.70 2.06 4.25 1.99 2.94 (0.99) 2.83 12.19	27.59 32.93 29.45 5.53 15.15 27.18 14.45 5.12 5.89 2.37
(94)		TOTAL OTHER PRODUCTION PLANT				1,256,557,262	673,107,136	641,515,805	22,450,610	1.79	28.57
(95)		TOTAL PRODUCTION PLANT				9,572,974,258	4,347,134,489	5,574,923,677	298,169,365	3.11	18.70

AMEREN MISSOURI Case No. ER-2019-0335 Comparison of MIEC Phase One and Ameren Missouri Depreciation Rates and Accruals

STEM FRONCTION FLAIT INTERNET STAM FRONCTION FLAIT 10 311200 DIRUCTION STANT 2,255,843 5.12 3,025,891 6.69 (19,22,23) 6.27 10 311200 DIRUCTION STANT EQUIPARIT 2,255,843 6.69 1,245,255 6.60 1,245,255 6.60 1,245,255 6.60 1,245,255 6.60 1,245,255 6.60 1,245,255 6.60 1,245,255 6.60 1,245,255 6.60 1,245,255 6.60 1,245,255 1,255,257 1,245,255 1,255,257 1,255,257 1,245,255 1,255,257 1,255,257 1,255,257 1,255,257 1,255,257 1,255,257 1,255,257 1,	LINE NO.		ACCOUNT	MIEC PHASE ANNUAL ACC AMOUNT	E ONE CRUAL RATE	AMEREN PRO ANNUAL ACC AMOUNT		DELTA ANNUAL ACC AMOUNT	RUAL	
HEARDER STELM PRODUCTION PLANT C 250,800 SUBJECT DECIDING AND DESCONCERNING C 250,800 SUBJECT DECIDING AND DESCONCERNING C 250,800 SUBJECT DECIDING AND DESCONCERNING SUBJECT DESCONCERNING <th colspan<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
01 01/2 0										
SOUX STEAM PRODUCTION PLANT 101 331.00 STRUCTURES AND BREQUERENTS 2.16.242 3.71 2.16.269 3.74 (30.421)	(2) (3) (4) (5) (6) (7) (8)	312.00 314.00 315.00 316.00 316.21 316.22	BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	27,623,876 6,742,134 3,981,821 847,205 25,682 25,835 65,574	6.15 5.98 6.88 8.44 5.36 7.40	37,890,857 7,265,007 4,957,509 1,691,746 26,948 28,828 104,959	8.43 6.44 8.57 16.85 5.63 8.26	(10,266,981) (522,873) (975,688) (844,541) (1,266) (2,993) (39,385)	(0.97) (2.28) (0.46) (1.69) (8.41) (0.27) (0.86) (15.10)	
100 511.00 STRUCTURES AND IMPROVMENTS 2.338.26 3.71 2.538.263 3.41 2.538.263 3.41 2.538.263 3.41 2.538.263 3.41 2.538.263 3.41 2.538.263 3.41 2.538.263 3.41 4.53 2.538.263 4.51 2.538.263 4.51 2.538.263 4.51 2.538.263 4.51 2.538.263 4.51 2.538.263 4.51 2.538.263 5.51 4.53 5.538.263 5.547 1.32 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) (0.538) (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51 (0.538) 2.51	(9)		TOTAL MERAMEC STEAM PRODUCTION PLANT	41,857,969		54,990,935		(13,132,966)		
(1) 312.00 DECRE PLAYT EDUPMENT (4,3):80.07 4.20 4.23:14.27 4.57 (60,3):40.00 (00,7) (1) 312.00 DECRE PLAYT EDUPMENT (5,3):80.07 (40,7) (14,17):8 (43,2):80.07 (SIOUX STEAM PRODUCTION PLANT							
LABADE STEAM PRODUCTION PLANT	(11) (12) (13) (14) (15) (16) (17)	312.00 314.00 315.00 316.00 316.21 316.22	BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	43,138,087 6,592,038 5,321,048 687,188 59,444 16,085 84,241	4.50 4.01 4.16 4.99 5.15 3.98	43,831,427 7,114,715 6,234,898 872,273 60,812 5,547 89,718	4.57 4.32 4.88 6.34 5.27 1.37	(693,340) (522,677) (913,850) (185,085) (1,368) 10,538 (5,477)	(0.03) (0.07) (0.31) (0.72) (1.35) (0.12) 2.61 (1.08)	
Image: construction of the construction of	(18)			58,034,373		60,366,053		(2,331,680)		
RUSH ISLAND STEAM PRODUCTION PLANT (29) 311.00 STRUCTURES AND IMPROVEMENTS 2.661.463 2.73 2.458.101 2.52 203.362 0.21 (30) 312.00 BOILER PLANT EQUIPMENT 17.321.674 3.18 16.372.497 3.00 949.177 0.18 (31) 314.00 TUROGENERATION UNITS 45.352.607 2.70 14.464.203 2.70 (11.969.00.00) (32) 315.00 MISCELLANEOUS POWER PLANT EQUIPMENT 14.666.45 2.62 1.364.192 2.42 114.453 0.20 (33) 316.20 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 25.753 3.03 3.071 5.63 (1.502) (0.57) (34) 316.20 MISCELLANEOUS POWER PLANT EQUIPMENT 26.652.718 2.565.276 1.170.442 (37) TOTAL RUSH ISLAND STEAM PRODUCTION PLANT 26.652.718 2.565.277 2.72 (760) (0.62) (38) 311.00 STRUCTURES AND IMPROVEMENTS 52.074 2.63 53.071 2.69 199.97) (0.62) <	(20) (21) (22) (23) (24) (25) (26)	312.00 312.03 314.00 315.00 316.00 316.21 316.22	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT BOILER PLANT EQUIPMENT - ALUMINUM COAL CARS TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT	35,527,761 1,761,074 7,202,395 3,349,197 644,716 36,196 31,951	3.48 2.25 2.84 2.85 3.56 5.28 6.74	34,566,137 308,927 7,049,342 3,176,608 729,663 37,480 32,061	3.39 0.39 2.78 2.70 4.02 5.47 6.76	961,624 1,452,147 153,053 172,589 (84,947) (1,284) (110)	0.09 1.86 0.06	
(29) 311.00 STRUCTURES AND IMPROVEMENTS 2,661,463 2,73 2,458,101 2,52 203,362 0,21 (30) 310.00 BOILER PLANT EQUIPMENT 17,321,674 3.18 16,372,497 3.00 949,177 0.18 (31) 311.00 ACCESSORY ELECTRIC EQUIPMENT 14,866,465 2,62 1,384,192 2,42 114,453 0,20 (33) 310.00 MISCELLANEOUS POWER PLANT EQUIPMENT 0,577,584 3,59 596,783 4,14 (7)9(25) 0,20 (34) 316.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 29,375 5.38 30,877 5.63 (1,502) (0,27) (35) 316.22 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE EQUIPMENT 26,523 20.35 277,564 21.27 (12,011) (0,32) (36) 310.22 MISCELLANEOUS POWER PLANT EQUIPMENT 26,522,76 1,170,442 10,38,270 0,38 (37) OTTAL RUSH ISLAND STEAM PROJUCTION PLANT 26,622,718 21.27 (17,0,442 11,170,442 11,170,442	(28)		TOTAL LABADIE STEAM PRODUCTION PLANT	53,019,347		50,244,414		2,774,933		
(30) 312.00 BOLLER PLANT EQUIPMENT 17,321,674 3.18 10,372,497 3.00 949,177 0.16 (31) 314.00 TURBOGENERATOR UNITS 14,68,645 2.62 1,354,192 2.42 114,453 0.20 (32) 316.00 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNITURE 29,375 5.36 30,877 5.63 (1,602) (0,60) (34) 316.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 29,375 5.36 30,877 5.63 (1,602) (0,62) (36) 316.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 26,527.18 21.27 (12,011) (0,92) (37) TOTAL RUSH ISLAND STEAM PRODUCTION PLANT 26,622,718 25,652,276 1,170,442 (38) 311.00 STEMUCTURES AND IMPROVEMENTS 52,074 2.63 53,071 2.69 (997) (0,06) (39) 312.00 ACCESSORY ELECTRIC COUPMENT 1,121,205 3.08 982,935 2.70 138,270 0.38 (39) 312.00 STEUCTRICE AND IMPROVEMENTS 52,074 2.63 53,071 2.69			RUSH ISLAND STEAM PRODUCTION PLANT							
COMMON-ALL STEAM PLANTS 52.074 2.63 53.071 2.69 (997) (0.06) (38) 311.00 STRUCTURES AND IMPROVEMENTS 52.074 2.63 53.071 2.69 (997) (0.06) (39) 312.00 BOILER PLANT EQUIPMENT 1.121.205 3.08 982.935 2.70 138.270 0.38 (40) 315.00 MISCELLANEOUS POWER PLANT EQUIPMENT 84.517 2.70 85.277 2.72 (760) (0.02) (41) 316.00 MISCELLANEOUS POWER PLANT EQUIPMENT 577 3.33 614 3.54 (37) (0.21) (42) TOTAL COMMON - ALL STEAM PLANTS 1.258,373 1,121,897 136,476 (43) TOTAL STEAM PRODUCTION PLANT 180,992,780 192,375,575 (11,382,795) (44) 321.00 STRUCTURES AND IMPROVEMENTS 18,166,179 1.88 14,857,503 1.54 3,308,676 0.34 (45) 322.00 REACTOR PLANT EQUIPMENT 18,166,179 1.88 14,857,503 1.54 3,308,676 0.3	(30) (31) (32) (33) (34) (35)	312.00 314.00 315.00 316.00 316.21 316.22	BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT	17,321,674 4,532,507 1,468,645 517,758 29,375 25,743	3.18 2.70 2.62 3.59 5.36 5.46	16,372,497 4,544,203 1,354,192 596,783 30,877 18,059	3.00 2.70 2.42 4.14 5.63 3.83	949,177 (11,696) 114,453 (79,025) (1,502) 7,684	0.18 (0.00) 0.20 (0.55) (0.27)	
(38) 311.00 STRUCTURES AND IMPROVEMENTS 52.074 2.63 53.071 2.69 (997) (0.06) (39) 312.00 BOILER PLANT EQUIPMENT 1.121.205 3.08 992.935 2.70 138.270 0.38 (40) 315.00 ACCESSORY ELECTRIC EQUIPMENT 84.517 2.70 85.277 2.72 (760) (0.02) (41) 316.00 MISCELLANEOUS POWER PLANT EQUIPMENT 577 3.33 614 3.54 (37) (0.21) (42) TOTAL COMMON - ALL STEAM PLANTS 1.258,373 1.121,897 136,476 (43) TOTAL STEAM PRODUCTION PLANT 180,992,780 192,375,575 (11,382,795) NUCLEAR PRODUCTION PLANT (44) 321.00 STRUCTURES AND IMPROVEMENTS 18,166,179 1.88 14,857,503 1.54 3.308,676 0.34 (44) 321.00 STRUCTURES AND IMPROVEMENTS 18,166,179 1.88 14,857,503 1.54 3.308,676 0.34 (44) 321.00 STRUCTURES AND IMPROVEMENTS 18,166,179 1.88 14,857,503 1.54	(37)		TOTAL RUSH ISLAND STEAM PRODUCTION PLANT	26,822,718		25,652,276		1,170,442		
(43) TOTAL STEAM PRODUCTION PLANT 180,992,780 192,375,575 (11,382,795) NUCLEAR PRODUCTION PLANT CALLAWAY NUCLEAR PRODUCTION PLANT CALLAWAY NUCLEAR PRODUCTION PLANT (44) 321.00 STRUCTURES AND IMPROVEMENTS 18,166,179 1.88 14,857,503 1.54 3,308,676 0.34 (44) 321.00 STRUCTURES AND IMPROVEMENTS 18,664,665 2.80 38,569,913 2.95 (1,921,248) (0.15) (46) 323.00 TURBOGENERATOR UNITS 13,719,360 2.51 14,543,630 2.66 (824,270) (0.15) (48) 325.00 MISCELLANEOUS POWER PLANT EQUIPMENT 4,951,664 3.41 6,832,243 4.71 (1,880,579) (1.30) (49) 325.21 MISCELLANEOUS POWER PLANT EQUIPMENT 4,951,664 3.41 6,832,243 4.71 (1,880,579) (1.30) (49) 325.23 MISCELLANEOUS POWER PLANT EQUIPMENT 282,621 6.69 331,844 7.59 (39,223) (0.90) (50) 325.23 MISCELLANEOUS POWER PLANT EQUIPMENT 282,621 6.69 331,844 7.59 (39,223) (0.90) (51) 325.23	(39) (40) (41)	312.00 315.00	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	1,121,205 84,517 577	3.08 2.70	982,935 85,277 614	2.70 2.72	138,270 (760) (37)	(0.06) 0.38 (0.02) (0.21)	
Auclear Production Plant Callaway Nuclear Production Plant Callaway Nuclear Production Plant Callaway Nuclear Production Plant (44) 321.00 STRUCTURES AND IMPROVEMENTS 18,166,179 1.88 14,857,503 1.54 3,308,676 0.34 (45) 322.00 REACTOR PLANT EQUIPMENT 36,648,665 2.80 38,569,913 2.95 (1,921,248) (0.15) (46) 323.00 TURBOGENERATOR UNITS 13,719,360 2.51 14,543,830 2.66 (824,270) (0.16) (47) 325.00 MISCELLANEOUS POWER PLANT EQUIPMENT 6,155,006 2.23 5,668,304 2.05 486,702 0.18 (48) 325.00 MISCELLANEOUS POWER PLANT EQUIPMENT 4,951,664 3.41 6,832,243 4.71 (1,880,579) (1.30) (49) 325.21 MISCELLANEOUS POWER PLANT EQUIPMENT 4.951,664 3.41 6,832,243 4.71 (1,880,579) (1.30) (49) 325.21 MISCELLANEOUS POWER PLANT EQUIPMENT 292,621 6.69 331,844 7.59 <td>. ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	. ,									
Kalaway Nuclear Production Plant 18,166,179 1.88 14,857,503 1.54 3,308,676 0.34 (45) 322.00 REACTOR PLANT EQUIPMENT 36,648,665 2.80 38,569,913 2.95 (1,921,248) (0,15) (46) 323.00 TURBOGENERATOR UNITS 13,719,360 2.51 14,543,630 2.66 (824,270) (0,15) (47) 324.00 ACCESSORY ELECTRIC GUIPMENT 6,155,006 2.23 5,668,304 2.06 (824,270) (0,15) (48) 325.00 MISCELLANEOUS POWER PLANT EQUIPMENT 4,951,664 3.41 6,832,243 4.71 (1,880,579) (1,30) (49) 325.21 MISCELLANEOUS POWER PLANT EQUIPMENT 4,951,664 3.41 6,832,243 4.71 (1,880,579) (1,30) (50) 325.22 MISCELLANEOUS POWER PLANT EQUIPMENT 282,621 6.69 331,844 7.59 (39,223) (0,90) (51) 325.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 1,335,561 19.77 1,580,051 2.94 (214,490)	(43)		IOTAL STEAM PRODUCTION PLANT	180,992,780		192,375,575		(11,382,795)		
(44) 321.00 STRUCTURES AND IMPROVEMENTS 18,166,179 1.88 14,857.503 1.54 3,308,676 0.34 (45) 322.00 REACTOR PLANT EQUIPMENT 36,648,665 2.80 38,569,913 2.95 (1,921,248) (0.15) (46) 323.00 TURBOGENERATOR UNITS 13,719,360 2.51 14,543,630 2.66 (824,270) (0.15) (47) 324.00 ACCESSORY ELECTRIC GUIPMENT 6,155,006 2.23 5,668,304 2.05 486,702 0.18 (48) 325.00 MISCELLANEOUS POWER PLANT EQUIPMENT 4,951,664 3.41 6,832,243 4.71 (1,880,579) (1,30) (49) 325.21 MISCELLANEOUS POWER PLANT EQUIPMENT 4,951,664 3.41 6,832,243 4.71 (1,880,579) (1,30) (50) 325.22 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNITURE 385,873 4.96 417,291 5.36 (31,418) (0.40) (50) 325.22 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE EQUIPMENT 292,621 6.69 331,844			NUCLEAR PRODUCTION PLANT							
(45) 322.00 REACTOR PLANT EQUIPMENT 36,648,665 2.80 38,569,913 2.95 (1,921,248) (0,15) (46) 323.00 TURBOGENERATOR UNITS 13,719,360 2.51 14,543,630 2.66 (624,270) (0,15) (47) 324.00 ACCESSORY ELECTRIC GUIPMENT 6,155,006 2.23 5,668,304 2.05 486,702 0.18 (48) 325.00 MISCELLANEOUS POWER PLANT EQUIPMENT 4,951,664 3.41 6,832,243 4.71 (1,880,579) (1,30) (49) 325.21 MISCELLANEOUS POWER PLANT EQUIPMENT 4,951,664 3.41 6,832,243 4.71 (1,880,579) (1,30) (50) 325.22 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNITURE 38,873 4.96 417,291 5.36 (31,418) (0.40) (50) 325.22 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE EQUIPMENT 292,621 6.69 331,844 7.59 (39,223) (0.90) (51) 325.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 1,335,561 19.77 <td< td=""><td></td><td></td><td>CALLAWAY NUCLEAR PRODUCTION PLANT</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			CALLAWAY NUCLEAR PRODUCTION PLANT							
(52) TOTAL NUCLEAR PRODUCTION PLANT 81,654,929 82,770,779 (1,115,850)	(45) (46) (47) (48) (49) (50)	322.00 323.00 324.00 325.00 325.21 325.22	REACTOR PLANT EQUIPMENT TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE EQUIPMENT	36,648,665 13,719,360 6,155,006 4,951,664 385,873 292,621	2.80 2.51 2.23 3.41 4.96 6.69	38,569,913 14,543,630 5,668,304 6,832,243 417,291 331,844	2.95 2.66 2.05 4.71 5.36 7.59	(1,921,248) (824,270) 486,702 (1,880,579) (31,418) (39,223)	(0.15) (0.15)	
	(52)		TOTAL NUCLEAR PRODUCTION PLANT	81,654,929		82,770,779		(1,115,850)		

AMEREN MISSOURI Case No. ER-2019-0335 Comparison of MIEC Phase One and Ameren Missouri Depreciation Rates and Accruals

LINE			MIEC PHAS		AMEREN PRO ANNUAL ACC		DELTA ANNUAL AC	
NO.		ACCOUNT	AMOUNT	RATE	AMOUNT	RATE	AMOUNT	RATE
		HYDRAULIC PRODUCTION PLANT						
		OSAGE HYDRAULIC PRODUCTION PLANT						
(53)	331.00	STRUCTURES AND IMPROVEMENTS	262,565	2.93	289,823	3.24	(27,258)	(0.31)
(54) (55)	332.00	RESERVOIRS, DAMS AND WATERWAYS	2,546,230	2.95	2,419,627	2.80	126,603	0.15
(56)	333.00 334.00	WATER WHEELS, TURBINES, AND GENERATORS ACCESSORY ELECTRIC EQUIPMENT	1,922,514 986,585	3.04 3.23	1,769,377 953,791	2.80 3.12	153,137 32,794	0.24 0.11
(57)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT	98,907	3.40	131,069	4.50	(32,162)	(1.10)
(58)	335.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	4,574	5.53	4,326	5.23	248	0.30
(59)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	7,645	7.83	7,204	7.38	441	0.45
(60) (61)	335.23 336.00	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS ROADS, RAILROADS AND BRIDGES	184,648 0	21.33	186,205 0	21.51	(1,557)	(0.18)
(62)	000.00	TOTAL OSAGE HYDRAULIC PRODUCTION PLANT	6,013,668		5,761,422		252,246	
()								
		TAUM SAUK HYDRAULIC PRODUCTION PLANT						
(63)	331.00	STRUCTURES AND IMPROVEMENTS	326,113	1.47	301,909	1.36	24,204	0.11
(64)	332.00	RESERVOIRS, DAMS AND WATERWAYS	119,056	1.16	265,739	2.59	(146,683)	(1.43)
(65) (66)	333.00 334.00	WATER WHEELS, TURBINES, AND GENERATORS ACCESSORY ELECTRIC EQUIPMENT	1,380,128 239,516	1.87 1.82	1,437,485 239,861	1.95 1.82	(57,357) (345)	(0.08) 0.00
(67)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT	102.911	2.16	115,682	2.43	(12,771)	(0.27)
(68)	335.21	MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE FURNITURE	7,499	5.38	7,118	5.11	381	0.27
(69)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	49,954	8.25	44,095	7.28	5,859	0.97
(70)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	69,599	21.06	39,565	11.97	30,034	9.09
(71)	336.00	ROADS, RAILROADS AND BRIDGES	4,552	1.96	3,234	1.39	1,318	0.57
(72)		TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT	2,299,330		2,454,688		(155,358)	
		KEOKUK HYDRAULIC PRODUCTION PLANT						
(73)	331.00	STRUCTURES AND IMPROVEMENTS	206,777	2.35	201,246	2.28	5,531	0.07
(74)	332.00	RESERVOIRS, DAMS AND WATERWAYS	354,642	1.93	302,534	1.64	52,108	0.29
(75) (76)	333.00 334.00	WATER WHEELS, TURBINES, AND GENERATORS	3,501,753	2.65 2.66	3,431,032	2.60	70,721	0.05
(76)	334.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	529,211 123,175	2.85	520,484 131,382	2.62 3.04	8,727 (8,207)	0.04 (0.19)
(78)	335.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	5,205	6.75	4,200	5.44	1,005	1.31
(79)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	9,803	8.09	8,879	7.33	924	0.76
(80)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	24,838	28.66	32,748	37.79	(7,910)	(9.13)
(81)	336.00	ROADS, RAILROADS AND BRIDGES	2,644	2.30	1,301	1.13	1,343	1.17
(82)		TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT	4,758,048		4,633,806		124,242	
(83)		TOTAL HYDRAULIC PRODUCTION PLANT	13,071,046		12,849,916		221,130	
		OTHER PRODUCTION PLANT						
(84)	341.00	STRUCTURES AND IMPROVEMENTS	1,010,336	2.05	1,188,780	2.41	(178,444)	(0.36)
(85)	342.00	FUEL HOLDERS, PRODUCERS AND ACCESSORIES	920,783	1.89	1,000,112	2.05	(79,329)	(0.16)
(86)	344.00	GENERATORS - OTHER CTS	17,035,826	1.70	16,598,907	1.66	436,919	0.04
(87) (88)	344.10 344.20	MARYLAND HEIGHTS LANDFILL CTG SOLAR	173,747	2.06 4.25	156,408	1.86 4.19	17,339	0.20 0.06
(88)	344.20 345.00	SOLAR ACCESSORY ELECTRIC EQUIPMENT	453,557 2,590,269	4.25	447,666 2,765,868	4.19 2.12	5,891 (175,599)	(0.13)
(90)	346.00	MISCELLANEOUS POWER PLANT EQUIPMENT	2,590,209	2.94	259,528	3.30	(173,333) (28,019)	(0.13)
(91)	346.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	(2,760)	(0.99)	17,257	6.19	(20,017)	(7.18)
(92)	346.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	13,137	2.83	36,999	7.96	(23,862)	(5.13)
(93)	346.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	24,205	12.19	64,770	32.62	(40,565)	(20.43)
(94)		TOTAL OTHER PRODUCTION PLANT	22,450,610		22,536,295		(85,685)	

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase Two Book Reserve Allocation

LINE NO.		ACCOUNT(1)	CALCULATED ACCRUED DEPRECIATION (2)	CAD DERIVED ALLOCATOR (3)	ALLOCATED BOOK RESERVE (4)	RESERVE IMBALANCE (5)=(4)-(2)	IMBALANCE PERCENTAGE (6)=(5)÷(4)
		STEAM PRODUCTION PLANT		.,		.,.,,,,,	.,.,,,,,,
		MERAMEC STEAM PRODUCTION PLANT					
(1) (2)	311.00 312.00	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT	40,627,955 355,899,560	2% 18%	43,200,852 378,438,053	2,572,897 22,538,493	6.3% 6.3%
(3)	314.00	TURBOGENERATOR UNITS	88,780,219	4%	94,402,514	5,622,295	6.3%
(4)	315.00	ACCESSORY ELECTRIC EQUIPMENT	43,487,471	2%	46,241,456	2,753,985	6.3%
(5) (6)	316.00 316.21	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	7,039,528 235,971	0% 0%	7,485,329 250,915	445,801 14,944	6.3% 6.3%
(7)	316.22	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT	197,090	0%	209,571	12,481	6.3%
(8)	316.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	112,592	0%	119,722	7,130	6.3%
(9)		TOTAL MERAMEC STEAM PRODUCTION PLANT	536,380,386	27.0%	570,348,412	33,968,026	6.3%
		SIOUX STEAM PRODUCTION PLANT					
(10)	311.00	STRUCTURES AND IMPROVEMENTS	27,725,517	1%	29,481,325	1,755,808	6.3%
(11) (12)	312.00 314.00	BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS	396,961,127	20%	422,099,977	25,138,850	6.3%
(12)	315.00	ACCESSORY ELECTRIC EQUIPMENT	74,107,163 53,857,521	4% 3%	78,800,239 57,268,223	4,693,076 3,410,702	6.3% 6.3%
(14)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	4,926,435	0%	5,238,417	311,982	6.3%
(15)	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	267,790	0%	284,749	16,959	6.3%
(16) (17)	316.22 316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	227,874 304,782	0% 0%	242,305 324,083	14,431 19,301	6.3% 6.3%
(18)		TOTAL SIOUX STEAM PRODUCTION PLANT	558,378,209	28.1%	593,739,318	35,361,109	6.3%
		LABADIE STEAM PRODUCTION PLANT					
(10)							
(19) (20)	311.00 312.00	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT	38,295,246 337,317,011	2% 17%	40,720,417 358,678,704	2,425,171 21,361,693	6.3% 6.3%
(20)	312.03	BOILER PLANT EQUIPMENT - ALUMINUM COAL CARS	34,914,913	2%	37,126,013	2,211,100	6.3%
(22)	314.00	TURBOGENERATOR UNITS	105,583,848	5%	112,270,287	6,686,439	6.3%
(23) (24)	315.00 316.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	46,243,024 6,402,241	2% 0%	49,171,513 6,807,684	2,928,489 405,443	6.3% 6.3%
(24)	316.00	MISCELLANEOUS FOWER FLANT EQUIPMENT	257,298	0%	273,592	16,294	6.3%
(26)	316.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	220,538	0%	234,504	13,966	6.3%
(27)	316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	536,019	0%	569,964	33,945	6.3%
(28)		TOTAL LABADIE STEAM PRODUCTION PLANT	569,770,138	28.6%	605,852,678	36,082,540	6.3%
		RUSH ISLAND STEAM PRODUCTION PLANT					
(29)	311.00	STRUCTURES AND IMPROVEMENTS	31,728,462	2%	33,737,770	2,009,308	6.3%
(30)	312.00	BOILER PLANT EQUIPMENT	183,242,775	9%	194,847,217	11,604,442	6.3%
(31) (32)	314.00 315.00	TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT	66,769,995 21,279,245	3% 1%	70,998,421 22,626,822	4,228,426 1,347,577	6.3% 6.3%
(33)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	3,886,334	0%	4,132,449	246,115	6.3%
(34)	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	275,814	0%	293,281	17,467	6.3%
(35) (36)	316.22 316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	189,403 252,577	0% 0%	201,398 268,572	11,995 15,995	6.3% 6.3%
(37)	010.20	TOTAL RUSH ISLAND STEAM PRODUCTION PLANT	307,624,605	15.5%	327,105,930	19,481,325	6.3%
(07)				10.070		13,401,020	0.070
		COMMON- ALL STEAM PLANTS					
(38)	311.00	STRUCTURES AND IMPROVEMENTS	837,199	0%	890,217	53,018	6.3%
(39) (40)	312.00 315.00	BOILER PLANT EQUIPMENT ACCESSORY ELECTRIC EQUIPMENT	15,187,209 1,348,568	1% 0%	16,148,988 1,433,970	961,779 85,402	6.3% 6.3%
(40)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	6,869	0%	7,304	435	6.3%
(42)		TOTAL COMMON- ALL STEAM PLANTS	17,379,845	0.9%	18,480,480	1,100,635	6.3%
(42)		TOTAL STEAM PRODUCTION PLANT	1,989,533,183	100.0%	2 115 526 919	125,993,635	6.3%
(43)		NUCLEAR PRODUCTION PLANT	1,303,333,103	100.078	2,115,526,818	123,993,035	0.3 %
		CALLA WAY NUCLEAR PRODUCTION PLANT					
(44)	324 00		500 702 200	220/	520 454 770	28 662 200	E 70/
(44) (45)	321.00 322.00	STRUCTURES AND IMPROVEMENTS REACTOR PLANT EQUIPMENT	500,792,389 563,669,096	33% 37%	529,454,779 595,930,176	28,662,390 32,261,080	5.7% 5.7%
(46)	323.00	TURBOGENERATOR UNITS	266,813,549	18%	282,084,376	15,270,827	5.7%
(47)	324.00	ACCESSORY ELECTRIC EQUIPMENT	122,691,253	8%	129,713,374	7,022,121	5.7%
(48) (49)	325.00 325.21	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	54,690,645 3,230,020	4% 0%	57,820,814 3,414,887	3,130,169 184,867	5.7% 5.7%
(50)	325.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FORMTORE MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	2,172,874	0%	2,297,236	124,362	5.7%
(51)	325.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	2,588,720	0%	2,736,883	148,163	5.7%
(52)		TOTAL NUCLEAR PRODUCTION PLANT	1,516,648,546	100.0%	1,603,452,525	86,803,979	5.7%

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase Two Book Reserve Allocation

(1) (2) (3) (4) (6) <th>LINE NO.</th> <th></th> <th>ACCOUNT</th> <th>CALCULATED ACCRUED DEPRECIATION</th> <th>CAD DERIVED ALLOCATOR</th> <th>ALLOCATED BOOK RESERVE</th> <th>RESERVE IMBALANCE</th> <th>IMBALANCE PERCENTAGE</th>	LINE NO.		ACCOUNT	CALCULATED ACCRUED DEPRECIATION	CAD DERIVED ALLOCATOR	ALLOCATED BOOK RESERVE	RESERVE IMBALANCE	IMBALANCE PERCENTAGE
DAGE HYDRAUL PRODUCTION FLAT 2.473.58 2.473.58 2.957.60 1.48.07 7.4% (3) 33.00 MEREST-WORK SAND VARTENYAYS 2.267.50 1.5% 2.287.23 1.5% 2.277.23 1.5% 2.277.23 1.5% 2.277.23 1.5% 2.267.23 1.5% 2.267.23 1.5% 2.267.23 1.5% 2.267.23 1.5% 2.267.23 1.5% 2.267.23 1.5% 2.267.23 1.5% 2.267.23 1.5% 2.267.23 1.5% 2.467.44 (4) 3.33.21 MESCLIANCOUS POWER PLAT EQUIPMENT OFFICE FUNCTIONE 2.267.210 3.045 2.061 7.46 (4) 3.35.62 A.467 4.267.210 3.045 5.369.22 7.46 (4) 3.35.62 A.467 4.267.100 3.045 5.369.42 7.46 (4) 3.250.26 3% 3.775.22 2.01.67 7.46 (5) 3.250.26 3% 3.775.22 2.01.67 7.46 (5) 3.250.26 3% 3.775.22 2.01			(1)	(2)	(3)	(4)	(5)=(4)-(2)	(6)=(5)÷(4)
(3) 311.0 STRUCTURES AND MYROVENENTS 2.472,538 7.9 2.657,608 144,072 7.4% (9) 333.0 INTERVIENELS, TUBBLES TERD CARENTORS 19.622,149 10 9.2237,231 1.430,072 7.4% (9) 333.0 INTERVIENELS, TUBBLES,			HYDRAULIC PRODUCTION PLANT					
(a) 332.00 RESERVORS. DMS. ADM VATEWAYS 19.42/145 19% 20.676.217 1.44.072 7.4% (b) 333.00 WATEW WELS. TURBINES, AND CENENTTORS 5.066.017 19% 22.207.283 1.631.269 7.4% (c) 333.00 MISCELLANEOUS POWER PLANT EQUIPMENT - CPICE FUNTURE 8.07.500 7.4% 1.440.07 7.4% (c) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT - CPICE FUNTURE 8.2.327 0.4 4.448 3.151 7.4% (c) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT - CPICE FUNTURE 8.2.327 0.4 4.448 3.151 7.4% (c) TOTAL CASCE HOBALUE PRODUCTION FLANT 4.3.427 0.4 4.448 3.151 7.4% (c) TOTAL CASCE HOBALUE PRODUCTION FLANT 4.977,103 3.4.4% 5.3.676.67 2.7.6% (d) 3.310 TRUTHERS AND ARROVEMENTS 3.514.266 3% 3.777.953 21.9.97 7.4% (d) 3.320 RESERVORS AND ARROVEMENTS 3.514.266 3% 3.277.953 21.9.97 7.4% </td <td></td> <td></td> <td>OSAGE HYDRAULIC PRODUCTION PLANT</td> <td></td> <td></td> <td></td> <td></td> <td></td>			OSAGE HYDRAULIC PRODUCTION PLANT					
(a) 332.00 RESERVORS. DMS. ADM VATEWAYS 19.42/145 19% 20.676.217 1.44.072 7.4% (b) 333.00 WATEW WELS. TURBINES, AND CENENTTORS 5.066.017 19% 22.207.283 1.631.269 7.4% (c) 333.00 MISCELLANEOUS POWER PLANT EQUIPMENT - CPICE FUNTURE 8.07.500 7.4% 1.440.07 7.4% (c) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT - CPICE FUNTURE 8.2.327 0.4 4.448 3.151 7.4% (c) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT - CPICE FUNTURE 8.2.327 0.4 4.448 3.151 7.4% (c) TOTAL CASCE HOBALUE PRODUCTION FLANT 4.3.427 0.4 4.448 3.151 7.4% (c) TOTAL CASCE HOBALUE PRODUCTION FLANT 4.977,103 3.4.4% 5.3.676.67 2.7.6% (d) 3.310 TRUTHERS AND ARROVEMENTS 3.514.266 3% 3.777.953 21.9.97 7.4% (d) 3.320 RESERVORS AND ARROVEMENTS 3.514.266 3% 3.277.953 21.9.97 7.4% </td <td>(53)</td> <td>331.00</td> <td>STRUCTURES AND IMPROVEMENTS</td> <td>2.473.536</td> <td>2%</td> <td>2,657,608</td> <td>184.072</td> <td>7.4%</td>	(53)	331.00	STRUCTURES AND IMPROVEMENTS	2.473.536	2%	2,657,608	184.072	7.4%
(a) 334.00 ACCESSOPY ELECTRIC EQUIPMENT 6.46.071 5% 6.336.680 4.60.37 7.4% (b) 335.00 MISCELLANCOLS POWER PLANT EQUIPMENT 27.2831 50.651 7.4% (c) 335.00 MISCELLANCOLS POWER PLANT EQUIPMENT. COMPLETES 23.322 0.4 26.431 2.151 7.4% (c) 335.00 MISCELLANCOLS POWER PLANT EQUIPMENT. COMPLETES 23.371 0.4 25.371 0.4 26.431 2.157 7.4% (c) 3360 ROADS, RALENDES POWER PLANT EQUIPMENT. COMPLETES 35.371 0.4 57.700 4.002 7.4% (c) 3360 ROADS, RALENDES POWER PLANT EQUIPMENT 49.377.103 34.4% 53.691.525 3.716.822 7.4% (c) 332.00 RESERVORS, DAM MANDERINS 3.516.256 3% 3.377.523 25.567 7.4% (c) 332.00 RESERVORS, DAM MANDERINS 3.519.256 3% 3.377.523 27.269 7.4% (c) 332.00 RESERVORS, DAM MANDERINS 3.519.256 3% 3.2								
(b): 335.00 MSECLANCOLS POWER PLANT COUPENET 072,800 1% 72,801 50,001 7.4% (b): 355.21 MSECLANCOLS POWER PLANT COUPENET 23,272 0% 30,433 2,108 7.4% (c): 355.22 MSECLANCOLS POWER PLANT COUPENES 23,271 0% 30,433 3,119 7.4% (c): TOTAL GAGE HYDRAULE PRODUCTION PLANT 49,371,00 34.4% 53,691,025 3,776,00 44,963 3,119 7.4% (c): TOTAL GAGE HYDRAULE PRODUCTION PLANT 49,371,00 34.4% 53,691,025 3,776,02 201,97 7.4% (c): Statistic PROUCTION PLANT 49,371,00 34.4% 53,691,025 3,776,02 201,97 7.4% (c): Statistic PROUCTION PLANT 49,371,00 34.4% 53,691,025 7,776,02 21,691,624 7.4% (c): Statistic PROUCTION PLANT 23,674,629 3% 3,777,623 21,691,674 74% (c): Statistic PROUCTION PLANT 23,674 24,682 74% 106,766 <td></td> <td></td> <td></td> <td></td> <td>16%</td> <td></td> <td></td> <td></td>					16%			
(8) 352-1 MISCLLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 23.327 0% 30.435 2.08 7.4% (8) 332.2 MISCLLANEOUS POWER PLANT EQUIPMENT - OXPUTERS 143.197 0% 153.010 10.033 7.4% (8) 332.2 MISCLLANEOUS POWER PLANT EQUIPMENT - OXPUTERS 143.197 0% 153.010 10.033 7.4% (9) 332.0 MISCLLANEOUS POWER PLANT EQUIPMENT - OXPUTERS 143.197 0% 153.010 377.023 20.16/7 7.4% (9) 331.00 STRUCTURES AND IMPROVEMENTS 3.519.264 3% 3.777.923 20.16/7 7.4% (9) 332.00 MISCLLANEOUS POWER PLANT EQUIPMENT 2.08.07 7.4% 13.444 7.4% (9) 332.00 MISCLLANEOUS POWER PLANT EQUIPMENT 2.08.07 7.75 2.09.07 7.4% (9) 332.21 MISCLLANEOUS POWER PLANT EQUIPMENT 2.08.06 0% 37.75 2.09.07 7.4% (7) 335.21 MISCLLANEOUS POWER PLANT EQUIPMENT 2.04.06 0% 37.								
(9) 33.22 MISCLLANEOUS POWE PLANT EQUIPMENT OF COLUMENT 42.342 0% 45.483 3.151 7.4% (9) 33.20 MISCLLANEOUS POWE PLANT EQUIPMENT ORDOR, ALROADS AND SINDERS 13.161 9.4% 53.87.90 40.902 7.4% (9) 33.60 MISCLLANEOUS POWE PLANT 49.973.103 39.4% 53.87.92 7.4% (9) 33.100 STRUCTURES AND IMPROVEMENTS 3.516.256 3% 3.779.223 261.687 7.4% (9) 332.00 STRUCTURES AND IMPROVEMENTS 3.516.256 3% 3.777.923 261.687 7.4% (9) 332.00 MISCLLANEOUS POWE PLANT 20.568.01 7.4% 7.4% (9) 332.00 MISCLLANEOUS POWE PLANT EQUIPMENT 3.516.256 3% 3.777.923 261.687 7.4% (9) 332.00 MISCLLANEOUS POWE PLANT EQUIPMENT 20.568.00 7.6% 3.777.923 261.687 7.4% (9) 332.00 MISCLLANEOUS POWE PLANT EQUIPMENT 20.568.00 7.6% 3.777.923 26.467 7.4% </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
(0) 352.2 MISCELLANEOUS POWER PLANT EQUIPMENT: COMPUTERS 143,157 0% 153,810 16,833 7.4% (0) 352.2 MISCELLANEOUS POWER PLANT EQUIPMENT: COMPUTERS 143,157 0% 153,810 16,833 7.4% (0) TOTAL OSAGE HYDRAULIC PRODUCTION PLANT 49,973,103 39.4% 53,891,825 3.718,842 7.4% (0) 33100 STEUCTURES AND IMPROVEMENTS 3.510,226 3% 3.7718,022 29.16/7 7.6% (9) 33300 WERE WINGES, AND GENERATORS 17.6%,440 3.868,666 267.269 7.6% (9) 33300 WERE WINGENERA AND GENERATORS 17.6%,440 3.858,661 3.27,444 7.4% (9) 33321 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNITURE 2.306,528 163,311 7.4% (9) 3332.2 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNITURE 2.306,528 163,311 7.4% (7) 33360 WACEN WER PLANT EQUIPMENT OFFICE FURNITURE 2.306,528 0.6% 3.42,644 13.73,76 7.4% (
(ii) 336.00 RAAS, RALEADAS AND BRIGGES 53.776 0% 57.700 4.022 7.4% (iii) TOTAL OSAGE HYDRAULIC PRODUCTION PLANT 49.073.103 39.4% 53.691.025 3718.622 7.4% (iii) STUD SAME HYDRAULIC PRODUCTION PLANT 49.073.103 39.4% 53.691.025 3718.622 7.4% (iii) STUD SAME HYDRAULIC PRODUCTION PLANT 49.073.103 351.462 355.862 357.75 20.697 7.4% (iii) STUD SAME AND SAME HYDRAULIC PRODUCTION PLANT 2.200.676 1% 13.964.83 13.12.444 7.4% (iii) STUD SAME AND SAME HYDRAUTIC COUNTERT 2.200.676 1% 17.10.2 49.242.8 7.4% (iii) STUD SAME AND SAME HYDRAUTIC COUNTERT 2.200.677 2% 2.399.53 10.375.74 2.600.73 7.4% (iii) SSEEL AND SAME AND SAME HYDRAULIC PRODUCTION PLANT 2.2234.03 0.377.57 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.600.375 2.60								
TAIM SAUK HYDRAULC PRODUCTION PLANT (93) 33100 STRUCTURES AND MEROVEMENTS 3.516,256 3% 3.777,523 251,667 7.4% (94) 332.00 REGERVOIRS, DAMS AND WATERWAYS 3.591,462 3% 3.886,661 207,259 7.4% (95) 33.00 ACCESSORY ELECTRIC EQUIPMENT 2.002,617 2% 2.366,528 163,911 7.4% (90) 33.00 MCSELLANEOUS POWER PLANT EQUIPMENT 2.002,817 2% 2.366,528 163,911 7.4% (91) 332.00 MCSELLANEOUS POWER PLANT EQUIPMENT 316,958 0% 322,264 2.7,78 7.4% (91) 332.00 ROADS, RAIREOADS AND BRIGGES 4,7,578 0% 24,44,459 2,7,78 2,74% (71) 330.00 ROADS, RAIREOADS AND BRIGGES 4,7,578 25,757 0% 51,119 3,41 7.4% (72) TOTAL TAUM SAUK HYDRAULC PRODUCTION PLANT 2444,559 2% 2,625,542 18,923 7.4% (73) S3100 ACCESSORY ELECTRIC BUINTMENT								
(3) 31.00 STRUCTURES AND IMPROVEMENTS 3.516.256 3% 3.777.923 201.667 7.4% (84) 322.00 RESERVOIRS, DAMS AND WATERWAYS 3.591.402 3% 3.585.661 267.299 7.4% (85) 323.00 WATER WAYS S.00 GENERATORS 1.285.400 1.4% 1.894.8131 1.214.44 7.4% (86) 334.00 ACCESSORY ELCTRIC CRUPHENT 2.206.071 2% 2.365.23 1.033.11 7.4% (87) 335.22 MSCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNTURE 36.066 6% 3.777.52 2.209 7.4% (70) 335.22 MSCELLANEOUS POWER PLANT EQUIPMENT OFFICE FURNTURE 36.066 6% 3.777.62 2.090 7.4% (71) 35.00 ROADS, RALIFORDS AND BRIDCES 47.576 0% 51.119 3.541 7.4% (72) TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT 2.426.821 1.97.36 7.4% (73) 331.00 STRUCTURES AND IMPROVEMENTS 2.444.699 2% 2.265.522 1.97.37	(62)		TOTAL OSAGE HYDRAULIC PRODUCTION PLANT	49,973,103	39.4%	53,691,925	3,718,822	7.4%
(64) 332.00 RESERVOIRS, DAMS AND WATERWAYS 3.581.402 3% 3.858.601 227.259 7.4% (65) 333.00 WATER WHELS, TURNES, AND CENERATORS 17.583.469 14% 16.944.91 13.12.444 7.4% (67) 336.00 MACCESSORY ELECTRIC EQUIPMENT 2.202.017 2% 2.365.528 143.311 7.4% (67) 336.00 MACCESSORY ELECTRIC EQUIPMENT OFFICE FURITURE 61.768 1% 71.1012 4.324.44 7.4% (70) 335.20 RISCELANEOUS POWER PLANT EQUIPMENT-OFFICE FURITURE 18.588 0% 3.22.44 2.137.98 7.4% (71) 336.00 ROADS, RALEOADS AND BRIDCES 47.578 0% 51.119 3.541 7.4% (72) TOTAL TAUM SAUK HYDRAULC PRODUCTION PLANT 28.275.520 2.23% 30.379.470 2.104.150 7.4% (73) 331.00 STRUCTURES AND MEROVEMENTS 2.446.650 2% 2.625.682 191.923 7.4% (74) 332.00 WATER WHEELS, TURBINES, AND CENERATORS 3.466.660 26%			TAUM SAUK HYDRAULIC PRODUCTION PLANT					
(65) 333.00 WATER WHEELS, TURBINES, AND COMMENT 17,638,468 14% 18,948,913 1.312,444 7.4% (67) 356.00 MISCELLANEOUS POWER PLANT EQUIPMENT 661,765 1% 711,012 49,245 7.4% (68) 353.01 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE EQUIPMENT 661,766 1% 711,012 49,246 7.4% (71) 336.00 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE EQUIPMENT 318,88 0% 326,894 23,738 7.4% (72) TOTAL TAUM SAUK HYDRAULC PRODUCTION PLANT 28,275,220 22,3% 30,379,470 2,104,150 7.4% (74) 331.00 STRUCTION PLANT 28,275,220 22,3% 30,379,470 2,104,150 7.4% (74) 332.00 RESERVOIRS, DMMS, AND WATERWAYS 7.468,351 9% 8,044,470 57,109 7.4% (74) 332.00 RESERVOIRS, AND MERENTS 2,444,859 2% 8,044,470 57,109 7.4% (74) 332.00 RESERVOIRS, AND MERENTORS 7,468,31 43,37,198 30,044 7.4% (74) 332.00 RESERVOIRS, A	(63)	331.00	STRUCTURES AND IMPROVEMENTS	3,516,256	3%	3,777,923	261,667	7.4%
(66) 334.00 ACCESSORY ELECTRIC EQUIPMENT 2.20217 2% 2.366.528 163.911 7.4% (67) 355.01 MISCELLANEOUS POWER PLANT EQUIPMENT 661.766 1% 77.75 2.609 7.4% (68) 355.21 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 318.098 0% 324.044 19.736 7.4% (71) 355.23 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 28.275.320 22.3% 30.379.470 2.104.150 7.4% (72) TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT 28.275.320 22.3% 30.379.470 2.104.150 7.4% (73) 31.00 STRUCTURES AND IMPROVEMENTS 2.444.659 2% 2.626.582 181.923 7.4% (74) 332.00 RESERVOIRS, DAMS AND WATERWAYS 7.468.51 6% 8.043.470 557.109 7.4% (73) 331.00 STRUCTURES AND IMPROVEMENT 4.035.80 24% 2.463.470 57.109 7.4% (74) 352.00 MISCELLANEOUS POWER PLANT EQUIPMENT 4.035.787 <					3%		267,259	
(67) 35.00 MISCELLANEOUS POWER PLANT EQUIPMENT 661,766 1% 711,112 49,246 7,4% (68) 352.21 MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE EUUPMENT 316,858 0% 324,264 23,736 7,4% (70) 355.22 MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE EUUPMENT 316,858 0% 324,944 19,736 7,4% (71) 336.00 ROADS, RALROADS AND BRIDGES 47,578 0% 51,119 3,511 7,4% (72) TOTAL TAUM SAUK HYDRAULC PRODUCTION PLANT 28,275,320 22,3% 30,379,470 2,104,150 7,4% (73) 331.00 STRUCTURES AND IMPROVEMENTS 2,444,659 2% 2,826,882 181,923 7,4% (74) 332.00 RESERVICES, MORS AND MARENVAYS 7,468,361 6% 3,849,2881 2,446,021 7,4% (74) 332.00 NATER WHELS, TURBINGS, AND GENERATORS 33,406,880 26% 3,582,2881 2,446,021 7,4% (75) 333.00 WATER WHELS, TURBINGS, AND GENERATORS 34,406,880 26% 3,582,2881 2,446,021 7,4% (76)								
(68) 335.21 MISCELLANEOUS POWER PLANT EQUIPMENT. OFFICE EURIMENT 318,958 0% 37,675 2,609 7,4% (70) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT. COMPUTERS 226,5208 0% 328,434 19,736 7,4% (71) 336.00 ROADS, RAUROADS AND BRIDGES 24,525,320 22,3% 30,379,470 2,104,150 7,4% (72) TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT 28,275,320 22,3% 30,379,470 2,104,150 7,4% (74) 332.00 STRUCTURES AND MPROVEMENTS 2,444,659 2% 2,626,582 161,923 7,4% (74) 332.00 RESERVOIRS, DAMS AND WATERWAYS 7,486,631 6% 8,043,470 557,109 7,4% (74) 332.00 RESERVOIRS, DAMS AND WATERWAYS 7,486,574 3% 4,337,198 300,404 7,4% (73) 334.00 ACCESSORY ELATHEOUS POWER PLANT EQUIPMENT 1033,198 116,107,01 76,889 7,4% (74) 332.00 MISCELLANEOUS POWER PLANT EQUIPMENT 10,386,774 3%								
(69) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT. OFFICE EQUIPMENT 318.958 0% 342.694 12.378 7.4% (71) 336.00 ROADS, RALROADS AND BRIDGES 47.578 0% 51,119 3.541 7.4% (72) TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT 28,275,320 22.3% 30,373,470 2,104,150 7.4% (73) 331.00 STRUCTURES AND MEROVEMENTS 2,444,659 2% 2,620,592 181,923 7.4% (74) 332.00 RESERVICES, DURA NOD WATERWAYS 7,446,569 2% 2,620,592 181,923 7,4% (75) 333.00 WATER WHERLS, TURBINES, AND GENERATORS 33,406,860 28% 35,892,881 2,486,021 7,4% (76) 334.00 ACCESSORY ELECTRIC EQUIPMENT 1,033,144 1% 1,110,070 76,886 7,4% (77) 355.00 MISCELLANEOUS POWER PLANT EQUIPMENT 16,035,744 3% 4,337,198 30,404 7,4% (78) 335.21 MISCELLANEOUS POWER PLANT EQUIPMENT 16,035,755 0% 63,127 4,372 7,4% (79) 352.22								
(70) 33.5.21 MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS 28.208 0% 244,944 19.736 7.4% (71) 33.600 ROADS, RALIROADS AND BRIDGES 24.5758 0% 51.119 3.541 7.4% (72) TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT 28.275,320 22.3% 30.379,470 2.104,150 7.4% (73) 331.00 STRUCTURES AND IMPROVEMENTS 2.444,859 2% 2.225,592 191,922 7.4% (73) 331.00 STRUCTURES AND IMPROVEMENTS 2.444,859 2% 2.626,592 191,922 7.4% (74) 332.00 RESERVOIRS DAMS AND WATENES INTRAFERETORS 37.488,361 6% 5.0463,470 557,109 7.4% (76) 333.00 MOSCELLANEOUS POWER PLANT EQUIPMENT 1.038,704 2.9% 3.4337,183 2.90,404 7.4% (77) 335.01 MISCELLANEOUS POWER PLANT EQUIPMENT 1.038,704 3.437,183 3.648 7.4% (78) 335.21 MISCELLANEOUS POWER PLANT EQUIPMENT 1.038,704 1.075,755 0% 63,127 4.372 7.4% (80) 335.22 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
(?) TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT 28,275,320 22.3% 30,379,470 2,104,150 7.4%, (?2) TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT 28,275,320 22.3% 30,379,470 2,104,150 7.4%, (?3) 331.00 STRUCTURES AND IMPROVEMITS 2,444,659 2% 2,626,582 181,923 7.4%, (?4) 333.00 WATER WHELS, TURBINES, AND GENERATORS 33,406,860 26% 35,892,881 2.446,021 7.4%, (?5) 333.00 WATER WHELS, TURBINES, AND GENERATORS 33,406,860 26% 35,892,881 2.446,021 7.4%, (?7) 335.01 MISCELLANEOUS POWER PLANT EQUIPMENT OFICE FUNITURE 44,215 0% 65,127 4,372 7.4%, (80) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 55,164 0% 60,335 4,131 7.4%, (81) 336.00 ROADS, RALIROADS AND BRIDGES 16,060,028 4% 17,508,804 90.776 5.4%, (82) TOTAL HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4%, (83) </td <td></td> <td>335.23</td> <td>MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS</td> <td></td> <td></td> <td></td> <td></td> <td>7.4%</td>		335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS					7.4%
KEOKUK HYDRAULIC PRODUCTION PLANT (73) 331.00 STRUCTURES AND IMPROVEMENTS 2,444.659 2% 2,626.582 181.923 7,4% (74) 332.00 RESERVOIRS, DANS AND WATERWAYS 7,486.361 6% 8,043.470 557.109 7,4% (75) 333.00 WATER WHEELS, TURBINES, AND GENERATORS 33,3406.860 26% 35,892.881 2,446.021 7,4% (77) 335.00 MISCELLANEOUS POWER PLANT EQUIPMENT 4,036,794 3% 4,337.198 300.404 7,4% (79) 335.21 MISCELLANEOUS POWER PLANT EQUIPMENT 51.803 3,588 7,4% (80) 335.23 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FUNITURE 48,275 0% 63,127 4,372 7,4% (81) 336.00 ROADS, RAILROADS AND RIDGES 56,520 0% 60,726 4,206 7,4% (82) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7,4% (82) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 126,875,955	(71)	336.00	ROADS, RAILROADS AND BRIDGES	47,578	0%	51,119	3,541	7.4%
(73) 331.00 STRUCTURES AND IMPROVEMENTS 2.444,659 2% 2.626,582 181,923 7.4% (74) 332.00 RESERVOIRS, DAMS AND WATERWAYS 7.446,361 6% 8.043,470 557,109 7.4% (76) 333.00 WATER WHELS, TURNINS, AND GENERATORS 33.406,860 20% 5.58,22,81 2.486,021 7.4% (77) 335.00 MATER WHELS, TURNINS, AND GENERATORS 33.404,474 3% 4.337,198 300.404 7.4% (77) 335.01 MISCELLANEOUS POWER PLANT EQUIPMENT 1.033,184 1% 1.11,070 76,886 7.4% (78) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 58,755 0% 63,127 4.372 7.4% (80) 335.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTENS 56,184 0% 60,365 4.181 7.4% (81) 336.00 ROADS, RAILROADS AND BRIDGES 56,520 0% 60,726 4.206 7.4% (82) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 48,627,532 38.3% 52,246,221 3,618,689 7.4% (83) TOTAL	(72)		TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT	28,275,320	22.3%	30,379,470	2,104,150	7.4%
(74) 332.00 RESERVOIRS, DAMS AND WATERWAYS 7,466,381 6% 8,043,470 557,109 7,4% (75) 333.00 WATER WHEELS, TURBINES, AND GENERATORS 33,406,880 26% 35,802,881 2,486,021 7,4% (76) 333.00 MCCELSORY ELECTRIC EQUIPMENT 4,006,794 3% 4,337,198 2,486,021 7,4% (77) 335.00 MISCELLANEOUS POWER PLANT EQUIPMENT 1,033,184 1% 1,110,170 76,886 7,4% (78) 335.21 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 48,215 0% 63,127 4,372 7,4% (80) 352.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 56,184 0% 60,365 4,181 7,4% (81) 336.00 ROADS, RAILROADS AND BRIDGES 56,184 0% 60,265 4,206 7,4% (82) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7,4% (83) TOTAL HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7,4% (84) 341.00			KEOKUK HYDRAULIC PRODUCTION PLANT					
(75) 333.00 WATER WHEELS, TURBINES, AND GENERATORS 33,406,860 26% 35,692,881 2,486,021 7,4% (76) 334.00 ACCESSORY ELECTRIC EQUIPMENT 4.036,794 3% 4,337,198 300.040 7,4% (77) 335.00 MISCELLANEOUS POWER PLANT EQUIPMENT 0.716,886 7,4% 7,4% (78) 333.22 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE EQUIPMENT 48,215 0% 51,003 3,588 7,4% (79) 335.00 MISCELLANEOUS POWER PLANT EQUIPMENT OFFICE EQUIPMENT 56,520 0% 60,3127 4,372 7,4% (80) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 56,520 0% 60,326 4,181 7,4% (81) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 45,627,532 38.3% 52,246,221 3,618,689 7,4% (82) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7,4% (83) 341.00 STRUCTURES AND MEROVEMENTS 16,608,028 4% 17,508,804 900,776 5,4% (86) 344.00 GENERATORS - O								
(76) 334.00 ACCESSORY ELECTRIC EQUIPMENT 4.036,794 3% 4.337,198 300,404 7.4% (77) 335.00 MISCELLANEOUS POWER PLANT EQUIPMENT 1.033,184 1% 1.110,070 76,886 7.4% (78) 335.22 MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE 48,215 0% 63,127 4.372 7.4% (80) 335.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 56,154 0% 60,325 4,181 7.4% (81) 336.00 ROADS, RALROADS AND BRIDGES 56,152 0% 60,726 4.206 7.4% (82) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 48,627,532 38.3% 52,246,221 3,618,689 7.4% (83) TOTAL HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4% (84) 341.00 STRUCTURES AND IMPROVEMENTS 16,608,028 4% 17,508,804 900,776 5.4% (86) 344.00 EURERATORS. OTHER CTS 16,608,028 4% 10,03% 15,186,825 781,266 5.4% (87) 34.10 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
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(80) 335.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 56,184 0% 60,365 4,181 7.4% (81) 336.00 ROADS, RAILROADS AND BRIDGES 56,520 0% 60,726 4.206 7.4% (82) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 48,627,532 38.3% 52,246,221 3,618,689 7.4% (83) TOTAL HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4% OTHER PRODUCTION PLANT 126,875,955 100.0% 136,517,616 9,441,661 7.4% OTHER PRODUCTION PLANT 126,875,955 100.0% 136,517,616 9,441,661 7.4% OTHER PRODUCTION PLANT 126,875,955 14,404,559 3% 15,185,825 781,266 5.4% (
(81) 336.00 ROADS, RAILROADS AND BRIDGES 56,520 0% 60,726 4,206 7.4% (82) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 48,627,532 38.3% 52,246,221 3,618,689 7.4% (83) TOTAL HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4% OTHER PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4% OTHER PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4% OTHER PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4% (84) 341.00 STRUCTURES AND IMPROVEMENTS 16,608,028 4% 17,508,804 900,776 5.4% (85) 342,00 FUEL HOLDERS, PRODUCERS AND ACCESSORIES 14,404,559 3% 15,186,825 781,266 5.4% (86) 344,00 GENERATORS, OTHER CTS 380,331,328 82% 400,956,509 20,628,181 5.4% (87) 344,10 MARYLAND HEIGHTS LANDFILL CTG 2,834,540 1%								
(82) TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT 48,627,532 38.3% 52,246,221 3,618,689 7.4% (83) TOTAL HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4% (84) 341.00 STRUCTURES AND IMPROVEMENTS 16,608,028 4% 17,508,804 900,776 5.4% (85) 342.00 FUEL HOLDERS, PRODUCERS AND ACCESSORIES 14,404,559 3% 15,185,825 781,266 5.4% (86) 344.00 GENERATORS - OTHER CTS 2,639,233 1% 2,782,237 143,145 5.4% (87) 344.10 MARYLAND HEIGHTS LANDFILL CTG 2,839,233 1% 2,782,378 143,145 5.4% (89) 345.00 ACCESSORY ELECTRIC EQUIPMENT 46,015,400 10% 48,511,155 2,495,755 5.4% (90) 346.01 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 20,295 0% 213,963 11,008 5.4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 20,295 0% 213,963 11,008 5.4% (93) 346.23 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
(83) TOTAL HYDRAULIC PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4% OTHER PRODUCTION PLANT 126,875,955 100.0% 136,317,616 9,441,661 7.4% (84) 341.00 STRUCTURES AND IMPROVEMENTS 16,608,028 4% 17,508,804 900,776 5.4% (85) 342.00 FUEL HOLDERS, PRODUCERS AND ACCESSORIES 14,404,559 3% 15,185,825 781,266 5.4% (86) 344.00 GENERATORS - OTHER CTS 380,331,328 82% 400,959,509 20,628,181 5.4% (87) 344.10 MARYLAND HEIGHTS LANDFILL CTG 2,639,233 1% 2,488,278 153,738 5.4% (89) 345.00 ACCESSORY ELECTRIC EQUIPMENT 46,015,400 10% 48,511,155 2,495,755 5.4% (90) 346.01 MISCELLANEOUS POWER PLANT EQUIPMENT 28,495 0% 213,963 11,008 5.4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 288,495 0% 23,301,356 16,80		336.00						
OTHER PRODUCTION PLANT 16.608,028 4% 17.508,804 900,776 5.4% (84) 341.00 STRUCTURES AND IMPROVEMENTS 16.608,028 4% 17.508,804 900,776 5.4% (85) 342.00 FUEL HOLDERS, PRODUCERS AND ACCESSORIES 14.404,559 3% 15,185,825 781,266 5.4% (86) 344.00 GENERATORS - OTHER CTS 380,331,328 82% 400,959,509 20,628,181 5.4% (87) 344.10 MARYLAND HEIGHTS LANDFILL CTG 2,639,233 1% 2,982,278 153,738 5.4% (89) 345.00 ACCESSORY ELECTRIC EQUIPMENT 46,015,400 10% 48,511,155 2,495,755 5.4% (90) 346.00 MISCELLANEOUS POWER PLANT EQUIPMENT 3,131,511 1% 3,301,356 169,845 5.4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 202,955 0% 213,963 11,008 5.4% (93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 283,	(82)		TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT	48,627,532	38.3%	52,246,221	3,618,689	7.4%
(84) 341.00 STRUCTURES AND IMPROVEMENTS 16,608,028 4% 17,508,804 900,776 5.4% (85) 342.00 FUEL HOLDERS, PRODUCERS AND ACCESSORIES 14,404,559 3% 15,185,825 781,266 5.4% (86) 344.00 GENERATORS - OTHER CTS 380,331,328 82% 400,959,509 20,628,181 5.4% (87) 344.10 MARYLAND HEIGHTS LANDFILL CTG 2,834,540 1% 2,988,278 153,738 5.4% (89) 345.00 SOLAR 2,639,233 1% 2,782,378 143,145 5.4% (90) 360.00 MISCELLANEOUS POWER PLANT EQUIPMENT 46,015,400 10% 48,511,155 2,495,755 5.4% (91) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 202,955 0% 213,963 11,008 5.4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 283,057 14,562 5.4% (93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 103,205 5,310 5.4% (94	(83)		TOTAL HYDRAULIC PRODUCTION PLANT	126,875,955	100.0%	136,317,616	9,441,661	7.4%
(85) 342.00 FUEL HOLDERS, PRODUCERS AND ACCESSORIES 14,404,559 3% 15,185,825 781,266 5.4% (86) 344.00 GENERATORS - OTHER CTS 380,331,328 82% 400,959,509 20,628,181 5.4% (86) 344.00 MARYLAND HEIGHTS LANDFILL CTG 2,834,540 1% 2,988,278 153,738 5.4% (88) 344.20 SOLAR 2,639,233 1% 2,782,378 143,145 5.4% (89) 345.00 ACCESSORY ELECTRIC EQUIPMENT 46,015,400 10% 48,511,155 2,495,755 5.4% (90) 346.01 MISCELLANEOUS POWER PLANT EQUIPMENT 3,131,511 1% 3,301,356 168,845 5.4% (91) 346.21 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 202,955 0% 213,963 11,008 5.4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 283,057 14,562 5.4% (93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 97,895 0% 103,205 5,310 5.4% (94)			OTHER PRODUCTION PLANT					
(85) 342.00 FUEL HOLDERS, PRODUCERS AND ACCESSORIES 14,404,559 3% 15,185,825 781,266 5.4% (86) 344.00 GENERATORS - OTHER CTS 380,331,328 82% 400,959,509 20,628,181 5.4% (87) 344.10 MARYLAND HEIGHTS LANDFILL CTG 2.834,540 1% 2.988,278 153,738 5.4% (88) 344.20 SOLAR 2,639,233 1% 2.782,378 143,145 5.4% (89) 345.00 ACCESSORY ELECTRIC EQUIPMENT 46,015,400 10% 48,511,155 2.495,755 5.4% (90) 346.01 MISCELLANEOUS POWER PLANT EQUIPMENT 3,131,511 1% 3.301,356 169,845 5.4% (91) 346.21 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 202,955 0% 213,963 11,008 5.4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 283,057 14,562 5.4% (93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 97,895 0% 103,205 5,310 5.4% (94)	(84)	341.00	STRUCTURES AND IMPROVEMENTS		4%	17,508,804	900,776	5.4%
(87) 344.10 MARYLAND HEIGHTS LANDFILL CTG 2,834,540 1% 2,988,278 153,738 5.4% (88) 344.20 SOLAR 2,639,233 1% 2,782,378 143,145 5.4% (89) 345.00 ACCESSORY ELECTRIC EQUIPMENT 46,015,400 10% 48,511,155 2,496,5755 5.4% (90) 346.00 MISCELLANEOUS POWER PLANT EQUIPMENT 3,131,511 1% 3,30,356 169,845 5.4% (91) 346.21 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 202,955 0% 213,963 11,008 5.4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 283,057 14,562 5.4% (93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 97,895 0% 103,205 5,310 5.4% (94) TOTAL OTHER PRODUCTION PLANT 466,533,944 100.0% 491,837,530 25,303,586 5.4%				14,404,559		15,185,825		
(88) 344.20 SOLAR 2,639,233 1% 2,782,378 143,145 5,4% (89) 345.00 ACCESSORY ELECTRIC EQUIPMENT 46,015,400 10% 48,511,155 2,495,755 5,4% (90) 346.00 MISCELLANEOUS POWER PLANT EQUIPMENT 3,131,511 1% 3,301,356 169,845 5,4% (91) 346.21 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 202,955 0% 213,963 11,008 5,4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 283,057 14,562 5,4% (93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 97,895 0% 103,205 5,310 5,4% (94) TOTAL OTHER PRODUCTION PLANT 466,533,944 100.0% 491,837,530 25,303,586 5,4%								
(89) 346.00 ACCESSORY ELECTRIC EQUIPMENT 46,015,400 10% 48,511,155 2,495,755 5,4% (90) 346.00 MISCELLANEOUS POWER PLANT EQUIPMENT 3,131,511 1% 3,01,356 169,845 5,4% (91) 346.21 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 202,955 0% 213,963 11,008 5,4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 283,057 14,662 5,4% (93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 97,895 0% 103,205 5,310 5,4% (94) TOTAL OTHER PRODUCTION PLANT 466,533,944 100.0% 491,837,530 25,303,586 5,4%								
(90) 346.00 MISCELLANEOUS POWER PLANT EQUIPMENT 3,131,511 1% 3,301,356 169,845 5,4% (91) 346.21 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 202,955 0% 213,963 11,008 5,4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 283,057 14,562 5,4% (93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 97,895 0% 103,205 5,310 5,4% (94) TOTAL OTHER PRODUCTION PLANT 466,533,944 100.0% 491,837,530 25,303,586 5,4%								
(91) 346.21 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE 202,955 0% 213,963 11,008 5.4% (92) 346.22 MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT 268,495 0% 283,057 14,562 5.4% (93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 97,895 0% 103,205 5,310 5.4% (94) TOTAL OTHER PRODUCTION PLANT 466,533,944 100.0% 491,837,530 25,303,586 5.4%								
(93) 346.23 MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS 97,895 0% 103,205 5,310 5.4% (94) TOTAL OTHER PRODUCTION PLANT 466,533,944 100.0% 491,837,530 25,303,586 5.4%	(91)	346.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	202,955		213,963	11,008	
(94) TOTAL OTHER PRODUCTION PLANT 466,533,944 100.0% 491,837,530 25,303,586 5.4%						283,057		
	(93)	346.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	97,895	0%	103,205	5,310	5.4%
(95) TOTAL PRODUCTION PLANT 4,099,591,628 100.0% 4,347,134,489 247,542,861 6.0%	(94)		TOTAL OTHER PRODUCTION PLANT	466,533,944	100.0%	491,837,530	25,303,586	5.4%
	(95)		TOTAL PRODUCTION PLANT	4,099,591,628	100.0%	4,347,134,489	247,542,861	6.0%

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase Two Depreciation Rates

LINE			PROBABLE	SURVIVOR	NET SALVAGE	ORIGINAL COST AS OF	ALLOCATED BOOK	FUTURE	CALCUL ANNUAL A	CCRUAL	COMPOSITE
NO.		ACCOUNT(1)	<u>DATE</u> (2)	<u>CURVE</u> (3)	PERCENT (4)	DECEMBER 31, 2018 (5)	RESERVE (6)	ACCRUALS (7)	AMOUNT (8)	RATE (9)=(8)/(5)	LIFE (10)
		STEAM PRODUCTION PLANT									
		MERAMEC STEAM PRODUCTION PLANT									
	311.00	STRUCTURES AND IMPROVEMENTS	09-2022	90-R1.5	0	49,694,024	43,200,852	6,493,172	1,743,712	3.51	3.72
	312.00 314.00	BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS	09-2022 09-2022	55-R0.5 60-S0.5	(1)	449,450,037 112.835.475	378,438,053 94,402,514	75,506,485 18,432,961	20,514,797 4,979.057	4.56 4.41	3.68 3.70
	315.00	ACCESSORY ELECTRIC EQUIPMENT	09-2022	75-S0	0	57,843,695	46,241,456	11,602,239	3,121,611	5.40	3.70
(5)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	09-2022	40-L0	0	10,042,922	7,485,329	2,557,593	704,621	7.02	3.63
	316.21 316.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT		20-S0 15-SQ	0	478,958 349,114	250,915 209,571	228,044 139,542	23,866 23,405	4.98 6.70	9.55 5.96
	316.22	MISCELLANEOUS FOWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS		5-SQ	0	260,928	119,722	141,206	61,942	23.74	2.28
(9)		TOTAL MERAMEC STEAM PRODUCTION PLANT				680,955,153	570,348,412	115,101,242	31,173,012	4.58	3.69
		SIOUX STEAM PRODUCTION PLANT									
	311.00	STRUCTURES AND IMPROVEMENTS	09-2033	90-R1.5	(1)	57,644,417	29,481,325	28,739,536	1,994,762	3.46	14.41
	312.00 314.00	BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS	09-2033 09-2033	55-R0.5 60-S0.5	(3) (1)	959,178,604 164,593,128	422,099,977 78,800,239	565,853,986 87,438,820	41,022,325 6,205,380	4.28 3.77	13.79 14.09
	315.00	ACCESSORY ELECTRIC EQUIPMENT	09-2033	75-S0	(1)	127,824,998	57,268,223	71,835,025	5,043,071	3.95	14.09
(14)	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	09-2033	40-L0	0	13,764,462	5,238,417	8,526,045	659,186	4.79	12.93
	316.21 316.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT		20-SQ 15-SQ	0	1,153,502 404,152	284,749 242,305	868,753 161,847	58,127 14,576	5.04 3.61	14.95 11.10
	316.23	MISCELLANEOUS FOWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS		5-SQ	0	404,152 505,484	324,083	181,400	74,979	14.83	2.42
(18)		TOTAL SIOUX STEAM PRODUCTION PLANT				1,325,068,747	593,739,318	763,605,413	55,072,406	4.16	13.87
		LABADIE STEAM PRODUCTION PLANT									
	311.00	STRUCTURES AND IMPROVEMENTS	09-2042	90-R1.5	(2)	129,958,084	40,720,417	91,836,829	4,011,697	3.09	22.89
	312.00	BOILER PLANT EQUIPMENT	09-2042	55-R0.5	(6)	1,019,643,582	358,678,704	722,143,493	34,348,197	3.37	21.02
	312.03 314.00	BOILER PLANT EQUIPMENT - ALUMINUM COAL CARS TURBOGENERATOR UNITS	09-2042	30-R2.5 60-S0.5	25 (2)	78,356,568 253,612,210	37,126,013 112,270,287	21,641,413 146,414,167	1,574,338 6,839,769	2.01 2.70	13.75 21.41
	315.00	ACCESSORY ELECTRIC EQUIPMENT	09-2042	75-S0	(2)	117,531,789	49,171,513	70,710,912	3,195,556	2.72	22.13
	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	09-2042	40-L0	0	18,131,397	6,807,684	11,323,714	618,987	3.41	18.29
	316.21 316.22	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT		20-SQ 15-SQ	0	685,482 474,348	273,592 234,504	411,890 239,844	34,607 29,928	5.05 6.31	11.90 8.01
	316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS		5-SQ	0	1,554,304	569,964	984,340	318,617	20.50	3.09
(28)		TOTAL LABADIE STEAM PRODUCTION PLANT				1,619,947,765	605,852,678	1,065,706,601	50,971,695	3.15	20.91
		RUSH ISLAND STEAM PRODUCTION PLANT									
(29)	311.00	STRUCTURES AND IMPROVEMENTS	09-2045	90-R1.5	(2)	97,508,417	33,737,770	65,720,816	2,570,236	2.64	25.57
	312.00	BOILER PLANT EQUIPMENT	09-2045	55-R0.5	(7)	544,885,857	194,847,217	388,180,649	16,740,684	3.07	23.19
	314.00 315.00	TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT	09-2045 09-2045	60-S0.5 75-S0	(3) (2)	168,172,021 56,059,486	70,998,421 22,626,822	102,218,760 34,553,854	4,324,815 1,405,031	2.57 2.51	23.64 24.59
	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	09-2045	40-L0	0	14,402,183	4,132,449	10,269,734	503,743	3.50	20.39
	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE		20-SQ	0	548,415	293,281	255,134	27,212	4.96	9.38
	316.22 316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS		15-SQ 5-SQ	0 0	471,772 1,305,162	201,398 268,572	270,375 1,036,590	24,482 260,880	5.19 19.99	11.04 3.97
(37)		TOTAL RUSH ISLAND STEAM PRODUCTION PLANT				883,353,313	327,105,930	602,505,911	25,857,083	2.93	23.30
		COMMON- ALL STEAM PLANTS									
	311.00	STRUCTURES AND IMPROVEMENTS	09-2042	90-R1.5	(2)	1,976,445	890,217	1,125,756	49,374	2.50	22.80
	312.00 315.00	BOILER PLANT EQUIPMENT ACCESSORY ELECTRIC EQUIPMENT	09-2042 09-2042	55-R0.5 75-S0	(6) (2)	36,395,109 3,129,975	16,148,988 1,433,970	22,429,828 1,758,604	1,068,038 80,007	2.93 2.56	21.00 21.98
	316.00	MISCELLANEOUS POWER PLANT EQUIPMENT	09-2042	40-L0	0	17,331	7,304	10,027	549	3.17	18.25
(42)		TOTAL COMMON - ALL STEAM PLANTS				41,518,860	18,480,480	25,324,215	1,197,969	2.89	21.14
(43)		TOTAL STEAM PRODUCTION PLANT				4,550,843,838	2,115,526,818	2,572,243,382	164,272,165	3.61	15.66
(43)		TOTAL STEAM PRODUCTION PLANT				4,550,843,838	2,115,526,818	2,572,243,382	164,272,165	3.61	

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase Two Depreciation Rates

		10001017	PROBABLE RETIREMENT	SURVIVOR	NET SALVAGE	ORIGINAL COST AS OF	ALLOCATED BOOK	FUTURE		CCRUAL	COMPOSITE REMAINING
NO.		ACCOUNT(1)	<u>DATE</u> (2)	<u>CURVE</u> (3)	PERCENT (4)	DECEMBER 31, 2018 (5)	RESERVE (6)	ACCRUALS (7)	AMOUNT (8)	RATE (9)=(8)/(5)	LIFE (10)
		NUCLEAR PRODUCTION PLANT									
		CALLAWAY NUCLEAR PRODUCTION PLANT									
(44)	321.00	STRUCTURES AND IMPROVEMENTS	10-2044	90-R2	(1)	966,505,827	529,454,779	446,716,106	18,166,179	1.88	24.59
(45)	322.00	REACTOR PLANT EQUIPMENT	10-2044	50-S0.5	(6)	1,308,617,665	595,930,176	791,204,549	36,648,665	2.80	21.59
(46)	323.00	TURBOGENERATOR UNITS	10-2044	50-S1	(4)	547,183,008	282,084,376	286,985,953	13,719,360	2.51	20.92
(47)	324.00	ACCESSORY ELECTRIC EQUIPMENT	10-2044	75-R2	(1)	276,478,610	129,713,374	149,530,022	6,155,006	2.23	24.29
(48)	325.00	MISCELLANEOUS POWER PLANT EQUIPMENT	10-2044	35-L0.5	0	145,202,535	57,820,814	87,381,722	4,951,664	3.41	17.65
(49)	325.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE		20-SQ	0	7,784,414	3,414,887	4,369,527	385,873	4.96	11.32
(50) (51)	325.22 325.23	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS		15-SQ 5-SQ	0	4,374,774 6,755,517	2,297,236 2,736,883	2,077,538 4,018,634	292,621 1,335,561	6.69 19.77	7.10 3.01
(52)		TOTAL NUCLEAR PRODUCTION PLANT				3,262,902,351	1,603,452,525	1,772,284,051	81,654,929	2.50	21.70
()		HYDRAULIC PRODUCTION PLANT									
		OSAGE HYDRAULIC PRODUCTION PLANT									
(53)	331.00	STRUCTURES AND IMPROVEMENTS	06-2047	125-R1	(2)	8,949,981	2,657,608	6,471,372	237,520	2.65	27.25
(54)	332.00	RESERVOIRS, DAMS AND WATERWAYS	06-2047	150-R2.5	(1)	86,430,152	20,878,217	66,416,237	2,356,069	2.73	28.19
(55)	333.00 334.00	WATER WHEELS, TURBINES, AND GENERATORS ACCESSORY ELECTRIC EQUIPMENT	06-2047	95-S0	(8)	63,276,661	22,207,293 6,938,658	46,131,500 23,928,453	1,711,032 918,221	2.70 3.00	26.96
(56) (57)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT	06-2047 06-2047	65-R1 50-R0.5	(1)	30,561,496 2,910,936	722.631	2,188,305	910,221	3.13	26.06 24.00
(57)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	00-2047	20-SQ	0	2,910,930	30,435	2,100,305	3,979	4.81	13.12
(59)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT		15-SQ	0	97,613	45,493	52,120	6,245	6.40	8.35
(60)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS		5-SQ	0	865,748	153,810	711,938	174,944	20.21	4.07
(61)	336.00	ROADS, RAILROADS AND BRIDGES	06-2047	50-R0.5	Ö	77,445	57,780	19,665	0	-	-
(62)		TOTAL OSAGE HYDRAULIC PRODUCTION PLANT				193,252,683	53,691,925	145,971,807	5,499,187	2.85	26.54
		TAUM SAUK HYDRAULIC PRODUCTION PLANT									
(63)	331.00	STRUCTURES AND IMPROVEMENTS	06-2089	125-R1	(5)	22,210,082	3,777,923	19,542,663	310,692	1.40	62.90
(64)	332.00	RESERVOIRS, DAMS AND WATERWAYS	06-2089	150-R2.5	(3)	10,271,817	3,858,661	6,721,310	103,762	1.01	64.78
(65)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	06-2089	95-S0	(26)	73,722,396	18,948,913	73,941,306	1,294,925	1.76	57.10
(66)	334.00	ACCESSORY ELECTRIC EQUIPMENT	06-2089	65-R1	(3)	13,146,539	2,366,528	11,174,407	227,164	1.73	49.19
(67)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT	06-2089	50-R0.5	0	4,763,369	711,012	4,052,356	98,475	2.07	41.15
(68) (69)	335.21 335.22	MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT		20-SQ	0	139,273	37,675	101,598	6,847 37.431	4.92 6.18	14.84 7.03
(70)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS		15-SQ 5-SQ	0	605,689 330,425	342,694 284,944	262,996 45,481	26,681	8.07	1.70
(70)	336.00	ROADS, RAILROADS AND BRIDGES	06-2089	50-R0.5	0	232,752	51,119	181,633	4,245	1.82	42.79
(72)		TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT				125,422,342	30,379,470	116,023,750	2,110,222	1.68	54.98
		KEOKUK HYDRAULIC PRODUCTION PLANT									
(73)	331.00	STRUCTURES AND IMPROVEMENTS	06-2055	125-R1	(3)	8,808,412	2,626,582	6,446,083	187,193	2.13	34.44
(74)	332.00	RESERVOIRS, DAMS AND WATERWAYS	06-2055	150-R2.5	(1)	18,410,282	8,043,470	10,550,915	296,589	1.61	35.57
(75)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	06-2055	95-S0	(10)	132,187,416	35,892,881	109,513,277	3,229,951	2.44	33.91
(76)	334.00	ACCESSORY ELECTRIC EQUIPMENT	06-2055	65-R1	(1)	19,861,916	4,337,198	15,723,337	494,209	2.49	31.82
(77)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT	06-2055	50-R0.5	0	4,327,860	1,110,070	3,217,790	113,153	2.61	28.44
(78)	335.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE		20-SQ	0	77,136	51,803	25,333	3,413	4.43	7.42
(79)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT		15-SO	0	121,176	63,127	58,049	7,663	6.32	7.58
(80)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	00 0055	5-SQ	0	86,657	60,365	26,292	15,627	18.03	1.68
(81)	336.00	ROADS, RAILROADS AND BRIDGES	06-2055	50-R0.5	0	114,926	60,726	54,200	2,053	1.79	26.40
(82)		TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT				183,995,782	52,246,221	145,615,276	4,349,850	2.36	33.48
(83)		TOTAL HYDRAULIC PRODUCTION PLANT				502,670,806	136,317,616	407,610,833	11,959,260	2.38	34.08

AMEREN MISSOURI Case No. ER-2019-0335 MIEC Phase Two Depreciation Rates

LINE NO.			PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE <u>PERCENT</u> (4)	ORIGINAL COST AS OF DECEMBER 31, 2018 (5)	ALLOCATED BOOK <u>RESERVE</u> (6)	FUTURE ACCRUALS (7)	CALCULA ANNUAL AC AMOUNT (8)		COMPOSITE REMAINING LIFE (10)
		OTHER PRODUCTION PLANT									
(84) (85) (86) (87) (88) (89) (90) (91) (92) (93)	341.00 342.00 344.00 344.10 344.20 345.00 346.00 346.21 346.22 346.23	STRUCTURES AND IMPROVEMENTS FUEL HOLDERS, PRODUCERS AND ACCESSORIES GENERATORS - OTHER CTS MARYLAND HEIGHTS LANDFILL CTG SOLAR ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS		40-R3 45-R3 45-R4 8-S2.5 20-S2.5 40-R2.5 22-L2.5 20-SQ 15-SQ 5-SQ	(5) (5) 40 0 (5) 0 0 0 0	49,364,453 48,669,825 1,000,351,750 8,417,408 10,680,919 130,267,814 7,864,056 278,700 464,779 198,558	17,508,804 15,185,825 400,959,509 2,988,278 2,782,378 48,511,155 3,301,356 213,963 283,057 103,205	34,323,871 35,916,441 649,409,829 2,062,167 7,898,541 88,270,049 4,562,700 64,737 181,722 95,354	1,244,260 1,090,754 22,054,399 372,905 521,228 3,248,188 315,695 12,653 30,844 40,268	2.52 2.24 2.20 4.43 4.88 2.49 4.01 4.54 6.64 20.28	27.59 32.93 29.45 5.53 15.15 27.18 14.45 5.12 5.89 2.37
(94)		TOTAL OTHER PRODUCTION PLANT				1,256,557,262	491,837,530	822,785,411	28,931,195	2.30	28.44
(95)		TOTAL PRODUCTION PLANT				9,572,974,258	4,347,134,489	5,574,923,677	286,817,549	3.00	19.44

AMEREN MISSOURI Case No. ER-2019-0335 Comparison of MIEC Proposed and Ameren Missouri Depreciation Rates and Accruals

LINE			MIEC PROPOSED ANNUAL ACCRUAL		AMEREN PROPOSED ANNUAL ACCRUAL		DELTA ANNUAL ACCRUAL	
NO.		ACCOUNT	AMOUNT	RATE	AMOUNT	RATE	AMOUNT	RATE
		STEAM PRODUCTION PLANT						
		MERAMEC STEAM PRODUCTION PLANT						
(1) (2)	311.00 312.00	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT	1,743,712 20,514,797	3.51 4.56	3,025,081 37,890,857	6.09 8.43	(1,281,369) (17,376,060)	(2.58) (3.87)
(3)	314.00	TURBOGENERATOR UNITS	4,979,057	4.41	7,265,007	6.44	(2,285,950)	(2.03)
(4)	315.00	ACCESSORY ELECTRIC EQUIPMENT	3,121,611 704.621	5.40 7.02	4,957,509	8.57	(1,835,898)	(3.17)
(5) (6)	316.00 316.21	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	23,866	4.98	1,691,746 26,948	16.85 5.63	(987,125) (3,082)	(9.83) (0.65)
(7)	316.22	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT	23,405	6.70	28,828	8.26	(5,423)	(1.56)
(8)	316.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	61,942	23.74	104,959	40.23	(43,017)	(16.49)
(9)		TOTAL MERAMEC STEAM PRODUCTION PLANT	31,173,012		54,990,935		(23,817,923)	
		SIOUX STEAM PRODUCTION PLANT						
(10) (11)	311.00 312.00	STRUCTURES AND IMPROVEMENTS BOILER PLANT EQUIPMENT	1,994,762 41,022,325	3.46 4.28	2,156,663 43,831,427	3.74 4.57	(161,901) (2,809,102)	(0.28) (0.29)
(12)	314.00	TURBOGENERATOR UNITS	6,205,380	3.77	7,114,715	4.32	(909,335)	(0.55)
(13)	315.00	ACCESSORY ELECTRIC EQUIPMENT	5,043,071	3.95 4.79	6,234,898 872,273	4.88	(1,191,827)	(0.93)
(15)	316.00 316.21	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	659,186 58,127	5.04	60,812	6.34 5.27	(213,087) (2,685)	(1.55) (0.23)
(16) (17)	316.22 316.23	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	14,576 74,979	3.61 14.83	5,547 89,718	1.37 17.75	9,029 (14,739)	2.24 (2.92)
(18)		TOTAL SIOUX STEAM PRODUCTION PLANT	55,072,406		60,366,053		(5,293,647)	
		LABADIE STEAM PRODUCTION PLANT						
(19)	311.00	STRUCTURES AND IMPROVEMENTS	4,011,697	3.09	3,944,458	3.04	67,239	0.05
(20) (21)	312.00 312.03	BOILER PLANT EQUIPMENT	34,348,197	3.37 2.01	34,566,137	3.39	(217,940)	(0.02)
(21)	312.03	BOILER PLANT EQUIPMENT - ALUMINUM COAL CARS TURBOGENERATOR UNITS	1,574,338 6,839,769	2.01	308,927 7,049,342	0.39 2.78	1,265,411 (209,573)	1.62 (0.08)
(23)	315.00	ACCESSORY ELECTRIC EQUIPMENT	3,195,556	2.72	3,176,608	2.70	18,948	0.02
(24) (25)	316.00 316.21	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	618,987 34,607	3.41 5.05	729,663 37,480	4.02 5.47	(110,676) (2,873)	(0.61) (0.42)
(26) (27)	316.22 316.23	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	29,928 318,617	6.31 20.50	32,061 399,738	6.76 25.72	(2,133) (81,121)	(0.45) (5.22)
(28)	010.20	TOTAL LABADIE STEAM PRODUCTION PLANT	50,971,695	3.27	50,244,414	20.72	727,281	(0.22)
		RUSH ISLAND STEAM PRODUCTION PLANT						
(29)	311.00	STRUCTURES AND IMPROVEMENTS	2,570,236	2.64	2,458,101	2.52	112,135	0.12
(30) (31)	312.00 314.00	BOILER PLANT EQUIPMENT TURBOGENERATOR UNITS	16,740,684 4,324,815	3.07 2.57	16,372,497 4,544,203	3.00 2.70	368,187 (219,388)	0.07
(31)	315.00	ACCESSORY ELECTRIC EQUIPMENT	1,405,031	2.57	1,354,192	2.42	(219,388) 50,839	(0.13) 0.09
(33) (34)	316.00 316.21	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	503,743 27,212	3.50 4.96	596,783 30.877	4.14 5.63	(93,040)	(0.64)
(34)	316.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE EQUIPMENT	27,212 24,482	4.96 5.19	18,059	3.83	(3,665) 6,423	(0.67) 1.36
(36)	316.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	260,880	19.99	277,564	21.27	(16,684)	(1.28)
(37)		TOTAL RUSH ISLAND STEAM PRODUCTION PLANT	25,857,083		25,652,276		204,807	
(38)	311.00	COMMON- ALL STEAM PLANTS STRUCTURES AND IMPROVEMENTS	49,374	2.50	53,071	2.69	(3,697)	(0.19)
(39) (40)	312.00	BOILER PLANT EQUIPMENT	1,068,038	2.93	982,935	2.70	85,103	0.23
(40)	315.00 316.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	80,007 549	2.56 3.17	85,277 614	2.72 3.54	(5,270) (65)	(0.16) (0.37)
(42)		TOTAL COMMON - ALL STEAM PLANTS	1,197,969		1,121,897		76,072	
(43)		TOTAL STEAM PRODUCTION PLANT	164,272,165		192,375,575		(28,103,410)	
		NUCLEAR PRODUCTION PLANT						
		CALLAWAY NUCLEAR PRODUCTION PLANT						
(44)	321.00	STRUCTURES AND IMPROVEMENTS	18,166,179	1.88	14,857,503	1.54	3,308,676	0.34
(45)	322.00	REACTOR PLANT EQUIPMENT	36,648,665	2.80	38,569,913	2.95	(1,921,248)	(0.15)
(46) (47)	323.00 324.00	TURBOGENERATOR UNITS ACCESSORY ELECTRIC EQUIPMENT	13,719,360 6,155,006	2.51 2.23	14,543,630 5,668,304	2.66 2.05	(824,270) 486,702	(0.15) 0.18
(48)	325.00	MISCELLANEOUS POWER PLANT EQUIPMENT	4,951,664	3.41	6,832,243	4.71	(1,880,579)	(1.30)
(49) (50)	325.21 325.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	385,873 292,621	4.96 6.69	417,291 331,844	5.36 7.59	(31,418) (39,223)	(0.40) (0.90)
(51)	325.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	1,335,561	19.77	1,550,051	22.94	(214,490)	(3.17)
(52)		TOTAL NUCLEAR PRODUCTION PLANT	81,654,929		82,770,779		(1,115,850)	

AMEREN MISSOURI Case No. ER-2019-0335 Comparison of MIEC Proposed and Ameren Missouri Depreciation Rates and Accruals

LINE			MIEC PROPOSED ANNUAL ACCRUAL		AMEREN PROPOSED ANNUAL ACCRUAL		DELTA ANNUAL ACCRUAL	
NO.		ACCOUNT	AMOUNT	RATE	AMOUNT	RATE	AMOUNT	RATE
		HYDRAULIC PRODUCTION PLANT						
		OSAGE HYDRAULIC PRODUCTION PLANT						
(53)	331.00	STRUCTURES AND IMPROVEMENTS	237,520	2.65	289,823	3.24	(52,303)	(0.59)
(54)	332.00	RESERVOIRS, DAMS AND WATERWAYS	2,356,069	2.73	2,419,627	2.80	(63,558)	(0.07)
(55)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	1,711,032	2.70	1,769,377	2.80	(58,345)	(0.10)
(56) (57)	334.00 335.00	ACCESSORY ELECTRIC EQUIPMENT	918,221	3.00	953,791	3.12	(35,570)	(0.12)
(58)	335.00	MISCELLANEOUS POWER PLANT EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	91,176 3,979	3.13 4.81	131,069 4,326	4.50 5.23	(39,893) (347)	(1.37) (0.42)
(59)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	6.245	6.40	7.204	7.38	(959)	(0.98)
(60)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	174,944	20.21	186,205	21.51	(11,261)	(1.30)
(61)	336.00	ROADS, RAILROADS AND BRIDGES	0	-	0	-	0	-
(62)		TOTAL OSAGE HYDRAULIC PRODUCTION PLANT	5,499,187		5,761,422		(262,235)	
		TAUM SAUK HYDRAULIC PRODUCTION PLANT						
(63)	331.00	STRUCTURES AND IMPROVEMENTS	310,692	1.40	301,909	1.36	8,783	0.04
(64)	332.00	RESERVOIRS, DAMS AND WATERWAYS	103,762	1.01	265,739	2.59	(161,977)	(1.58)
(65) (66)	333.00 334.00	WATER WHEELS, TURBINES, AND GENERATORS ACCESSORY ELECTRIC EQUIPMENT	1,294,925	1.76 1.73	1,437,485 239.861	1.95 1.82	(142,560)	(0.19)
(67)	334.00 335.00	MISCELLANEOUS POWER PLANT EQUIPMENT	227,164 98,475	2.07	115,682	2.43	(12,697) (17,207)	(0.09) (0.36)
(68)	335.21	MISCELLANEOUS POWER PLANT EQUIPMENT-OFFICE FURNITURE	6,847	4.92	7,118	5.11	(17,207)	(0.19)
(69)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	37,431	6.18	44,095	7.28	(6,664)	(1.10)
(70)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT- COMPUTERS	26,681	8.07	39,565	11.97	(12,884)	(3.90)
(71)	336.00	ROADS, RAILROADS AND BRIDGES	4,245	1.82	3,234	1.39	1,011	0.43
(72)		TOTAL TAUM SAUK HYDRAULIC PRODUCTION PLANT	2,110,222		2,454,688		(344,466)	
		KEOKUK HYDRAULIC PRODUCTION PLANT						
(73)	331.00	STRUCTURES AND IMPROVEMENTS	187,193	2.13	201,246	2.28	(14,053)	(0.15)
(74)	332.00	RESERVOIRS, DAMS AND WATERWAYS	296,589	1.61	302,534	1.64	(5,945)	(0.03)
(75)	333.00	WATER WHEELS, TURBINES, AND GENERATORS	3,229,951	2.44	3,431,032	2.60	(201,081)	(0.16)
(76) (77)	334.00 335.00	ACCESSORY ELECTRIC EQUIPMENT MISCELLANEOUS POWER PLANT EQUIPMENT	494,209 113,153	2.49 2.61	520,484 131,382	2.62 3.04	(26,275) (18,229)	(0.13) (0.43)
(78)	335.21	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE FURNITURE	3,413	4.43	4,200	5.44	(10,223)	(1.01)
(79)	335.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	7,663	6.32	8,879	7.33	(1,216)	(1.01)
(80)	335.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	15,627	18.03	32,748	37.79	(17,121)	(19.76)
(81)	336.00	ROADS, RAILROADS AND BRIDGES	2,053	1.79	1,301	1.13	752	0.66
(82)		TOTAL KEOKUK HYDRAULIC PRODUCTION PLANT	4,349,850		4,633,806		(283,956)	
(83)		TOTAL HYDRAULIC PRODUCTION PLANT	11,959,260		12,849,916		(890,656)	
		OTHER PRODUCTION PLANT						
(84)	341.00	STRUCTURES AND IMPROVEMENTS	1,244,260	2.52	1,188,780	2.41	55,480	0.11
(85)	342.00	FUEL HOLDERS, PRODUCERS AND ACCESSORIES	1,090,754	2.24	1,000,112	2.05	90,642	0.19
(86) (87)	344.00 344.10	GENERATORS - OTHER CTS MARYLAND HEIGHTS LANDFILL CTG	22,054,399 372,905	2.20 4.43	16,598,907 156,408	1.66 1.86	5,455,492 216,497	0.54 2.57
(88)	344.20	SOLAR	521,228	4.88	447.666	4.19	73.562	0.69
(89)	345.00	ACCESSORY ELECTRIC EQUIPMENT	3,248,188	2.49	2,765,868	2.12	482,320	0.37
(90)	346.00	MISCELLANEOUS POWER PLANT EQUIPMENT	315,695	4.01	259,528	3.30	56,167	0.71
(91)	346.21	MISCELLANEOUS POWER PLANT EQUIPMENT - OFFICE FURNITURE	12,653	4.54	17,257	6.19	(4,604)	(1.65)
(92)	346.22	MISCELLANEOUS POWER PLANT EQUIPMENT- OFFICE EQUIPMENT	30,844	6.64	36,999	7.96	(6,155)	(1.32)
(93)	346.23	MISCELLANEOUS POWER PLANT EQUIPMENT - COMPUTERS	40,268	20.28	64,770	32.62	(24,502)	(12.34)
(94)		TOTAL OTHER PRODUCTION PLANT	28,931,195		22,536,295		6,394,900	
(95)		TOTAL PRODUCTION PLANT	286,817,549		310,532,565		(23,715,016)	