

STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

AQUARION WATER COMPANY OF NEW HAMPSHIRE, INC.

DOCKET NO. DW 20-184

DIRECT TESTIMONY OF

NED W. ALLIS

VICE PRESIDENT

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC

ON BEHALF OF

AQUARION WATER COMPANY OF NEW HAMPSHIRE

December 18, 2020

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1 **I. INTRODUCTION**

2 **Q1. Please state your name and address.**

3 A1. My name is Ned W. Allis. My business address is 207 Senate Avenue, Camp
4 Hill, Pennsylvania 17011.

5

6 **Q2. Are you associated with any firm?**

7 A2. Yes. I am associated with the firm of Gannett Fleming Valuation and Rate
8 Consultants, LLC (“Gannett Fleming”).

9

10 **Q3. How long have you been associated with Gannett Fleming?**

11 A3. I have been associated with the firm since 2006.

12

13 **Q4. What is your position with the firm?**

14 A4. I am Vice President.

15

16 **Q5. On whose behalf are you testifying in this case?**

17 A5. I am testifying on behalf of Aquarion Water Company of New Hampshire
18 (“Aquarion” or the “Company”).

19

20 **Q6. Please state your qualifications.**

21 A6. I have 14 years of experience within the field of depreciation, which includes
22 providing expert testimony in more than 30 cases before 13 regulatory
23 commissions. I have also worked on numerous depreciation studies for which I
24 did not submit testimony, including assisting other expert witnesses from Gannett
25 Fleming in additional U.S. jurisdictions and two Canadian provinces. Schedule
26 (NWA-1) to my testimony provides my qualifications, including leadership in the
27 Society of Depreciation Professionals (the “Society”) and participation as a
28 faculty member for depreciation training conducted by the Society.

29

1 **II. PURPOSE OF TESTIMONY**

2 **Q7. What is the purpose of your testimony in this proceeding?**

3 A7. The purpose of my testimony is to present the depreciation study performed for
4 Aquarion attached hereto as Schedule (NWA-2). The Depreciation Study sets
5 forth the calculated annual depreciation accrual rates by account as of December
6 31, 2019 for all water plant.

7
8 **Q8. Please summarize the impact in depreciation rates based on the Depreciation
9 Study.**

10 A8. The table below sets forth a comparison of the current depreciation rates and
11 resultant expense of the proposed depreciation rates by function as of December
12 31, 2019.

<u>Function</u>	<u>Current</u>		<u>Proposed</u>	
	<u>Rates</u>	<u>Pro Forma Expense</u>	<u>Rates</u>	<u>Expense</u>
Source of Supply	3.63	\$204,941	3.67	\$207,003
Pumping	3.04	70,832	4.28	99,703
Water Treatment	3.35	9,701	5.97	17,291
Trans. and Dist.	1.52	575,807	1.81	682,880
General	5.24	120,077	3.35	76,718
General Reserve Adj.		-		(24,975)
Total	2.03	981,358	2.19	1,058,620

13 **Q9. Please explain the major factors that caused the change in depreciation rates.**

14 A9. The major factors that cause changes in depreciation rates are the estimated
15 service lives, estimated net salvage, and the recovery of the theoretical reserve
16 imbalances that result from the study. While the average service life estimates for
17 many accounts are the same as or longer than the current average service lives, for
18 some accounts the data available for the study indicates shorter service lives. As
19 a result, the recommended service lives for some accounts are shorter than the
20 current estimates, although the recommended service lives reflect more gradual
21 change to the service lives than indicated by the data. The impact of shorter
22 service lives is offset to some degree by less negative net salvage estimates for

1 many accounts, a trend which is also supported by the historical data.

2

3 In the Company's previous depreciation study, the whole life technique was used
4 and the calculated difference between the book reserve and calculated (or
5 "theoretical") reserve was amortized over a ten-year period. For the current
6 study, the remaining life technique was used, which effectively recovers any such
7 differences over the remaining lives of the Company's assets. The method of
8 recovering any differences between the book and theoretical reserve will also
9 impact the resultant depreciation expense, and the use of the remaining life
10 technique in the depreciation study also impacts the recommended depreciation
11 rates.

12

13 **Q10. Are the recommended depreciation accrual rates presented in your study**
14 **reasonable and applicable to the plant in service as of December 31, 2019?**

15 A10. Yes, they are. Based on the Depreciation Study, I am recommending depreciation
16 rates using the December 31, 2019 plant and reserve balances for approval.

17 **III. DEPRECIATION STUDY**

18 **Q11. Please define the concept of depreciation.**

19 A11. Depreciation refers to the loss in service value not restored by current
20 maintenance, incurred in connection with the consumption or prospective
21 retirement of utility plant in the course of service from causes which are known to
22 be in current operation and against which the company is not protected by
23 insurance. Among the causes to be given consideration are wear and tear, decay,
24 action of the elements, obsolescence, changes in the art, changes in demand and
25 the requirements of public authorities.

26

27 **Q12. Please identify the Depreciation Study you performed for Aquarion.**

28 A12. The study is a report entitled, "2019 Depreciation Study - Calculated Annual
29 Depreciation Accruals Related to Water Plant as of December 31, 2019." This
30 report sets forth the results of my depreciation analysis for Aquarion. The study

1 was prepared and the analyses that underlie the study were conducted under my
2 direction and supervision.

3

4 **Q13. Is Schedule (NWA-2) a true and accurate copy of your Depreciation Study?**

5 A13. Yes.

6

7 **Q14. Does Schedule (NWA-2) accurately portray the results of your Depreciation
8 Study as of December 31, 2019?**

9 A14. Yes.

10

11 **Q16. What was the purpose of the Depreciation Study?**

12 A16. The purpose of the Depreciation Study was to estimate the annual depreciation
13 accruals related to water plant in service for financial and ratemaking purposes
14 and determine appropriate average service lives and net salvage percentages for
15 each plant account.

16

17 **Q17. Are the methods and procedures of the Depreciation Study consistent with
18 industry practices?**

19 A17. Yes, the methods and procedures of the study are generally in accordance with
20 industry standards. Both the existing rates and the proposed rates determined in
21 the Depreciation Study are based on the average service life procedure. However,
22 the proposed rates are determined based on the more common remaining life
23 method while existing rates are based on the whole life method.

24

25 **Q18. What are the most common depreciation methods?**

26 A18. The calculation of depreciation requires the selection of a depreciation method,
27 which includes the selection of a procedure and technique (or basis) for
28 calculating depreciation rates. The recommended depreciation rates in the
29 Depreciation Study are based on the straight-line method, average service life –
30 broad group procedure and remaining life technique, which is the most commonly

1 used depreciation method for public utility depreciation. The straight-line method
2 and average service life – broad group procedure was used in the previous
3 depreciation study for Aquarion. However, the use of the remaining life
4 technique is a change from the previous depreciation study for the Company, in
5 which the whole life technique was used.

6
7 For the whole life technique, depreciation is calculated based on the basis of the
8 full service life, or whole life, estimated for a group of assets. For example, if the
9 service life estimate for an asset that costs \$100 is 10 years, and no net salvage is
10 expected, then the annual depreciation rate would be 10% (or $(1-0\%)/10$). Issues
11 can arise with the whole life technique if service life estimates change or if the
12 real-world experience of the group does not perfectly match the service life and
13 net salvage estimates. Using the same example, if after five years of the asset's
14 life the accumulated depreciation was \$60, then applying a 10% whole life
15 depreciation rate for each of the remaining five years of the asset's life would
16 result in a total recovery through depreciation of \$110 (the \$60 in accumulated
17 depreciation plus \$10 per year for five years). As a result, the whole life
18 technique would, without an adjustment, result in the recovery of the incorrect
19 amount of depreciation expense. Such situations can, and do, arise regularly
20 because depreciation is, by nature, a forecast of the future for thousands of
21 individual assets.

22
23 The remaining life technique addresses the issue described in the previous
24 paragraph by taking a prospective approach and allocating costs over the expected
25 time the related assets will remain in service. Rather than calculating depreciation
26 based on the whole service life, the remaining life technique allocates the amount
27 remaining to be recovered (which is the original cost for the group less net
28 salvage less accumulated depreciation) over its estimated remaining life. As a
29 result, the remaining life technique ensures that the full service value (original
30 cost less net salvage) will be recovered through depreciation expense – no more

1 or no less. In part for this reason, the remaining life technique is used in the vast
2 majority of U.S. regulatory jurisdictions. Its use is recommended in the
3 Depreciation Study.

4
5 **Q19. Why is the remaining life methodology superior to the whole life method?**

6 A19. A simple example will explain why the remaining life methodology is superior.
7 Assume that there is a single asset with a cost of \$100, an estimated service life of
8 10 years and no net salvage. The depreciation rate would be 10.0% and the
9 annual depreciation expense would be \$10. After five years, a new depreciation
10 study is performed and the service life is determined to be 15 years. Using the
11 whole life method, the depreciation rate would be changed to 6.67% and the
12 annual depreciation expense would be \$6.67. If the whole life technique were
13 used, then over the full 15-year service life, a total of \$116.70 would be recovered
14 through depreciation expense (\$10 per year for the first five years and \$6.67 per
15 year for the final ten years). However, this means that too much depreciation
16 expense is recovered over the service life, as more than the \$100 cost of the asset
17 is recovered through depreciation expense.

18
19 When using the remaining life technique, the depreciation expense would be the
20 same \$10 per year for the first five years. However, in contrast to the whole life
21 technique, when the updated depreciation study is performed after year five and
22 the 15-year life is determined, the depreciation rate is calculated to incorporate the
23 amount of depreciation recovered to date. That is, the remaining life technique
24 recognizes that \$50 of the \$100 has been recovered allocates the remaining \$50
25 (i.e., \$100 - \$50) in future depreciation expense over the 10 year remaining life,
26 for a depreciation rate of 5% and an annual depreciation expense of \$5. Over the
27 15-year service life of the asset, \$100 is recovered through depreciation expense
28 (\$10 per year for the first five years and \$5 per year for the last ten years). Thus,
29 the remaining life technique corrects the issue that arises from the use of the
30 whole life technique, for which too much depreciation expense would be

1 recovered.

2

3 **Q20. Please describe the contents of Schedule (NWA-2).**

4 A20. My report is presented in nine parts. Part I, Introduction, describes the scope and
5 basis for the Depreciation Study. Part II, Estimation of Survivor Curves, includes
6 descriptions of the methodology of estimating survivor curves. Parts III and IV
7 set forth the analysis for determining life and net salvage estimates. Part V,
8 Calculation of Annual and Accrued Depreciation, includes the concepts of
9 depreciation and amortization using the remaining life method. Part VI, Results
10 of Study, presents a description of the results and a summary of the depreciation
11 calculations. Parts VII, VIII and IX include graphs and tables that relate to the
12 service life and net salvage analyses, and the detailed depreciation calculations.

13

14 The table on pages VI-4 and VI-5 of Schedule (NWA-2) presents the estimated
15 survivor curve, the net salvage percent, the original cost as of December 31, 2019,
16 the book depreciation reserve, and the calculated annual depreciation accrual and
17 rate for the account or subaccount. The section beginning on page VII-2 presents
18 the results of the retirement rate analyses prepared as the historical bases for the
19 service life estimates. The section beginning on page VIII-2 presents the results
20 of the net salvage analysis. The section beginning on page IX-2 presents the
21 depreciation calculations related to surviving original cost as of December 31,
22 2019.

23

24 **Q21. Please explain how you performed your Depreciation Study.**

25 A21. I used the straight line remaining life method of depreciation, with the average
26 service life procedure. The annual depreciation is based on a method of
27 depreciation accounting that seeks to distribute the unrecovered cost of fixed
28 capital assets over the estimated remaining useful life of the unit, or group of
29 assets, in a systematic and rational manner.

30

1 **Q22. How did you determine the recommended annual depreciation accrual rates?**

2 A22. I did this in two phases. In the first phase, I estimated the service life and net
3 salvage characteristics for the depreciable group, that is, the plant account or
4 subaccount identified as having similar characteristics. In the second phase, I
5 calculated the composite remaining lives and annual depreciation accrual rates
6 based on the service life and net salvage estimates determined in the first phase.

7
8 **Q23. Please describe the first phase of the Depreciation Study, in which you
9 estimated the service life and net salvage characteristics for the depreciable
10 group.**

11 A23. The service life and net salvage analyses consisted of compiling historic data from
12 records related to Aquarion's plant; analyzing these data to obtain historic trends
13 of survivor and net salvage characteristics; obtaining supplementary information
14 from Aquarion management personnel and operating personnel concerning
15 practices and plans as they relate to plant operations; and interpreting the above
16 data based on my experience and in reference to estimates used by other water
17 utilities to form judgments of average service life and net salvage characteristics.

18
19 **Q24. What historical data did you rely on to estimate service life characteristics?**

20 A24. I analyzed accounting entries for the Company relating to plant additions,
21 transfers, and retirements recorded through 2019. The records of the Company
22 also included transactional data and surviving dollar value by year installed for
23 each plant account as of December 31, 2019. For the current study, aged data –
24 i.e., data that incorporates the actual age of retirements – was available from
25 2008 through 2019. Because many of the assets studied have historically had
26 lives that, on average, spanned many decades, the aged data was supplemented
27 with statistically aged data through 2007 based on the unaged data analyzed in
28 previous studies. This allowed for a longer period of data to be included in the
29 study. Actuarial analyses were performed on both the full period of data available
30 – i.e., both aged and statistically aged – as well as for the period for which only

1 aged data was available.

2

3 **Q25. What method did you use to analyze this service life data?**

4 A25. I used the retirement rate method for all accounts. This is the most appropriate
5 method when aged retirement data are available, because this method determines
6 the average rates of retirement actually experienced by the Company during the
7 period of time covered by the study.

8

9 **Q26. Please explain how you used the retirement rate method to analyze
10 Aquarion's service life data.**

11 A26. I applied the retirement rate method to each group of property in the Depreciation
12 Study. For each property group, I used the retirement rate method to form a life
13 table, which, when plotted, shows an original survivor curve for that property
14 group. The original survivor curve represents the average survivor pattern
15 experienced by multiple vintage groups during the experienced band studied. The
16 survivor patterns alone do not necessarily describe the life characteristics of the
17 property group; therefore, interpretation of the original survivor curves is required
18 in order to use them as valid considerations in estimating service life. The Iowa-
19 type Survivor Curves were used to perform these interpretations.

20

21 **Q27. What is an "Iowa-type Survivor Curve" and how did you use such curves to
22 estimate the service life characteristics for the property group?**

23 A27. Iowa-type Survivor Curves are a widely used group of generalized survivor
24 curves that contain the range of survivor characteristics usually experienced by
25 utilities and other industrial companies. The Iowa curves were developed at the
26 Iowa State College Engineering Experiment Station through an extensive process
27 of observing and classifying the ages at which various types of property used by
28 utilities and other industrial companies have been retired.

29

30 Iowa-type curves are used to smooth and extrapolate original survivor curves

1 determined by the retirement rate method. The Depreciation Study used Iowa
2 curves and truncated original curves to describe the forecasted rates of retirement
3 based on the observed rates of retirement and the outlook for future retirements.
4

5 The estimated survivor curve designations for the depreciable property group
6 indicate the average service life, the family within the Iowa system to which the
7 property group belongs, and the relative height of the mode. For example, the
8 Iowa 45-R3 indicates an average service life of 45 years; a right-moded, or R type
9 curve (the mode occurs after average life for right-moded curves); and a medium
10 height, 3, for the mode (possible modes for R type curves range from 0.5 to 5).
11

12 **Q28. Did you physically observe Aquarion's plant and equipment as part of the**
13 **Depreciation Study?**

14 A28. No. My typical practice is to perform physical site visits for depreciation studies.
15 However, due to restrictions in place related to the COVID-19 pandemic, I have
16 not been able to perform a physical site visit for this study. In lieu of a physical
17 site visit, the Company provided virtual site visits of certain facilities. The
18 Company also provided photos of major facilities. In addition, I conducted
19 meetings with the Company's operating and engineering personnel to develop an
20 understanding of the Company's assets and future plans.
21

22 **Q29. How did your experience in development of other depreciation studies affect**
23 **your work in this case for Aquarion?**

24 A29. Since I customarily conduct field reviews for my depreciation studies, I have had
25 the opportunity to visit similar facilities and meet with management and
26 operations personnel at many other companies. The knowledge I have
27 accumulated from those visits and meetings provides me with useful information
28 to draw upon to confirm or challenge my numerical analyses concerning asset
29 condition and remaining life estimates.
30

1 **Q30. Are the factors considered in your estimates of service life and net salvage**
2 **percents presented in Schedule (NWA-2)?**

3 A30. Yes. Discussions of the factors considered in the estimation of service lives and
4 net salvage percents are presented in Parts III and IV of the study.
5

6 **Q31. Please describe the concept of “net salvage”.**

7 A31. Net salvage is a component of the service value of capital assets that is recovered
8 through depreciation rates. The service value of an asset is its original cost less its
9 net salvage. Net salvage is the gross salvage value received for the asset upon
10 retirement less the cost to retire the asset. When the cost to retire the asset
11 exceeds the gross salvage value, the result is negative net salvage.
12

13 Because depreciation expense is the loss in service value of an asset during a
14 defined period (e.g., one year), it must include a ratable portion of both the
15 original cost of the asset and the net salvage. That is, the net salvage related to an
16 asset should be incorporated in the cost of service during the same period as its
17 original cost, so customers receiving service from the asset pay rates that include
18 a portion of both elements of the asset’s service value, the original cost and the
19 net salvage value. For example, the full service value of a \$5,000 water main may
20 also include \$1,300 of cost of removal and \$50 gross salvage, for a total service
21 value of \$6,250.

22 **Q32. Please describe how you estimated net salvage percentages.**

23 A32. I estimated the net salvage percentages by incorporating the Company’s actual
24 historical data through 2019 and considered industry experience of net salvage
25 estimates for other water companies. The net salvage percentages in the
26 Depreciation Study are based on a combination of statistical analyses and
27 informed judgment. The statistical analyses consider the cost of removal and
28 gross salvage ratios to the associated retirements during the 10-year period for
29 which data were available for Aquarion. Trends of these data are also measured
30 based on three-year moving averages and the most recent five-year indications.

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Q33. Please describe the second phase of the process that you used in the Depreciation Study in which you calculated composite remaining lives and annual depreciation accrual rates.

A33. After I estimated the service life and net salvage characteristics for the depreciable property group, I calculated the annual depreciation accrual rates for the group based on the straight line remaining life method, using remaining lives weighted consistent with the average service life procedure. The calculation of annual depreciation accrual rates was developed as of December 31, 2019.

Q34. Please describe the straight line remaining life method of depreciation.

A34. The straight line remaining life method of depreciation allocates the original cost of the property, less accumulated depreciation, less future net salvage, in equal amounts to the year of remaining service life. This method recovers the variance between the actual book reserve and the theoretical book reserve over the remaining life of each asset class.

Q35. Please describe the average service life procedure for calculating remaining life accrual rates.

A35. The average service life procedure defines the group or account for which the remaining life annual accrual is determined. For this procedure, the annual accrual rate is determined for the entire group or account based on its average remaining life and the rate is then applied to the surviving balance of the group's cost. The average remaining life of the group is calculated by first dividing the future book accruals (original cost less allocated book reserve less future net salvage) by the average remaining life for the vintage. The average remaining life for the vintage is derived from the area under the survivor curve between the attained age of the vintage and the maximum age. The sum of the future book accruals is then divided by the sum of the annual accruals to determine the average remaining life of the entire group for use in calculating the annual

1 depreciation accrual rate.

2

3 **Q36. Please describe amortization accounting in contrast to depreciation**
4 **accounting.**

5 A36. Amortization accounting is used for accounts with a large number of units, but
6 small asset values. In amortization accounting, units of property are capitalized in
7 the same manner as they are in depreciation accounting. However, depreciation
8 accounting is difficult for these types of assets because depreciation accounting
9 requires periodic inventories to properly reflect plant in service. Consequently,
10 amortization accounting is used for these types of assets, such that retirements are
11 recorded when a vintage is fully amortized rather than as the units are removed
12 from service. That is, there is no dispersion of retirements in amortization
13 accounting. All units are retired when the age of the vintage reaches the
14 amortization period. The plant account or group of assets is assigned a fixed
15 period that represents an anticipated life during which the asset will provide
16 service. For example, in amortization accounting, assets that have a 15-year
17 amortization period will be fully recovered after 15 years of service and taken off
18 the company's books at that time, but not necessarily removed from service. In
19 contrast, assets that are taken out of service before 15 years remain on the books
20 until the amortization period for that vintage has expired.

21

22 **Q37. Is amortization accounting being utilized for certain plant accounts?**

23 A37. Yes. However, amortization accounting is only appropriate for certain General
24 Plant accounts. The General Plant accounts are 391.00, 391.10, 391.20, 393.00,
25 394.00, 397.00 and 398.00. These accounts represent approximately two percent
26 of Aquarion's depreciable plant.

27

28 **Q38. Have you made additional recommendations for these amortization**
29 **accounts?**

30 A38. Yes. In order to achieve a more stable accrual rate for these accounts in the

1 future, I have recommended a five-year amortization to adjust the reserve for
2 these amortization accounts. This approach will achieve consistent amortization
3 rates for existing assets as well as future assets.
4

5 **Q39. Please provide an example to illustrate the development of the annual**
6 **depreciation accrual rate for a particular group of property in your**
7 **Depreciation Study.**

8 A39. I will use Account 345.00, Services, as an example because it is one of the largest
9 depreciable groups. The retirement rate method was used to analyze the survivor
10 characteristics of this property group. Aged plant accounting data were compiled
11 from 2008 through 2019 and statistically aged data were compiled from 1914
12 through 2007. The life tables for the 1914-2019 experience band and 2008-2019
13 experience bands are presented on pages VII-35 through VII-38 of Schedule
14 (NWA-2). The life tables display the retirement and surviving ratios of the aged
15 plant data exposed to retirement by age interval. For example, page VII-32 shows
16 \$961 retired during age interval 0.5-1.5 with \$5,925,842 exposed to retirement at
17 the beginning of the interval. Consequently, the retirement ratio is 0.0002
18 ($\$961/\$5,925,842$) and the survivor ratio is 0.9998 ($1-0.0002$). The percent
19 surviving at age 0.5 of 99.99 percent is multiplied by the survivor ratio of 0.9998
20 to derive the percent surviving at age 1.5 of 99.98 percent. This process continues
21 for the remaining age intervals for which plant was exposed to retirement during
22 the period 1914-2019. The resultant life tables, or original survivor curves, are
23 plotted along with the estimated smooth survivor curve, the 45-S2.5 on page VII-
24 34.

25
26 The experienced net salvage percentages are presented on page VIII-10 of
27 Schedule (NWA-2). The percentages are based on the result of annual gross
28 salvage minus the cost to remove plant assets as compared to the original cost of
29 plant retired during the period 2008 through 2019. The twelve-year period
30 experienced negative \$9,244 ($\$0 - \$9,244$) in net salvage for \$140,545 plant

1 retired. The result is net salvage of negative 7 percent (\$9,244/\$140,545). The
2 most recent five-year average is negative 10 percent. Therefore, based on the
3 statistics for this account, the three-year rolling averages, the trend in recent years,
4 as well as the estimates of other water companies, the recommended net salvage
5 for services is negative 5 percent.

6
7 The calculation of the annual depreciation related to original cost of Account
8 345.00, Services as of December 31, 2019, is presented on pages IX-15 and IX-16
9 of Schedule (NWA-2). The calculation is based on the 45-S2.5 survivor curve,
10 the negative net salvage of 5 percent, the attained age, and the allocated book
11 reserve. The tabulation sets forth the installation year, the original cost,
12 calculated accrued depreciation, allocated book reserve, future accruals,
13 remaining life and annual accrual. These totals are brought forward to the table
14 on page VI-4.

15

16 **Q40. Please compare the proposed depreciation expense to the current pro forma**
17 **depreciation expense as of December 31, 2018.**

18 A41. Schedule (NWA-3) sets forth the proposed versus current depreciation expense as
19 of December 31, 2019 for the Company. The overall change reflected in the
20 Aquarion Depreciation Study is an increase of \$77,262 annually.

21

22 **Q42. Have you established any special amortizations within the study?**

23 A42. Yes. I have established a 5-year amortization for certain General Plant accounts
24 in order to stabilize the current and future rates for these assets as well as ensure
25 full recovery of the service value of the assets by the time the assets are taken out
26 of service. The 5-year amortization is negative \$24,975 annually for Aquarion.

27

28 **Q43. In your opinion, are the depreciation rates set forth in Schedule (NWA-2) the**
29 **appropriate rates for the Commission to adopt in this proceeding for**
30 **Aquarion?**

31 A43. Yes. These rates appropriately reflect the rates at which the value of Aquarion's

1 assets are being consumed over their useful lives. These rates are an appropriate
2 basis for setting water rates in this matter and for the Company to use for booking
3 depreciation and amortization expense going forward.

4

5 **Q44. Does this conclude your direct testimony?**

6 A44. Yes.