

Exhibit No.: _____
Issue: Depreciation
Witness: John J. Spanos
Sponsoring Party: Ameren Missouri
File No.: GR-2025-0369

MISSOURI PUBLIC SERVICE COMMISSION

FILE NO. GR-2025-0369

REBUTTAL TESTIMONY OF

JOHN J. SPANOS

ON BEHALF OF

AMEREN MISSOURI

Mechanicsburg, Pennsylvania

April 4, 2025

JOHN J. SPANOS REBUTTAL

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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 300 Sterling Parkway,
4 Mechanicsburg, Pennsylvania (formerly 207 Senate Avenue, Camp Hill,
5 Pennsylvania).

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

8 A. Yes.

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

10 A. The purpose of my testimony is to rebut the testimony filed by Missouri Public Service
11 Commission Staff (“Staff”) witness Malachi Bowman and Office of the Public
12 Counsel (“OPC”) witness John A. Robinett related to depreciation.

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

14 A. The primary subject of my testimony is depreciation. More specifically, my testimony
15 will address depreciation concepts and methods as they relate to Staff witness
16 Bowman’s positions on how to achieve the most appropriate depreciation rates for
17 each account. Specifically, I will address Staff’s position to use the whole life
18 technique instead of the currently utilized and most commonly used remaining life
19 technique. This discussion will include Staff’s adjustment of the depreciation rate to
20 incorporate a reserve imbalance. I will rebut the alternative life estimates that Staff
21 proposes for five accounts. Additionally, I will address Staff’s unsupportable
22 adjustment to the reserve for three accounts. As for the subjects related to OPC
23 witness Robinett, I will address his testimony related to general plant amortization.

1 **II. WHOLE LIFE VERSUS REMAINING LIFE TECHNIQUE**

2 **Q. WHAT DOES STAFF RECOMMEND RELATED TO THE DEPRECIATION**
3 **TECHNIQUE USED FOR CALCULATING DEPRECIATION RATES?**

4 A. Staff witness Bowman is recommending changing from the past practice of using the
5 remaining life technique to the whole life technique for all plant accounts. While
6 witness Bowman recommends this change in technique for all accounts, this
7 recommendation relies on an improper reserve imbalance using the remaining life
8 technique. The technique that Staff is recommending is not only unnecessary but
9 inappropriate when the remaining life technique is designed to properly address the
10 issues and does so systematically and rationally.

11 **Q. WHAT DO YOU RECOMMEND RELATED TO THE DEPRECIATION**
12 **TECHNIQUE USED FOR CALCULATING DEPRECIATION RATES?**

13 A. The determination of proper depreciation rates requires the selection of a depreciation
14 technique. The most common technique used for public utility depreciation is the
15 remaining life technique. My recommendation is to continue to use the remaining life
16 technique for all plant accounts. The remaining life technique has been used to
17 calculate the approved rates since the last several Ameren Missouri rate case.¹ While
18 Staff is recommending use of the whole life technique, Staff is actually intermingling
19 the whole life and remaining life techniques in the developed rates which creates an
20 intergenerational inequity and will only create continual adjustment to rates due to a
21 theoretical reserve that continually changes during each rate case. This creates swings
22 in depreciation expense that are not justified for current or future customers.

¹ Last proceeding: Case GR-2021-0241. While the case was settled, depreciation rates were agreed upon using remaining life.

1 **Q. WHY IS USE OF THE WHOLE LIFE TECHNIQUE INFERIOR TO USE OF**
2 **THE REMAINING LIFE DEPRECIATION TECHNIQUE?**

3 A. The whole life technique is used in a few jurisdictions, but is not nearly as prevalent
4 as the remaining life technique and for good reason. For the whole life technique,
5 depreciation is calculated based on the basis of the full service life, or "whole life,"
6 estimated for a group of assets. If the service life-estimate for an asset that costs \$100
7 is 10 years, and no net salvage is expected, then the annual depreciation rate would be
8 10% (or (100%)/10). However, issues can arise with the whole life technique if
9 service life or net salvage estimates change or if the real-world experience of the group
10 does not perfectly match the service life and net salvage estimates, which in reality
11 happens quite often at every utility. Using the same example of an asset that costs
12 \$100 but has an original life-estimate of just over 8 years, after five years of the asset's
13 life the accumulated depreciation would be \$60.² Then assume that after five years the
14 life-estimate is extended to 10 years. A 10% (and \$10) whole life depreciation rate
15 would now be applied for each of the remaining five years of the asset's life, which
16 would result in a total recovery through depreciation of \$110 (the \$60 in accumulated
17 depreciation plus \$10 per year for the remaining five years). As a result, the whole
18 life technique would, without an adjustment, result in the recovery of the incorrect
19 amount (in this example, too much) of depreciation expense. Such situations can, and
20 do, arise regularly because determining depreciation expense is, by its nature, a
21 forecast of the future for thousands of individual assets.

² Applying approximately \$12 of depreciation per year over the first 5 years.

1 The remaining life technique properly addresses the issue described in the
2 previous paragraph by taking a prospective approach and allocating costs over the
3 expected time the related assets will remain in service. Rather than calculating
4 depreciation based on the whole service life, the remaining life technique allocates the
5 amount remaining to be recovered (which is the original cost for the group less net
6 salvage less accumulated depreciation) as and when each depreciation study is
7 performed over its estimated remaining life. As a result, the remaining life technique
8 ensures that the full service value (original cost less net salvage) will be reflected in
9 rates through depreciation expense – and no more or no less. In part for this reason,
10 the remaining life technique is used in the vast majority of U.S. regulatory jurisdictions
11 and has routinely been used in Missouri.

12 **Q. WHAT REASONS DOES STAFF OFFER IN SUPPORT OF THE WHOLE**
13 **LIFE TECHNIQUE?**

14 A. First, Staff states that both whole life and remaining life will accomplish the goal of
15 recovering full investment. Second, Staff states the whole life will produce more
16 consistent rates and remaining life rates will fluctuate more. Third, Staff feels the
17 whole life technique will allow for reserve imbalance reviews. All of these premises
18 are incorrect.

19 The whole life techniques does not achieve full recovery of the full service
20 value unless every asset in the account lives as long as the determined life and the life
21 does not change for the account from the beginning of time until the entire asset class
22 is gone. This is completely unrealistic as I explained above.

1 The remaining life technique is designed to ensure full service value recovery
2 and to smooth the recover over the entire life of the asset class. For example, if an
3 account has a life of 50 years the rate using the whole life technique would be 2.00
4 percent. However, if the life changes to 55 years than the rate would change to 1.82
5 percent. In contrast, using the remaining life technique would result in the same 2.00
6 percent originally, but when the life goes to 55 years the rate would be between 2.00
7 and 1.82 percent which would be less of a fluctuation than the whole life technique.

8 Relating to reserve imbalances, when using the remaining life method there is no
9 reserve imbalance because the rate is smoothed over the remaining life based on the
10 imbalance. This results in a much smoother process than the whole life technique.
11 Additionally, the reserve imbalance with the whole life method, if applied, will create
12 an intergenerational inequity and therefore, swings in charges to customers without a
13 change in service. Finally, the depreciation study based on remaining life shows the
14 comparison of the theoretical reserve to actual reserve for every account. Therefore,
15 all of Staff's reasons for the benefit of the whole life method are not accurate. The
16 remaining life technique is the superior method and most equitable to all parties.

17 **Q. CAN YOU ELABORATE ON THE ISSUES WITH STAFF'S ARGUMENTS**
18 **SUPPORTING THE WHOLE LIFE TECHNIQUE?**

19 A. There are several issues with Staff's arguments to support the whole life technique
20 over the remaining life technique. The first issue is that regardless of the technique,
21 if service lives change between studies, then the Company will collect depreciation at
22 a rate that is different than the depreciation they would collect if they used the updated
23 service life estimate. All else equal, decreasing service lives will lead to increased

1 depreciation for both the remaining life technique and the whole life technique.
2 However, the whole life method will not result in full recovery. Recovery could be
3 more or it could be less, which is contrary to the key goal of depreciation: to recover
4 the *actual* investment over the service life, as indicated by *NARUC's Public Utilities*
5 *Depreciation Practices* manual, which is considered the most authoritative source
6 used in the industry.³ The Commission also recognizes that this is the purpose of
7 depreciation. *See, e.g., Report and Order*, File No. ER-2008-0318 (a Company rate
8 case), 271 P.U.R.^{4th} 475, 2009 WL 248218 (Mo. P.S.C.) (Jan. 27, 2009), p. 39
9 ("Depreciation is the means by which a utility is able to recover the full service value
10 of its investment [not more, not less than it invested]....").

11 Another issue with Staff's argument is the idea that using the remaining life
12 technique will lead to more fluctuations in depreciation expense and more pronounced
13 under- or over-recovery of depreciation than what would result from using the whole
14 life technique. Staff is wrong. On the contrary, the remaining life technique leads to
15 less variability in annual depreciation because any under- or over-recovery that has
16 happened in the past is included in the updated remaining life rates that will be filed
17 from rate case to rate case after the completion of periodic depreciation studies and
18 smoothed over the remaining life of the asset. Witness Bowman's application of the
19 whole life method did not include the necessary amortization of the reserve imbalance
20 or any reserve transfers that are necessary when switching depreciation techniques in
21 order to ensure full recovery. For example, switching from remaining life to whole

3 The Commission has relied on this manual as an authoritative source for establishing the use of proper depreciation principles and techniques, including in its decision in *In the Matter of Laclede Gas Company's Tariff to Revise Natural Gas Rate Schedules*, Third Report and Order, File No. GR-99-315 (Jan. 11, 2005).

1 life without the proper reserve reclassification will create over or under recovery
2 situations as described in the whole life example on page 5 of this testimony. Failure
3 to do so will create a reserve imbalance, and if there is a reserve imbalance,
4 depreciation rates would fluctuate more, not less, drastically. In contrast, the
5 remaining life method smooths the recovery between the theoretical and actual reserve
6 over the remaining life of the entire asset class.

7 **Q. IN REVIEW OF STAFF'S CALCULATIONS, DOES STAFF REALLY USE**
8 **JUST THE WHOLE LIFE TECHNIQUE?**

9 A. No. Staff actually uses a hybrid approach that not only misrepresents the whole life
10 techniques but incorporates an unnecessary reserve imbalance calculation to Staff's
11 proposed depreciation rates. First, Staff conducts a whole life calculation to establish
12 a reserve imbalance. Second, Staff takes the reserve imbalance that is known not to
13 be an accurate measure of the actual book reserve and adds to the future recovery.
14 Third, Staff adds the reserve imbalance to future recovery to create a future recovery
15 amount over the whole life of the asset class, however, this creates a recovery pattern
16 that is not consistent with the life of the assets that are in service. This will create
17 future swings in the recovery pattern even if the life parameters do not change.
18 Basically, an inappropriate calculation of the whole life technique and an inconsistent
19 process for the remaining life technique. This is an inaccurate calculation to avoid
20 saying Staff is using the remaining life technique which is known to be the most
21 systematic and rational calculation for all customers.

22 **Q. ARE THE CURRENT RATES BASED ON THE REMAINING LIFE**
23 **METHOD?**

1 A. Yes.

2 **III. STAFF'S ALTERNATIVE LIFE ESTIMATES**

3 **Q. DOES STAFF RECOMMEND ALTERNATIVE LIFE ESTIMATES FOR ANY**
4 **ACCOUNTS?**

5 A. Yes. Staff recommends maintaining the current service lives for a select few accounts
6 without justification as to why these accounts should not utilize all the information
7 obtained during the depreciation study as was done for all other accounts. The
8 decision for Staff to maintain the current estimates based on witness Bowman's
9 opinion that there was no justification for changing the lives. Additionally, Staff
10 proposes a life estimate for the new Account 381.02, Meters – AMI based on another
11 company instead of a determination on the Ameren meters who will own and operate
12 the assets.

13 **Q. WHAT ACCOUNTS HAS STAFF PROPOSED NO CHANGE FROM THE**
14 **CURRENT LIFE ESTIMATE?**

15 A. The four accounts that Staff recommends different life estimates from the Company
16 are Account 367.00, Mains; Account 369.00, Measuring and Regulating Station
17 Equipment; Account 378.00, Measuring and Regulating Station Equipment – General;
18 and Account 379.00, Measuring and Regulating Station Equipment – City Gate. In
19 each case, Staff proposes to maintain the current life estimate.

20 **Q. IS THERE ANY INFORMATION WITHIN THE DEPRECIATION STUDY**
21 **OR OBTAINED FROM AMEREN MISSOURI SINCE THE LAST STUDY**
22 **THAT SHOULD BE IGNORED?**

1 A. No. All the asset classes should incorporate all the new historical data and informed
2 judgment obtained while conducting the updated depreciation study. This is
3 consistent with the practices of all authoritative texts in the field of depreciation. Even
4 if the new historical data are consistent with past studies, the current life estimates
5 would need to consider informed judgment and current practices and plans. Staff does
6 not consider all factors when maintaining the same life estimates. In the four accounts
7 that Staff disagrees with the Company depreciation study, informed judgment is
8 necessary to understand how life characteristics have changed since the last study.

9 **Q. WHAT ARE SOME OF THE KEY FACTORS THAT AFFECT**
10 **DEPRECIATION RATES?**

11 A. Depreciation rates are affected by depreciation methods and procedures, life
12 estimation, net salvage percentages, plant to reserve relationship and age of surviving
13 plant at the date of calculation, which in the proposed depreciation study is December
14 31, 2023. All of these factors will affect the depreciation rate in order to achieve full-
15 service value recovery over the life of the asset class in a systematic and rational
16 manner, which is the primary goal of depreciation. Therefore, Staff is maintaining the
17 current life estimate coupled with the whole life technique affects the depreciation
18 rate.

19 **Q. DO ANY DEPRECIATION AUTHORITIES SUPPORT THAT THE**
20 **ESTIMATION OF SERVICE LIVES SHOULD BE BASED ON MORE THAN**
21 **MATHEMATICAL RESULTS AND THAT THE CURVE SHOULD MATCH**
22 **THE UTILIZATION OF THE ASSETS OVER THE ASSET'S LIFE?**

23 A. Yes. For example, NARUC makes clear that factors other than the statistical analysis

1 must be considered. Chapter XIII of *Public Utility Depreciation Practices*, entitled
2 “Actuarial Life Analysis” discusses and emphasizes the subjective nature of the
3 process of estimating service lives. NARUC starts this chapter by explaining that the
4 analysis of historical data is only one part of the process of estimating service lives:

5 Actuarial analysis objectively measures how the company has retired
6 its investment. The analyst must then judge whether this historical
7 view depicts the future life of the property in service. The analyst takes
8 into consideration various factors, such as changes in technology,
9 services provided, or capital budgets.⁴

10
11 NARUC makes clear that the process of estimating service lives must go beyond any
12 objective measurement of the past. In describing the determination of a survivor curve
13 estimate (referred to as the “projection life” in this passage), NARUC states:

14 The projection life is a projection, or forecast, of the future of the
15 property. Historical indications may be useful in estimating a
16 projection life curve. Certainly, the observations based on the
17 property’s history are a starting point. Trends in life or retirement
18 dispersion can often be expected to continue. Likewise, unless there is
19 some reason to expect otherwise, stability in life or retirement
20 dispersion can be expected to continue, at least in the near term.

21
22 Depreciation analysts should avoid becoming ensnared in the
23 mechanics of the historical life study and relying solely on
24 mathematical solutions. The reason for making an historical life
25 analysis is to develop a sufficient understanding of history in order to
26 evaluate whether it is a reasonable predictor of the future. The
27 importance of being aware of circumstances having direct bearing on
28 the reason for making an historical life analysis cannot be understated.
29 These circumstances, when factored into the analysis, determine the
30 application and limitations of an historical life analysis.⁵

31
32 Thus, NARUC strongly advises against the approach apparently used by Staff (or at
33 least is the result of Staff’s position). NARUC clearly states that “relying solely on

4 National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices*, 1996, p. 111.

5 National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices*, 1996, p. 126. Emphasis added.

mathematical solutions” should be avoided. NARUC further elaborates on the need for a subjective component to forecasting service lives:

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

The use of informed judgment can be a major factor in forecasting. A logical process of examining and prioritizing the usefulness of information must be employed, since there are many sources of data that must be considered and weighed by importance. For example, the following forces of retirement need to be considered: Do the past and current service life dispersions represent the future? Will scrap prices rise or fall? What will be the impact of future technological obsolescence? Will the company be in existence in the future? The analyst must rank the factors and decide the relative weight to apply to each. The final estimate might not resemble any one of the specific factors; however, the result would be a decision based upon a combination of the components.⁶

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

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

Q. PLEASE EXPLAIN WHY THE LIFE FOR ACCOUNT 381.02, METERS –

⁶ National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices*, 1996, p. 128. Emphasis added.

1 **AMI IN THE DEPRECIATION STUDY IS BETTER THAN THE ESTIMATE**
2 **PROPOSED BY STAFF.**

3 A. Staff bases its estimate on assets from a different company without determining if the
4 meters are the same for Ameren as the other Company. These are new assets so I
5 agree there is no statistical analysis for Ameren to consider, however, there are key
6 factors that should be considered. First, what are the estimates utilized by companies
7 within the industry? Second, what are the key factors for causes of retirement? Third,
8 how will the company monitor the assets for replacement? Most companies for AMI
9 or smart meters have a life that averages 15 years. These companies have had a longer
10 history of use than Ameren. Some of the other key factors to consider are that the
11 manufacturer has a battery life of 20 years which would be the maximum life and once
12 the battery goes then the entire meter will be replaced. These meters are technology
13 based so it is likely that many will need to be replaced before the battery is needed to
14 be replaced. All of these factors support an average life of 15 years as proposed in the
15 Depreciation Study as compared to Staff's proposal of 20 years only because one other
16 company uses 20 years.

17 **IV. STAFF RESERVE BALANCE ADJUSTMENTS**

18 **Q. ARE STAFF'S RESERVE ADJUSTMENTS APPLICABLE TO THE**
19 **DEPRECIATION STUDY?**

20 A. No. Necessary and appropriate adjustments to reserve balances are a component of a
21 Depreciation Study and such adjustments are inputs to the determination of reasonable
22 depreciation rates. Witness Bowman proposes reserve adjustments across functional
23 accounts which is not appropriate and more importantly he recommends these changes

1 while utilizing the whole life technique which does not calculate depreciation expense
2 as a component of the depreciation rate. Not only has witness Bowman's moved
3 reserve from depreciable accounts to non-depreciable accounts which does not make
4 sense but there is no basis for making the adjustment. The negative reserve amounts
5 that Staff identified should not be randomly offset to unrelated accounts. If a reserve
6 amount is to be adjusted, it should go to the related account and part of the future
7 recovery. This is not considered in witness Bowman's testimony and not applied
8 properly since witness Bowman uses the whole life technique.

9 **Q. ARE RESERVE ADJUSTMENTS WHEN USING THE WHOLE LIFE**
10 **METHOD OF ANY VALUE?**

11 A. No. First, reserve adjustments do not have any meaning when properly using the whole
12 life techniques because depreciation rates are not developed with a relationship of the
13 reserve to plant. That in itself is a reason not to use whole life, since there is no
14 measurement of full recovery of service value. Second, a reserve adjustment should
15 not be random. Reserve adjustments should be the result of past transactions or at a
16 minimum must remain in the same function. In other words, adjusting production
17 plant reserve to distribution plant can only be done if there was plant reclassified or
18 assets changed function. Additionally, moving reserve to a non-depreciable account
19 like Account 374 does not have any basis.

20 **V. GENERAL PLANT AMORTIZATION**

21 **Q. HAS OPC CHALLENGED THE CURRENT USE OF GENERAL PLANT**
22 **AMORTIZATION?**

1 A. No. The Company has been applying general plant amortization consistently since
2 approximately 2010. While Mr. Robinett expressed these same concerns in File No.
3 GR-2019-0077, he had no such concerns in File No. GR-2021-0241. In both cases,
4 settlement agreements were reached that allowed for the Company's continued use of
5 this appropriate method.

6 **Q. ARE THE PROPOSED RATES IN THE DEPRECIATION STUDY**
7 **CONSISTENT WITH THE AMORTIZATION PERIODS FOR EACH**
8 **ACCOUNT OR SUBACCOUNT?**

9 A. Yes.

10 **Q. ARE THE AMORTIZATION RATES IN THE DEPRECIATION STUDY**
11 **DEVELOPED USING THE REMAINING LIFE METHOD?**

12 A. Yes. Once full implementation of general plant amortization occurs, which includes
13 aligning the book reserve to the plant balances and making the necessary retirements
14 at the time the amortization period ends, then the depreciation rates will remain stable
15 for existing and future assets in the account.

16 **Q. WHAT ISSUES RELATING TO GENERAL PLANT AMORTIZATION DOES**
17 **MR. ROBINETT CHALLENGE IN HIS TESTIMONY?**

18 A. Mr. Robinett appears to challenge the continued use of general plant amortization
19 based primarily on his desire to challenge the determination of amortization periods
20 going forward. The amortization period for assets for which a general plant
21 amortization approach is used is not determined by statistical analysis but instead is
22 determined by informed judgment as to the appropriate useful life of the assets in each
23 account, which in turn is based on the nature of the assets and how those assets will

1 be utilized. This process is the feedback Mr. Robinett desires that is outside of the
2 "information loop" he appears to be stuck in. Mr. Robinett has all the information
3 available to him that is necessary to complete this task, just as I have done. The concept
4 of general plant amortization was initiated in the early 1990s. Also in the 1990s,
5 FERC released Accounting Release 15 to further provide guidance as to how
6 reasonable amortization periods should be applied. Using general plant amortization,
7 which eliminates incurring the high costs associated with maintaining physical
8 inventories and the unnecessary tracking of low value, high volume assets, makes
9 recovery more stable and allows accounting and operations staff to focus time on more
10 critical assets. Mr. Robinett completely ignores the benefits of general plant
11 amortization in making his recommendation to discontinue the Company's
12 longstanding practice. If assets in the account have a changed useful life or there is a
13 substantially different asset mix, then an amortization period can be changed. But
14 there is no evidence that either of those facts exist and, in fact, my examination of the
15 data in preparation of the Depreciation Study indicates that those conditions do not
16 exist.

17 **Q. HOW DOES THIS GENERAL PLANT AMORTIZATION RELATE TO THE**
18 **COMPANY'S ELECTRIC OPERATIONS?**

19 A. The Company uses many of the same laptops and desk chairs⁷ in support of its gas
20 operations as it does in support of its electric operations. By necessity, an allocation is
21 performed for regulatory and ratemaking purposes. Discontinuing general plant

7 Two of the types of assets that make up the less than 2% of the Company's rate base applicable to general plant amortization.

1 amortization in this case could have an obvious detrimental impact on the Company's
2 electric customers via a requirement for more costly methods relating to many more
3 electric-operations-supporting assets or create considerable confusion as to how to
4 treat assets supporting both electric and gas operations.

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

6 **A. Yes.**

