

**Exhibit No.:** \_\_\_\_\_  
**Issue:** Depreciation  
**Type of Exhibit:** Rebuttal  
**Witness:** John J. Spanos  
**Sponsoring Party:** Ameren Missouri  
**Case No.:** ER-2021-0240  
**Date:** October 15, 2021

**MISSOURI PUBLIC SERVICE COMMISSION**

**CASE NO. ER-2021-0240**

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**REBUTTAL TESTIMONY OF**

**JOHN J. SPANOS**

**ON BEHALF OF**

**AMEREN MISSOURI**

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**Camp Hill, Pennsylvania**

**October 15, 2021**

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1 **I. INTRODUCTION AND PURPOSE**

2 **Q. PLEASE STATE YOUR NAME AND ADDRESS.**

3 A. My name is John J. Spanos. My business address is 207 Senate Avenue, Camp Hill,  
4 Pennsylvania.

5 **Q. ARE YOU THE SAME JOHN J. SPANOS WHO PREFILED DIRECT**  
6 **TESTIMONY IN THIS MATTER?**

7 A. Yes.

8 **Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

9 A. The purpose of my testimony is to rebut the Staff Report filed by the Missouri Public  
10 Service Commission Staff (“Staff”) related to depreciation and to rebut the testimony  
11 of Brian C. Andrews on behalf of the Missouri Industrial Energy Consumers  
12 (“MIEC”) also related to depreciation.

13 **Q. WHAT IS THE SUBJECT OF YOUR REBUTTAL TESTIMONY?**

14 A. The subject of my testimony is depreciation. Specifically, I will address Staff’s  
15 proposed service lives, an error in the Staff’s calculation of depreciation for one plant  
16 account, and MIEC’s proposal to not change depreciation rates for the Callaway  
17 Energy Center Nuclear Power Plant (“Callaway Energy Center”). I will also address  
18 the Company's plant accounting records.

19 **II. REBUTTAL TO STAFF’S DEPRECIATION PROPOSALS**

20 **Q. WHAT DOES STAFF RECOMMEND?**

21 A. Staff recommends increasing the service lives of 9 plant accounts and decreasing the  
22 service lives of 2 plant accounts from what was proposed by the Company. Staff is

1 also recommending a depreciation rate for Account 364.00 Poles and Fixtures that has  
 2 been calculated using an incorrect reserve balance.

3 **A. Service Life Estimates**

4 **Q. WHAT ADJUSTMENTS TO THE COMPANY'S PROPOSED SERVICE**  
 5 **LIVES IS STAFF PROPOSING?**

6 A. Staff is proposing to increase the service life estimates for 9 plant accounts and  
 7 decrease the service life estimates for 2 plant accounts from what was proposed by the  
 8 Company. Table 1 below shows the estimates that were proposed by the Company in  
 9 the Depreciation Study as well as the estimates proposed by Staff. Table 1 also sets  
 10 forth the change in average service life between what was proposed by the Company  
 11 as compared to Staff.

ACCOUNT	COMPANY PROPOSED	STAFF PROPOSED	CHANGE IN AVERAGE SERVICE LIFE
312.03, Boiler Plant Equipment – Aluminum Coal Cars	35-R2	30-R2	(5)
325, Miscellaneous Power Plan Equipment	40-L0	35-O1	(5)
333, Water Wheels, Turbines and Generators	95-S0	105-L0	10
352, Structures and Improvements	65-R2.5	70-R2.5	5
353, Station Equipment	60-S0	65-S0	5
355, Poles and Fixtures	58-R3	64-L2.5	6
356, Overhead Conductors and Devices	65-R3	75-R3	10
364, Poles and Fixtures	52-R2.5	58-L2.5	6
365, Overhead Conductors and Devices	52-R1	65-O1	13
373, Street Lighting and Signal Systems	38-S0	40-O1	2
390, Structures and Improvements-Miscellaneous Structures-Old	45-S0	55-R1	10

1 **Q. HAS STAFF PROVIDED ANY EXPLANATION FOR ADJUSTING THE**  
2 **SERVICE LIVES FROM WHAT THE COMPANY PROPOSED?**

3 A. No. Staff simply states that, “Using the data supplied by Ameren, and the methods  
4 below, Staff calculated its own depreciation rates of Ameren’s plant in service and  
5 recommends the rates as listed in Accounting Schedule 5.”<sup>1</sup> There were over 60 plant  
6 accounts for which Staff agreed with the service life estimates made by the Company  
7 in the Depreciation Study and there is no explanation as to why Staff disagreed with  
8 the estimates made by the Company for the 11 accounts shown in Table 1 above.

9 **Q. DO YOU AGREE WITH THE LIFE ESTIMATE DIFFERENCES STAFF HAS**  
10 **PROPOSED AS SET FORTH IN TABLE 1 ABOVE?**

11 A. No. Without any explanation as to why Staff chose different service life estimates  
12 than what was estimated in the Depreciation Study, it is hard to discern Staff’s thought  
13 process on its proposed service lives. Staff’s estimates reflect too much emphasis on  
14 the assets surviving at the later stages of the life cycle for an account, which is much  
15 less representative of the entire account than the earlier stages. In other words, Staff  
16 is fitting their survivor curve estimates to the latter portions of the original data curve  
17 instead of putting emphasis on the earlier portions of the curve. In most cases, the  
18 earlier portions of the curve are more representative of service life expectations than  
19 the latter portions of the original curve because the latter portions of the curve rely on  
20 far fewer retirements than the earlier portions. Also, when considering the service  
21 lives of the survivor curves approved in the prior study (File No. ER-2019-0335) as

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<sup>1</sup> Staff Direct Report, pg. 193, 11:13

1 well as Staff’s proposed service lives in that study, the increased service lives  
2 proposed by Staff in the current case are excessive.

3 **Q. WHAT IS THE MAIN ISSUE WITH THE SURVIVOR CURVE ESTIMATES**  
4 **PROPOSED BY STAFF?**

5 A. Staff’s proposed survivor curves do not fit the original data curve particularly well in  
6 most cases, nor do they align with the earlier, more representative portions of the  
7 original data curves. For many accounts, when making an estimate Staff has chosen  
8 to place emphasis on the assets surviving at the older ages of the life cycle. These data  
9 points reflect ages at which the assets exposed to retirement, as well as the recorded  
10 retirements, are nominal and not representative of the overall account.

11 **Q. DO ANY DEPRECIATION AUTHORITIES SUPPORT THAT THE**  
12 **ESTIMATION OF SERVICE LIVES SHOULD BE BASED ON MORE THAN**  
13 **MATHEMATICAL RESULTS?**

14 A. Yes. For example, NARUC makes clear that factors other than the statistical analysis  
15 must be considered. Chapter XIII of *Public Utility Depreciation Practices*, entitled  
16 “Actuarial Life Analysis” discusses and emphasizes the subjective nature of the  
17 process of estimating service lives. NARUC starts this chapter by explaining that the  
18 analysis of historical data is only one part of the process of estimating service lives:

19 Actuarial analysis objectively measures how the company has retired  
20 its investment. The analyst must then judge whether this historical  
21 view depicts the future life of the property in service. The analyst takes  
22 into consideration various factors, such as changes in technology,  
23 services provided, or capital budgets.<sup>2</sup>

24  
25 NARUC makes clear that the process of estimating service lives must go beyond any

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<sup>2</sup> National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices*, 1996, p. 111.

1 objective measurement of the past. In describing the determination of a survivor curve  
2 estimate (referred to as the “projection life” in this passage), NARUC states:

3 The projection life is a projection, or forecast, of the future of the  
4 property. Historical indications may be useful in estimating a  
5 projection life curve. Certainly the observations based on the  
6 property’s history are a starting point. Trends in life or retirement  
7 dispersion can often be expected to continue. Likewise, unless there is  
8 some reason to expect otherwise, stability in life or retirement  
9 dispersion can be expected to continue, at least in the near term.

10  
11 Depreciation analysts should avoid becoming ensnared in the  
12 mechanics of the historical life study and relying solely on  
13 mathematical solutions. The reason for making an historical life  
14 analysis is to develop a sufficient understanding of history in order to  
15 evaluate whether it is a reasonable predictor of the future. The  
16 importance of being aware of circumstances having direct bearing on  
17 the reason for making an historical life analysis cannot be understated.  
18 These circumstances, when factored into the analysis, determine the  
19 application and limitations of an historical life analysis.<sup>3</sup>

20  
21 Thus, NARUC strongly advises against the approach apparently used by Staff, clearly  
22 stating that “relying solely on mathematical solutions” should be avoided. NARUC  
23 further elaborates on the need for a subjective component to forecasting service lives:

24 A depreciation study is commonly described as having three periods of  
25 analysis: the past, present, and future. The past and present can usually  
26 be analyzed with great accuracy using many currently available  
27 analytical tools. The future still must be predicted and must largely  
28 include some subjective analysis. Informed judgment is a term used to  
29 define the subjective portion of the depreciation study process. It is  
30 based on a combination of general experience, knowledge of the  
31 properties and a physical inspection, information gathered throughout  
32 the industry, and other factors which assist the analyst in making a  
33 knowledgeable estimate.

34  
35 The use of informed judgment can be a major factor in forecasting. A  
36 logical process of examining and prioritizing the usefulness of  
37 information must be employed, since there are many sources of data  
38 that must be considered and weighed by importance. For example, the  
39 following forces of retirement need to be considered: Do the past and

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<sup>3</sup> National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices*, 1996, p. 126. Emphasis added.

1 current service life dispersions represent the future? Will scrap prices  
2 rise or fall? What will be the impact of future technological  
3 obsolescence? Will the company be in existence in the future? The  
4 analyst must rank the factors and decide the relative weight to apply to  
5 each. The final estimate might not resemble any one of the specific  
6 factors; however, the result would be a decision based upon a  
7 combination of the components.<sup>4</sup>

8 **Q. HAVE YOU INCORPORATED THE VARIOUS FACTORS DISCUSSED BY**  
9 **NARUC INTO YOUR ESTIMATES?**

10 A. Yes. I have conducted site visits for this and prior studies as well as engaged in  
11 discussions with Company personnel to familiarize myself with the Company's assets  
12 and plans for the assets. In addition, throughout my career, I have performed hundreds  
13 of depreciation studies for numerous utilities. The information obtained from this  
14 experience has also been incorporated into my recommendations.

15 **Q. CAN YOU PLEASE PROVIDE EXAMPLES OF THIS ISSUE?**

16 A. Yes. In Figure 1 below there is a comparison of the Company proposed survivor curve  
17 in black (95-S0) along with the Staff proposed survivor curve in red (105-S0). From  
18 this comparison it can be seen that the Company proposed survivor curve 95-S0 is a  
19 good fit of the data from ages 0 through 84, while the Staff proposed 105-S0 is a good  
20 fit from ages 0 through 36, then doesn't fit with the data at all until it barely coincides  
21 with the data around age 100. The amount of plant exposed to retirement at age 100  
22 is \$2.5 million, whereas the data at age 84 has over \$6 million of plant exposed to  
23 retirement, and age 36, where Staff's estimate deviates significantly from the data, has  
24 over \$25 million of plant exposed to retirement. There is no reason for Staff's estimate  
25 to deviate from the data at an age where there are still significant dollars exposed to

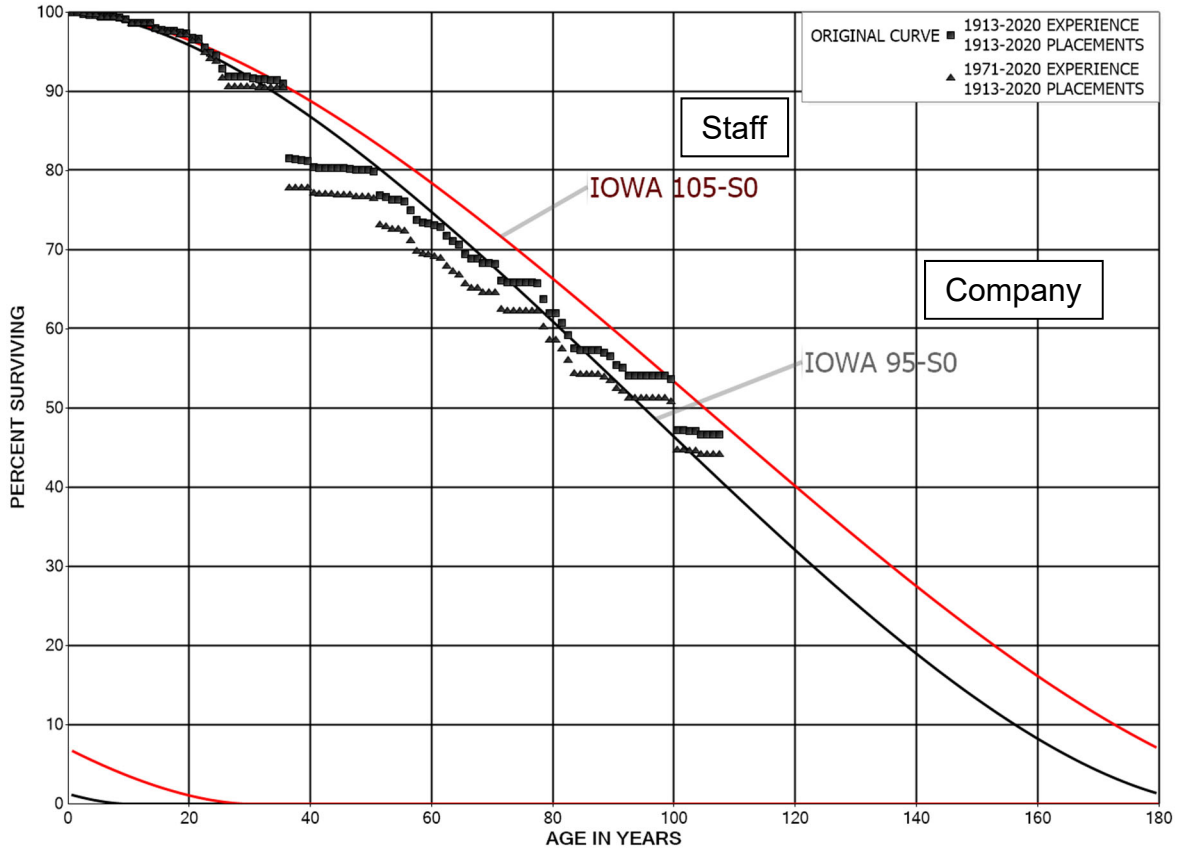
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<sup>4</sup> National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices*, 1996, p. 128. Emphasis added.



1 retirement, especially when Staff's estimate doesn't intersect with the data again until  
2 age 100.

3 **Figure 1: Comparison of Company and Staff Proposed Survivor Curves for Account**  
4 **333.00 Water Wheels, Turbines and Generators**

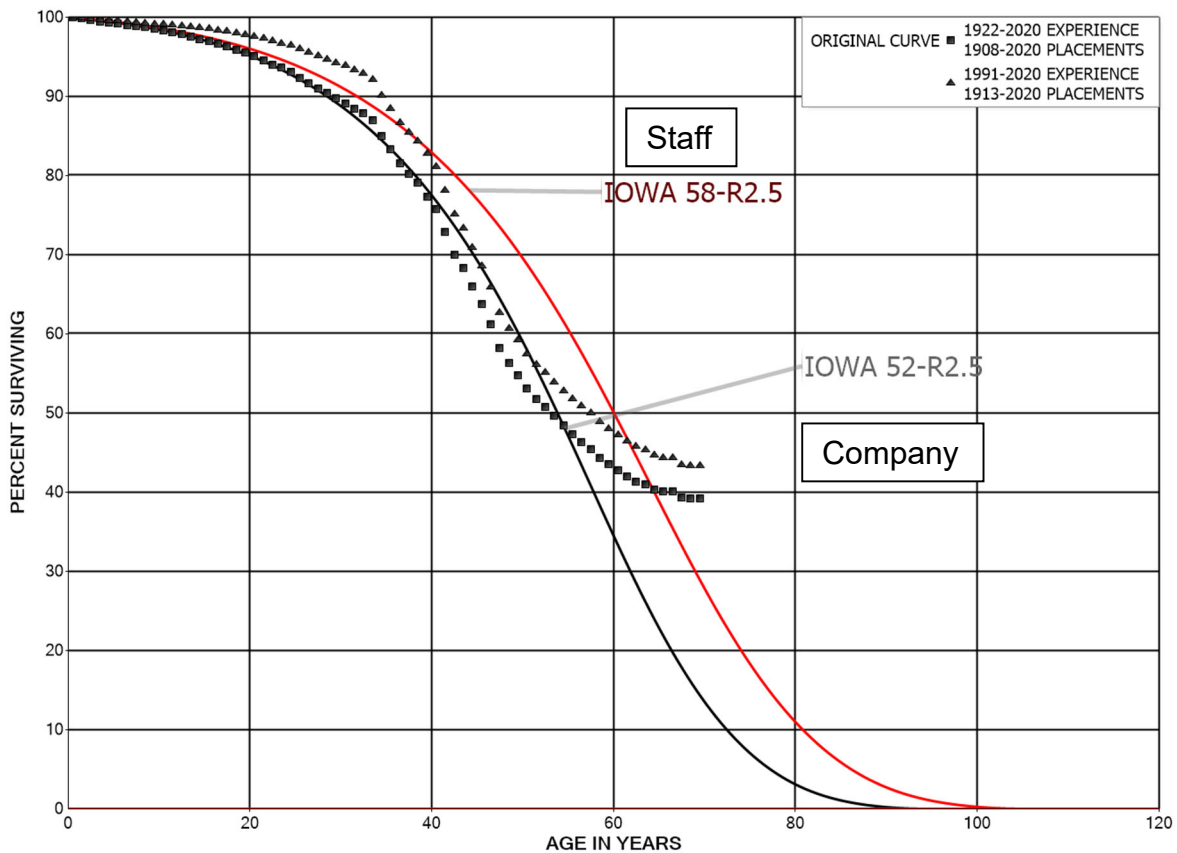


5  
6 **Q. ARE THERE OTHER EXAMPLES OF THIS DISCREPANCY IN HOW**  
7 **STAFF'S ESTIMATES FIT THE HISTORICAL DATA?**

8 A. Yes. There are numerous examples for each account about which Staff disagrees with  
9 the Company recommendation. One other particularly striking example is on Figure  
10 2 below and concerns Account 364.00 Poles and Fixtures. The comparison of the  
11 Company's estimate and Staff's estimate shows that the Company's survivor curve  
12 estimate (52-R2.5) is a very good fit of the data through age 55. At this point of the  
13 original data curve the data begins to tail off and the exposures at this age are

1 approaching 10% of the age 0 exposures--meaning the plant exposed to retirement at  
 2 this age is drastically less than the plant that was exposed to retirement at earlier ages.  
 3 The 58-R2.5 proposed by Staff is a good fit of the data through age 20, but after that  
 4 Staff's survivor curve doesn't come near representing the data until it crosses over the  
 5 data at age 64. At that age there is only just over \$1 million of plant exposed to  
 6 retirement, whereas there was over \$1 billion for some of the earlier ages. This means  
 7 the data at that point is not very reliable and significantly less reliable than the data  
 8 from earlier ages.

9 **Figure 2: Comparison of Company and Staff Proposed Survivor Curves for Account**  
 10 **364.00 Poles and Fixtures**



11  
 12 **Q. DO YOU HAVE ANY OTHER CONCERNS WITH THE SERVICE LIFE**  
 13 **ESTIMATES PROPOSED BY STAFF?**

1 A. Yes. The service life estimates proposed by Staff in the instant case are inconsistent  
2 with what Staff supported as service life estimates in the prior case for Ameren  
3 Missouri (File No. ER-2019-0335). A depreciation study was filed by the Company  
4 with that case and Staff did not disagree with any service life estimates proposed in  
5 the depreciation study.<sup>5</sup> This depreciation study was based on data that had only two  
6 fewer years of data included in the analysis. A well-informed depreciation analyst  
7 should assume that with only two additional years of data, barring a convincing  
8 operational reason, that service life estimates should not be changed drastically.  
9 However, there are five plant accounts for which Staff is proposing an increase of 8  
10 years of more from what Staff supported and what was approved in the previous study  
11 two years ago. For two plant accounts Staff is proposing an increase in average service  
12 life of 15 years over what Staff supported and what was approved in the prior case. It  
13 is not appropriate to increase service life estimates by that amount in such a short  
14 period of time.

15 **Q. WHAT DO YOU RECOMMEND RELATED TO THE SERVICE LIFE**  
16 **ESTIMATES THAT SHOULD BE USED FOR DEPRECIATION RATES?**

17 A. Due to the inconsistencies and improper methodology used for Staff's estimates  
18 discussed above, I recommend that the service life estimates made by the Company  
19 and filed as part of the depreciation study be adopted for use in developing  
20 depreciation rates. As discussed in the Depreciation Study<sup>6</sup> the service life estimates  
21 proposed by the Company considered a number of factors including statistical  
22 analyses of data, current Company policies and outlook as determined during

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<sup>5</sup>File No. ER-2019-0335. Staff Report, pg. 144-146

<sup>6</sup> See Deprecation Study, pg. III-3

1 conversations with management, and the survivor curve estimates from previous  
2 studies of Ameren Missouri and other electric companies.

3 **B. Depreciation Calculation Error for Account 364.00, Poles and Fixtures**

4 **Q. WHAT DEPRECIATION RATE AND EXPENSE ARE STAFF AND THE**  
5 **COMPANY PROPOSING FOR ACCOUNT 364.00, POLES AND FIXTURES?**

6 A. Staff is proposing a depreciation rate of 6.12% as well as depreciation expense of  
7 \$78.5 million for this account.<sup>7</sup> Based on a shorter average service life, the Company  
8 is proposing a depreciation rate of 4.30% and a depreciation expense of \$55.2 million.<sup>8</sup>  
9 Staff is proposing roughly a \$23.3 million increase compared to what the Company  
10 is proposing.

11 **Q. IF STAFF IS PROPOSING A LONGER SERVICE LIFE THAN THE**  
12 **COMPANY, HOW IS STAFF'S DEPRECIATION EXPENSE SO MUCH**  
13 **LARGER THAN WHAT THE COMPANY IS PROPOSING?**

14 A. Staff is using an incorrect depreciation reserve amount in their calculations. In the  
15 Staff's workpapers it can be seen that Staff is calculating a depreciation rate for the  
16 account in question using an incorrect depreciation reserve of \$10,820,634 rather than  
17 the correct depreciation reserve of \$1,082,063,490 which is what the Company has on  
18 its reserve statement. This means that the future accruals in Staff's calculation have  
19 been far overstated and they are proposing a rate and expense that is much larger than  
20 if they had used the correct book depreciation reserve.

21 **Q. WHAT IS YOUR RECOMMENDATION RELATED TO ACCOUNT 364.00?**

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<sup>7</sup> Staff Direct Report. Accounting Schedule 05, pg. 5

<sup>8</sup> See Depreciation Study, pg. VI-7

1 A. Due to Staff's calculation error and the discussion above of the most appropriate  
2 survivor curve for this account, I recommend that the Company proposed survivor  
3 curve of 52-R2.5 be approved for this account. The service life for this survivor curve  
4 is 5 years longer than what was approved in the prior case, whereas Staff's estimate is  
5 11 years longer. Such a drastic increase in only two years would not be appropriate.

6 **III. REBUTTAL TO MIEC'S PROPOSALS**

7 **Q. WHAT DOES MIEC PROPOSE WITH REGARD TO DEPRECIATION?**

8 A. The Company proposed to change depreciation rates for the Callaway Energy Center  
9 Nuclear Generation Plant to reflect a life of the plant lasting until 2044, the expiration  
10 of its current NRC operating license. MIEC witness Andrews proposes to not change  
11 depreciation rates for the Callaway Energy Center Plant and to continue to use the  
12 currently approved depreciation rates for this plant, but does not propose to change  
13 the life span of the plant. In other words, witness Andrews proposes to maintain the  
14 rates that were based on a plant and reserve balance from the last study without  
15 considering changes in plant additions, retirements or inherent changes in life  
16 characteristics.

17 **Q. WHAT IS THE BASIS FOR MR. ANDREWS' PROPOSAL?**

18 A. Mr. Andrews' proposal is based on the Company's most recently filed Integrated  
19 Resource Plan ("IRP"). Mr. Andrews states in his testimony that based on the IRP the  
20 Company stated it intends to operate this plant past 2050.<sup>9</sup> His theory is apparently  
21 that if the plant does operate beyond 2050 future annual depreciation expense may be

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<sup>9</sup> Andrews Direct Testimony, pg. 3, 19:21

1 lower (if there are more years to recover it) and thus depreciation rates could stay  
2 where they are.

3 **Q. WHY DID THE COMPANY'S DEPRECIATION STUDY RESULT IN**  
4 **HIGHER DEPRECIATION RATES?**

5 A. Because the parameters that are necessary to determine proper depreciation rates have  
6 changed, including the impact of new additions to the total asset investment om each  
7 account. In other words, there is more investment to recover now than existed in the  
8 last rate case and all of the existing assets have a different overall life expectancy.

9 **Q. DO YOU AGREE WITH MR. ANDREWS' CONCLUSION THAT**  
10 **DEPRECIATION RATES FOR CALLAWAY ENERGY CENTER SHOULD**  
11 **REMAIN UNCHANGED?**

12 A. No. Mr. Andrews is relying on the IRP too literally instead of as a guide or plan for  
13 the future as it is intended. There is also a flaw in his logic to just keep the depreciation  
14 rates the same as the currently approved rates, rather than updating the depreciation  
15 rates to be consistent with what he is effectively contending should be a longer life  
16 span for the plant.

17 **Q. WHAT DOES MR. ANDREWS RELY ON FROM THE IRP TO SUPPORT HIS**  
18 **PROPOSAL TO NOT CHANGE CALLAWAY ENERGY CENTER**  
19 **DEPRECIATION RATES?**

20 A. In his testimony, Mr. Andrews quotes the IRP and says, "Ameren's 2020 Integrated  
21 Resource Plan ('IRP') is based on the assumption that the operating license for the  
22 Callaway Energy Center nuclear facility is extended beyond 2050...".<sup>10</sup> The word

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<sup>10</sup> Andrews Direct Testimony, pg. 8, 12:13

1 “assumption” is not a definitive term. Assumptions are not specific plans and could  
2 be subject to change between now and the currently approved life span of 2044 for the  
3 Callaway Energy Center plant. Indeed, the assumptions in the IRP change every three  
4 years when a new IRP is prepared and filed. The IRP does not lay out a specific end-  
5 of-life date for the Callaway Energy Center nuclear facility, thus the currently  
6 approved life span of 2044 should continue to be utilized until the relicensing is  
7 confirmed or at least initiated. This life span is based on the current operating license  
8 for Callaway Energy Center which is a legal responsibility for the Company to operate  
9 the plant, not an arbitrary guess at a date in which the plant will be retired. The  
10 operating license date is currently the best estimate of how long the plant will be in  
11 operation.

12 **Q. DOES MR. ANDREWS DISPUTE THE CURRENT OPERATING LICENSE**  
13 **DATE FOR THE CALLAWAY ENERGY CENTER GENERATION**  
14 **FACILITY?**

15 A. No. In his testimony he states, “Ameren’s depreciation study shows that the probable  
16 retirement year for Callaway Energy Center is 2044. This is consistent with the  
17 current NRC operating license for Callaway Energy Center.”<sup>11</sup>

18 **Q. WHAT ELSE IS INCONSISTENT WITH MR. ANDREWS’ PROPOSAL TO**  
19 **NOT UPDATE THE DEPRECIATION RATES RELATED TO CALLAWAY**  
20 **ENERGY CENTER NUCLEAR PLANT?**

21 A. Mr. Andrews argument is to not change depreciation rates because the IRP states that  
22 the Company *assumes* Callaway Energy Center will be in operation past 2050.

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<sup>11</sup> Andrews Direct Testimony, pg. 8, 8:9

1           However, the current depreciation rates he is supporting are based on the life span date  
2           of 2044 for the Callaway Energy Center plant. This creates an inconsistency between  
3           his opinion that Callaway Energy Center will operate longer than the year 2050, but  
4           he is supporting depreciation rates that were calculated using 2044 as the life span date  
5           for Callaway Energy Center. Additionally, the current rates were not developed with  
6           all the parameters and plant in service that are needed to create proper rates.

7   **Q.    WHAT DO YOU RECOMMEND RELATED TO THE CALLAWAY ENERGY**  
8   **CENTER NUCLEAR GENERATING FACILITY?**

9   A.    I recommend that depreciation rates utilizing the life span date of 2044 be approved  
10       and used by the Company. If in fact at a later date a Callaway Energy Center license  
11       extension is approved by the Nuclear Regulatory Commission (one has not even yet  
12       been applied for) then it would be appropriate to change the life span used to set  
13       Callaway Energy Center depreciation rates. However, if an extension were not  
14       approved Mr. Andrews' approach will result in the need to recover more depreciation  
15       expense later over a shorter term (thus impacting customers more in the future). Mr.  
16       Andrews' argument to continue to use current depreciation rates is not convincing and  
17       the more prudent approach would be to continue to use the life span date set forth in  
18       the operating license for Callaway Energy Center as has been the precedent for this  
19       plant and other similar facilities across the country.

20               **IV.    QUALITY OF COMPANY PROPERTY RECORDS**

21   **Q.    IN STAFF'S CLASS COST OF SERVICE REPORT THERE ARE**  
22   **CRITICISMS OF THE LEVEL OF DETAIL IN THE COMPANY'S**



1           **CONTINUING PROPERTY RECORDS. DO YOU AGREE WITH THE**  
2           **CRITICISMS?**

3    A.    No. Ameren Missouri continuing property records have substantial detail of the type  
4           of transaction, transaction amount, and vintage of the asset. The level of detail and  
5           quality of the detail is comparable to and, in many instances, more detailed than the  
6           property records of many other utilities.

7    **Q.    FOR ALL ACTUARIAL PROPERTY DATA AND IN PARTICULAR MASS**  
8           **PROPERTY ACCOUNTS, WHAT ARE THE STANDARD COMPONENTS**  
9           **OF A PROPERTY RECORD?**

10   A.    Based on the FERC Uniform System of Accounts definition, 18 CFR 101(8), for each  
11           entry and in particular mass property, the following level of detail is necessary: (1) A  
12           general description of the property and quantity; (2) The quantity placed in service by  
13           vintage year; (3) The average cost as set forth in Plant Instructions 2 and 3 of this part;  
14           and (4) The plant control account to which the costs are charged.

15   **Q.    DO AMEREN MISSOURI'S CONTINUING PROPERTY RECORDS MEET**  
16           **THOSE STANDARDS?**

17   A.    Yes.

18   **Q.    DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**

19   A.    Yes.

**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 Adjust ) Case No. ER-2021-0240  
Its Revenues for Electric Service. )

**AFFIDAVIT OF JOHN J. SPANOS**

**COMMONWEALTH OF PENNSYLVANIA )**  
**) ss**  
**COUNTY OF CUMBERLAND )**

John J. Spanos, being first duly sworn on his oath, states:

My name is John J. Spanos, and on his oath declare that he is of sound mind and lawful age; that he has prepared the foregoing *Rebuttal Testimony*; and further, under the penalty of perjury, that the same is true and correct to the best of my knowledge and belief.

  
\_\_\_\_\_ )  
John J. Spanos

Sworn to me this 14th day of October, 2021.