

TAB 9

Testimony of Donald L. Ware

Docket No. DW 16-806
Pennichuck Water Works, Inc.
Request for Change in Rates

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STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

Docket No. DW 16-806

**Pennichuck Water Works, Inc.
Request for Change in Rates**

DIRECT TESTIMONY OF DONALD L. WARE

September 23, 2016

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1 **I. INTRODUCTION**

2 **Q. What is your name and what is your position with Pennichuck Water Works, Inc.?**

3 **A.** My name is Donald L. Ware. I am the Chief Operating Officer of the Pennichuck Water
4 Works, Inc. ("PWW"). I have worked for PWW since 1995. I am a licensed professional
5 engineer in New Hampshire, Massachusetts and Maine.

6 **Q. Please describe your educational background.**

7 **A.** I have a Bachelor in Science degree in Civil Engineering from Bucknell University in
8 Lewisburg, Pennsylvania and I completed all the required courses, with the exception of
9 my thesis, for a Masters degree in Civil Engineering from the same institution. I have a
10 Masters in Business Administration from the Whittemore Business School at the
11 University of New Hampshire.

12 **Q. Please describe your professional background.**

13 **A.** Prior to joining the Company, I served as the General Manager of the Augusta Water
14 District in Augusta, Maine from 1986 to 1995. I served as the District's engineer
15 between 1982 and 1986. Prior to my engagement with the District, I served as a design
16 engineer for the State of Maine Department of Transportation for six months and before
17 that as a design engineer for Buchart-Horn Consulting Engineers from 1979 to 1982.

18 **Q. What are your responsibilities as Chief Operating Officer of the Company?**

19 **A.** As Chief Operating Officer, I am responsible for PWW's overall operations, including
20 customer service, water supply, distribution and engineering. I work closely with
21 PWW's Chief Engineer and other senior managers to help develop PWW's Annual and
22 Three-Year Capital Improvement Plans.

1 **II. PURPOSE OF THIS TESTIMONY**

2 **Q. What is the purpose of your testimony?**

3 **A.** I will be discussing the operations of PWW and how these operations relate to and justify
4 the requested rate increase. I have been principally responsible for preparation of the
5 Filing Requirement Schedules and Rate of Return Information filed at Tabs 13 and 14 of
6 PWW's rate case filing. My testimony will specific details of these schedules. My
7 testimony will interface with Larry Goodhue's and John Boisvert's testimony in regard to
8 addressing the revenue and operational pro formas that are part of 1604.06 Schedule 1
9 ("Sch 1"), requested changes in rate design that are part of 1604.06 Schedule A ("Sch
10 A") and the capital investments that impact 1604.06 Schedule 3 ("Sch 3") and the
11 financing necessary to support the Company's Capital Improvements in 1604.08
12 Schedule 5 ("Sch 5").

13 **Q. Do you have any general comments regarding these schedules?**

14 **A.** Yes. The format of the schedules is generally consistent with the format required by
15 Order No. 25,292 in Docket No. DW 11-026, approving, among other things, the
16 modified ratemaking structure described in the settlement agreement in that proceeding.
17 To facilitate review of PWW's proposed rate relief, including the proposals for
18 modifications to the ratemaking structure, I have incorporated within these schedules
19 analysis of several scenarios. One scenario applies the ratemaking structure as it was
20 approved in DW 11-026. This scenario is referred to in the schedules as "Current Rate
21 Model" (see, for example, Exhibit DLW-1) or as "Conventional" (see, for example,
22 Schedule A Perm – Conventional). A second scenario applies the modifications

1 requested by PWW in its Petition for Specific Modifications to Ratemaking Structure.

2 This scenario is referred to in the schedules as “Modified Rate Model” (see, for example,

3 Exhibit DLW-1) or as “Modified” (see, for example, Schedule A – Modified). A third

4 scenario presented in the schedules is referred to as the “Pre-Acquisition Rate Model”

5 (see, for example, Exhibit DLW-1) or as “Pre-Acquisition Ownership” (see various

6 Schedule A pages). This reference to “Pre-Acquisition” refers to PWW’s operating and

7 financial structure as it existed prior to the City of Nashua’s acquisition of Pennichuck

8 Corporation (“Pennichuck”) in January 2012. In contrast, the schedules also refer at

9 times to “Post-Acquisition,” which refers to PWW’s operating and financial structure as

10 it exists now after the City’s acquisition of Pennichuck.

11 **Q. Why have you incorporated these various scenarios in the ratemaking schedules and**
12 **rate of return information?**

13 **A.** As indicated by PWW’s full rate case filing, PWW requires rate relief that will allow it to
14 generate revenues sufficient to cover its reasonable operating expenses, its obligations to
15 the City as reflected by the City Bond Fixed Revenue Requirement (“CBFRR”), its
16 principal and interest obligations on its debt, and its obligations under its covenants. As
17 described in more detail in Mr. Goodhue’s testimony, PWW’s experience with
18 consummating several significant financing transactions and working with underwriters,
19 advisors and potential lenders, and its knowledge regarding the practical impacts of
20 PWW’s post-acquisition operations, have allowed PWW to identify modifications to
21 PWW’s ratemaking structure that are required in order for PWW to continue to be able to
22 provide safe, high quality water service at affordable prices. This experience and

1 knowledge has led to the specific modifications proposed in this proceeding. PWW has
2 prepared the ratemaking schedules and rate of return information to incorporate and
3 demonstrate the effects of the proposed modifications within the same analysis that
4 applies the approved ratemaking structure. I believe that this integrated presentation will
5 allow parties to understand the operation of the proposed modifications in the most
6 effective and efficient manner possible.

7 **III. DISCUSSION OF SPECIFIC SCHEDULES AND INFORMATION**

8 **Q. Please discuss the various Schedule A's that are part of the filing.**

9 **A.** I have included three Schedule A's as part of the 1604.06 schedules titled as follows:

- 10 1. Sch A Perm-Conventional ("Sch A P-C")
- 11 2. Sch A Perm Five Year Average Consumption ("Sch A 5 Yr Ave") and
- 12 3. Schedule A-Modified

13 **Q. Please explain the formation Sch A Perm-Conventional.**

14 **A.** The first column Sch A P-C reflects data from the Test Year ("TY") ending December
15 31, 2015 without any pro formas for the City Acquisition. Sch A P-C follows the rate
16 making methodology used?? by the Post Acquisition Company as approved in DW11-
17 026 with the exception of the pro forma associated with incorporating the repayment of
18 the City Eminent Domain costs as part of the City Bond Fixed Revenue Requirement
19 ("CBFRR") as detailed in para. 3.c. below. The first pro forma column titled "PRO
20 FORMA Adjustments to Test Year" adjusts the 2015 TY data as follows:

- 21 (1) The 2015 TY ending rate base was reduced by \$122,082,072 reflecting the
22 removal of the equity that was purchased by the City along with the Municipal

1 Acquisition Regulatory Adjustment (“MARA”). The Pre-Acquisition Equity and
2 MARA were removed from the Company’s rate base because in DW 11-026, the
3 Commission granted the Post Acquisition Company the CBFRR component to its
4 revenues in lieu of a return on these equity related portions of rate base.

5 (2) The 2015 TY Adjusted Net Operating Income was pro formed to reflect known
6 and measurable changes to the 2015 TY revenues, operating expenses and
7 operating deductions that were only partially incurred during 2015 or will be
8 incurred within 12 months of the end of the 2015 TY. These operating expense
9 and deduction pro formas will be discussed in detail later in my testimony when I
10 discuss the formulation of Sch 1.

11 (3) The 2015 TY Current Revenues w/CBFRR and WICA were pro formed as
12 follows:

13 (a) The revenues were reduced by the Company’s share of the City Bond
14 Fixed Revenue Requirement (“CBFRR”), or \$7,465,139, per Sch 1 Attachment A.

15 (b) The revenues were reduced by the WICA surcharge collected in 2015 in
16 the amount of \$367,548 per Sch 1 Attachment A1.

17 (c) The revenues were reduced by a pro rata share of the dollars required to
18 pay the City of Nashua back for the expenses incurred in its eminent domain
19 litigation with the Pre-Acquisition Company amortized over a 10 year time frame
20 in accordance with Sch 1 Attachment A. Per Mr. Goodhue’s testimony, the
21 Company believes the repayment of the City of Nashua’s Eminent Domain

1 expenses in the amount of \$440,620 per year for the next 10 years should be part
2 of the CBFRR.

3 **Q. Please describe the proforma column on Sch A P-C titled "PRO FORMA**
4 **Adjustments for 2016 Step Increase".**

5 **A.** The pro forms in this column adjust the PRO FORMA 12 Months Ending 12/31/2015 to
6 the PRO FORMA 2016 Step Increase for Capital additions as follows:

7 (1) The consolidated rate base was pro formed to reflect additions to rate base that
8 were completed or the Company expects will be completed and used and useful
9 by the end of 2016 net of asset retirements that occurred during 2016. The 2016
10 plant additions and the expenses associated with those additions are found in Sch
11 3-Step Additions. The 2016 plant retirements and the associated reduction in
12 expenses are found in Sch 3 Attachment A-Step.

13 (2) The PRO FORMA 12 Months Ending 12/31/2015 were pro formed to reflect
14 changes to the Company's operating deductions associated with 2016 plant
15 additions and retirements. These operating expense deduction pro formas will be
16 discussed in detail later in my testimony when I discuss the formulation of Sch 1.

17 **Q. Are you asking for the Step increase in addition to the requested 2015 WICA**
18 **surcharge?**

19 **A.** No. The Company is asking for a Step increase in lieu of the WICA Surcharge. The
20 Company is requesting that the WICA pilot be eliminated in favor of Step increases for
21 this and future rate cases. This request is based on the fact that the Company completes
22 many projects that are not WICA eligible. The non-WICA eligible projects must be

1 financed and the associated debt service for these projects are not recoverable in the
2 WICA surcharge. Examples of non-WICA eligible projects are the new distribution
3 building, the replacement of meters with leaded brass, the reconstruction of the Harris
4 Pond Spillway, the rehabilitation of the Dean and Main Station, information technology,
5 and operating equipment. The Company's capital structure, without an equity return,
6 does not provide the free cash flow necessary to pay the debt service associated with
7 these types of non-WICA capital investments between rate cases.

8 **Q. Please explain the last two columns of Sch A P-C.**

9 **A.** The last two columns pro form the revenue requirement of the Post Acquisition
10 Company, including the 2016 Step increase to the projected revenue requirement of the
11 Pre-Acquisition Company, including the Step increase. The proforma to the rate base of
12 the Post Acquisition to the Pre-Acquisition Company is reflected in Sch 3. The
13 calculation of the Pre-Acquisition versus Post Acquisition Company Rate of Return is
14 reflected in Sch A1. The pro forma to the Post Acquisition Net Operating Income is
15 calculated per Note (3) on Sch A P-C. Lastly, the Current Water Revenues are pro
16 formed by adding back the CBFRR and City Eminent Domain Recovery Revenues.

17 **Q. Please explain the reasoning behind providing two additional Schedule A's, one**
18 **titled "Schedule A Perm – Five Year Average" ("Sch A 5 Yr Ave") and one titled**
19 **"Schedule A-Modified".**

20 **A.** The two additional Schedule A's reflect the Company's request for the use of alternate
21 revenue requirement methodologies to the conventional revenue requirement
22 methodology followed in Schedule A P-C.

1 **Q. Please explain the alternate rate treatment sought by the Company on Schedule A**
2 **Perm Five Yr Average.**

3 **A.** The requested rate treatment involves modifying the test year ending revenues to reflect
4 the average of last five years of volumetric sales (2011 through 2015). The purpose of
5 this adjustment is to eliminate the wide swings in revenues that can occur between a wet
6 test year followed by a dry year or a dry test year followed by wet year. The
7 normalization of volumetric sales and expenses from the test year to the average of five
8 years of volumetric sales and the associated production related expenses results in smaller
9 swings in Net Income than would otherwise be associated with swings in summer
10 consumption. The Sch A Perm-5 Yr Ave average consumption uses the base PRO
11 FORMA 12 Months Ending 12/13/15 from Sch A P-C to calculate the required
12 permanent revenue requirement based on the five-year average as well as the base PRO
13 FORMA 2016 Step Increase for Capital Additions to calculate the required Step Increase
14 revenue requirement based on the five-year average. The impact of using the five-year
15 average consumption on the revenues and operating expenses are reflected in Sch 1 in the
16 column titled PRO FORMA for 2016 Step Increase Based On Five Year Average.

17 **Q. Is there any difference between the pro forma to revenues and operating expenses**
18 **between the pro forma test year ending 12/31/2015 Based on Five Year Ave and the**
19 **PROI FORMA 2016 Step Increase?**

20 **A.** No. The only change to Sch 1 between these Five Year Ave columns is the net change in
21 operating deductions associated with depreciation expense and property taxes associated
22 with the additions to and retirements of plant between 1/1/2016 and 12/31/2016.

1 **Q. Please explain how the Rate of Return for Post Acquisition Company was calculated**
2 **for each of the Sch A's?**

3 **A.** The Rate of Return for the Post Acquisition Company was calculated on the Rate of
4 Return 1604.08 Sch 1. This schedule reflects the Company's 2015 TY cost of debt as
5 detailed on 1604.08 Sch 5. The Common Equity for the Post Acquisition Company is the
6 Equity on the Company's Books as of 12/31/2015. The Return on Equity of 5.84% is
7 calculated per Order 25,292 in DW 11-026 and as detailed on Rate of Return 1604.08
8 Sch 1.

9 **Q. Please explain how the Rate of Return for Pre Acquisition Company was calculated**
10 **for each of the Sch A's?**

11 **A.** The Rate of Return for the Pre Acquisition Company was calculated in the Rate of Return
12 1604.08 Sch 1. For purposes of calculating the Pre Acquisition Company's Rate of
13 Return the following assumptions were made:

- 14 (1) That the Capital Structure would have a debt to equity ratio of 50/50
15 (2) That the cost of debt for the Pre Acquisition Company would be the same as the
16 cost of debt for the Post Acquisition Company. This is a conservative approach
17 as the Pre Acquisition Company has a Bond rating of BBB versus the Post
18 Acquisition Company's Bond Rating of A+.
19 (3) The allowed Return on Equity for the Pre Acquisition Company was set at 9.60%
20 which was the last found ROE for the Aquarion Water Company.

21 **Q. Please explain Sch A – Modified?**

22 **A.** Sch A – Modified derives the Company's revenue requirement by adding the sum of:

- 1 (1) The CBFRR including the repayment of the City's eminent domain expenses;
- 2 (2) the revenue required to cover the Company's operating expenses which are the
- 3 result of adding the Total Operating expenses to the expenses associated with the
- 4 Amoritzation Expense, Property tax and Payroll tax operating deductions found
- 5 on Sch 1; and
- 6 (3) The revenue necessary to cover the Company's annual debt service (principal and
- 7 interest payments) associated with all plant in service by the end of the Test Year
- 8 ending 12/31/2015 and in the case of the requested Step increase for all plant in
- 9 service as of the end of 12/31/2016 as detailed in Sch 5 of the 1604.08 Schedules.
- 10 This revenue requirement replaces the conventional revenue requirement
- 11 methodology that is based on rate base, rate of return and depreciation expense as
- 12 further detailed in Mr. Goodhue's testimony.

13 **Q. Are the results of the revenue requirement derived from conventional rate making**

14 **methodology with the CBFRR versus the modified rate making methodology for the**

15 **Post Acquisition Company versus conventional methodology summarized anywhere**

16 **within your testimony?**

17 **A. Yes. Please see Exhibit DLW-1 for this comparison. The comparison of the revenue**

18 **requirements includes the requested Step increase. This Exhibit details revenue**

19 **requirements as follows:**

- 20 (1) Post Acquisition Company - Current rate making methodology - \$32,656,581 or a
- 21 12.92% increase over current revenue requirement. There is no 5 year
- 22 normalization of the revenue requirement in this model.

1 (2) Post Acquisition Company – Modified Rate Model - \$33,432,344 or a 17.21%
2 revenue increase over the current revenue requirement including an adjustment
3 reflecting the impact to the Net Operating Income of using the 5-year average for
4 volumetric sales.

5 (3) Pre-Acquisition Company - Current rate making methodology - \$38,034,512 or a
6 31.52% increase over current revenue requirement. There is no 5 year
7 normalization of the revenue requirement in this model.

8 **Q. How do these increases impact the average single family residential water bill?**

9 **A.** Please see Exhibit DLW-1 for the impact of each of the revenue requirement increases
10 detailed above on the average single family residential bill on a monthly basis. In regard
11 to the Company's request for the modified rate making methodology, which resulted in a
12 requested overall rate increase of 17.21%, it would result in an increase of \$8.63 per
13 month to the average single family monthly water bill of \$50.14 per month. This would
14 result in an average monthly water bill of \$58.77.

15 **Q. Please discuss the pro formas to the Total Revenues detailed in Schedule 1, the**
16 **Operating Income Statement.**

17 **A.** The Company's Schedule 1 begins with the TY ending 12/31/2015 Revenues. The TY
18 ending Revenues were pro formed in a series of steps as follows:

19 (1) In arriving at the PRO FORMA Revenues for the 12 months ended 12/31/2015, the TY
20 Revenues were pro formed for the 12 months ending 12/31/2015, by reducing the TY
21 revenues by the sum of: (a) the CBFRR allowed revenues, inclusive of an amount
22 needed in the allowed revenue which is required to repay the City of Nashua for the

1 Company's prorated share of the City's eminent domain expense (per Sch 1 Attachment
2 A); and (b) by the WICA surcharge revenues (per Sch 1 Attachment A1). Other
3 operating revenues are also adjusted to reflect an increase in other operating revenue, per
4 Sch 1 Attachment A.

5 (2) No adjustments were required to the revenues between the PRO FORMA 12 Months
6 12/31/15 Revenues and the PRO FORMA 2016 Step Increase for Capital Additions
7 Revenues. The PRO FORMA 2016 Step Increase for Capital Additions Revenues were
8 pro formed to the PROF FORMA 2016 Step Increase revenues Based On Five Year Ave
9 by adjusting the pro forma 2016 Step Increase Revenues by the difference in PRO
10 FORMA TY volumetric sales revenues and the average volumetric sales revenues over
11 the past five years (2011-2015) as detailed in Sch 1 Attachment A1.

12 **Q. Please discuss the pro formas to the Total Operating Expenses detailed in Schedule**
13 **1, the Operating Income Statement.**

14 **A.** PWW's Schedule 1 begins with the TY ending 12/31/2015. The Pro forma adjustments
15 reflect known and measurable increases/decreases to the 12/31/2015 Test Year Operating
16 Expenses that occurred during the test year or will occur within 12 months of the end of
17 2015 TY resulting in the PRO FORMA 12 Months ending 12/31/2015 Operating
18 Expenses. The next PRO FORMA column reflects changes in the Operating Expenses
19 associated with the 2016 Step Increase for Capital Additions. The final PRO FORMA
20 Adjustments to the Operating Expenses on Sch 1 are associated with the change in
21 pumpage expenses associated with using the Five Year average production versus the

1 2015 TY production. Each of the PRO FORMA adjustments in Schedule 1 are
2 explained on the Schedule 1 support schedules.

3 **Q. Please discuss each of the Sch 1 Support Schedules between the Twelve Months**
4 **12/31/2015 and the Pro Forma Test Year ending 12/31/2015 in regard to Operating**
5 **Expenses.**

6 **A. Sch 1 Attachment B Page 1 – Production Account.** Pro forma Production expenses are
7 expected to be \$56,179 greater than the actual 2015 TY production expenses or about a
8 1.2% increase. This increase is associated with increases in wages and purchased water
9 costs. These increased expenses are partially offset by reduced purchased power and
10 chemical expenses. The reduction in purchased power and chemical expenses reflect
11 new contract pricing for 2016 which will result in lower electrical and chemical costs for
12 2016 than 2015.

13 **Sch 1 Attachment B Page 2 – Distribution Account.** Pro forma Distribution expenses
14 are expected to be \$24,529 greater than the 2015 TY Distribution expenses or about a
15 1.3% increase. This increase is associated with increases in nonunion and union labor
16 wage rates which includes the full annualization of the 2015 TY Engineering salaries to
17 their 2016 wage rate. The wage increases were partially offset by replacement of retiring
18 employees with new employees at lower compensation levels.

19 **Sch 1 Attachment B Page 3 – Engineering Account.** Pro forma Engineering expenses
20 are expected to be \$44,904 greater than the 2015 TY Engineering expenses or about a
21 4.9% increase. The increase in engineering expense is the result of increased wage rates
22 which includes the full annualization of the 2015 TY Engineering salaries to their 2016

1 wage rate **Sch 1 Attachment B Page 4 Customer Accounts and Collection.** Pro
2 forma Customer Accounts and Collection expenses are expected to be \$3,057 greater
3 than the 2015 TY expenses or about a 0.7% increase. The increase in expenses is the
4 result of increased print management costs of \$9,171 which, in turn, are partially offset
5 by a projected \$6,114 decrease in mailing expense. Specifically, there was a \$0.02 per
6 piece decrease in postage that went into effect on April 10, 2016.

7 **Sch 1 Attachment C Page 1 Administrative and General Account.** Pro forma
8 Administrative and General expenses are expected to be \$1,147,022 greater than the
9 actual 2015 TY expenses or about an 18.8% increase. The largest portion of the pro
10 forma increase (58.9%) is associated with a one-time write off of \$674,750 of Early
11 Retirement Health Expense that occurred in 2015 resulting in a non-reoccurring expense
12 reduction. This write-off is based upon a change in the dynamics of the plan, with no
13 ongoing contributions to the plan on behalf of the Company, as all the benefits under the
14 plan are paid for by enrolled employees with monthly premium payments by them as
15 enrolled. There is no expense associated with the Early Retirement Health Expense in
16 2016. The impact is a pro forma increase of \$674,750.

17 **Q. Please explain the remaining pro forma changes to the Administrative and General**
18 **Account expenses.**

19 **A.** Annualized Salary increases and the addition of new employees accounted for an increase
20 in wages in the Administrative and General account of \$269,856 or 11.8%. Schedule 1
21 Attachment C Page 2 details the changes in wages by Company Department.

22 **Q. Please explain the changes to and additional salaries by Department.**

1 A. **Officer's Salaries and Wages** are pro formed to decrease by \$166,267 of 26.9%. The
2 decrease is the due to the fact that the new CEO was the Company's former CFO. The
3 new CEO will continue to perform the duties of the CFO and as such the Company will
4 not be replacing the CFO position. Some of the CFO duties of the combined CEO/CFO
5 position were down-streamed to the Accounting Department which is part of the reason
6 for the increase in the Accounting Department wages.

7 **Salaries & Wages: Accounting** are pro formed to increase by \$74,533 or 13.2%. This
8 increase is the result of:

9 1. Increased salaries resulting from a shift in job responsibilities as the
10 Company's accounting manager in 2015 took on the CFO's controller duties
11 and the Company's Regulatory/Treasury Financial Analyst took on a portion
12 of the CFO's Treasury duties.

13 2. The Company hired a Regulatory/Financial Analyst to pick up certain duties
14 from the accounting employees mentioned above as a result of their taking on
15 some of the CFO's duties.

16 **Wages: Revenue and Customer Operations** are pro formed to increase \$241,301 or
17 40.9%. This increase in salaries is the result of backfilling a Senior Supervisor position
18 that was vacant for most of 2015 in addition to replacing 4 customer service specialists
19 that left the company during 2015 and were initially replaced with temporary employees
20 until their positions could be filled with full time employees. Additionally two new
21 customer service employees have been hired in 2016 to fully staff the department.

1 **Salaries & Wages: Admin** are pro formed to increase by \$9,091 or 5.4%. This increase
2 was the primarily the result of a market adjustment to the HR Director's salary.

3 **Salaries & Wages: IS** are pro formed to increase by \$111,198 or 24.3%. This increase
4 was the primarily the result of adding a fifth employee to the Information Systems ("IS")
5 team. The fifth employee is required to help the IS Department keep up with the growing
6 demands of the hardware and software infrastructure necessary to support the Company's
7 implementation of Geographical Informational Systems ("GIS"), Asset Management,
8 Electronic Time Keeping and Customer Appointments as well as supporting the
9 Company's existing IS infrastructure. A portion of this increase in wages was funded by
10 the decrease in Officer's Salaries and Wages, resulting from the CEO/CFO transition in
11 late 2015.

12 **Q. Please explain the other pro formas to the Administrative and General Account**
13 **detailed on Schedule 1, Attachment C, Page 1**

14 **A.** The following pro forma adjustments were made:

- 15 (1) Increase in benefits costs in the amount of \$208,094 associated with the increase
16 in payroll associated with both Union and Non Union employees.
- 17 (2) Increase in the Company's Regulatory Commission Expense in the amount of
18 \$13,138.
- 19 (3) Increase in Pension Expenses of \$84,036 offset by a decrease in Post 65 Health
20 Retirement Plan expenses of \$23,686 for a net increase in Pension expense of
21 \$60,350. These increases and decreases are the result of fluctuations in the
22 discount rate on future pension and post-retirement health obligations, due to

1 interest rate conditions in the bond market, pursuant to Federal regulations related
2 to the actuarial valuation of these plans.

3 (4) A decrease in Insurance Expense of \$91,050, primarily related to favorable
4 experience modification for the Company's worker's compensation plan.

5 (5) An increase in Computer Maintenance Expenses of \$66,582 primarily the result
6 of maintenance and licensing costs associated with the implementation of GIS,
7 Asset Management and Electronic time keeping and customer appointments. The
8 increased software/hardware expenses are documented in Sch 1 Attach C, Pg 4.

9 (6) A decrease in Outside Services Expenses of \$54,698 associated with a reduction
10 in temporary customer service employees who have been replaced with full time
11 customer service employees.

12 **Q. There are no proforma increases associated with Health Care expense. Please**
13 **explain.**

14 **A.** The increases to the Company Health Insurance expense were offset by an increase in
15 employee contributions toward their health insurance premiums.

16 **Q. Please explain the Pro forma increase in Interdivisional Management fee, pursuant**
17 **to the 2006 Cost Allocation Agreement, of \$321,333**

18 **A.** This increase is the result of allocating 26% of the Company's Expenses to the other
19 subsidiaries of Pennichuck Corporation (Pennichuck East Utility, Inc., Pittsfield
20 Aqueduct Company and Pennichuck Water Service Company) in accordance with the
21 2006 Cost Allocation Agreement between Pennichuck Corporation's subsidiaries

1 previously approved by the Commission. The calculation of the \$321,333 allocation is
2 detailed on Sch 1 Attachment C Page 5.

3 **Q. Please compare the total operating expenses for the pro formed Year Ending (“YE”)**
4 **12/31/15 operating expenses when compared to the YE 2013 total operating**
5 **expenses?**

6 **A.** The Pro forma TY 15 operating expenses (which is the equivalent to the projected YE
7 2016 operating expenses) are \$1,736,893 greater than the year ending YE 13 operating
8 expenses. During 2015 the Company pumped 12.0% more water than in 2013 resulting
9 in a year over year increase in production costs of \$248,100. Therefore the comparable
10 Pro forma TY 15 operating expenses (adjusted for reduced pumpage expenses) were
11 \$1,488,793 greater than the year ending YE 13 operating expenses or an increase of about
12 13.4% over three years resulting in an average annual increase in total operating expenses
13 of about 4.3%.

14 **Q. Please discuss the pro formas to the Total Operating Deductions as detailed in**
15 **Schedule 1, the Operating Income Statement.**

16 **A.** The progression of pro formas to the Company’s Total Operating Deductions as detailed
17 in Schedule 1 follows the same steps as detailed in response to the question regarding pro
18 formas to Total Operating Expenses, detailed previously in this testimony.

19 **Q. Please discuss each of the Sch 1 Support Schedules between the Twelve Months**
20 **12/31/2015 and the Pro Forma Test Year ending 12/31/2015 in regards to Operating**
21 **Deductions.**

1 **A.** The pro forma to the Operating Deductions associated with changes to Depreciation and
2 the Acquisition Adjustment Expenses are as reflected in Sch 1 Attachment E. These
3 expenses were reduced by \$1,250,715 reflecting the impact of four (4) pro formas as
4 follows:

- 5 (1) The annualization of a half year of depreciation expense to a full year of
6 depreciation expense for plant placed in service between 1/1/2015 and
7 12/31/2015. This resulted in a pro forma increase in depreciation expense of
8 \$234,166.
- 9 (2) The elimination of a full year's worth of depreciation associated with plant that
10 was retired from service between 1/1/2015 and 12/31/2015. This resulted in a pro
11 forma decrease in depreciation expense of \$46,679.
- 12 (3) A reduction in depreciation expense in the amount of \$69,701 associated with a
13 settlement agreement reached in DW 06-073 and approved in Order No. 24,751 in
14 regard to the accounting treatment related to Cost of Removal.
- 15 (4) A reduction in depreciation expense in the amount of \$1,368,501. This was
16 associated with the elimination of depreciation expense related to the elimination
17 of \$48,875,050 of equity-related assets in accordance with Order 25,292 in
18 Docket No. DW11-026.

19 **Q.** **Please discuss the pro forma to the Operating Deductions related to Amortization**
20 **Expense.**

1 **A.** The pro forma to the Operating Deductions associated with changes to Amortization
2 Expenses are as reflected in Sch 1 Attachment F. These Expenses were reduced by
3 \$2,103,253 reflecting the impact of five pro formas as follows:

- 4 (1) The annualization of deferred charges that the Company began amortizing during
5 2015. This resulted in a pro forma increase in the amount of \$12,078.
- 6 (2) The elimination of amortization expenses associated with deferred charges that
7 the Company had fully amortized before the end of 2015. This resulted in a
8 reduction in amortization expenses of \$36,799.
- 9 (3) The elimination of the 2012 Rate Case Expenses that were fully amortized by the
10 end of 2015. This resulted in a reduction of expenses of \$95,664.
- 11 (4) The elimination of the amortization of the MARA in accordance with Order
12 25,292 (DW11-026) in the amount of \$1,735,394.
- 13 (5) The return of the deferred credit via three years of amortization of the Rate
14 Stabilization Funds in excess of \$5,000,000 as of 12/31/2015. This resulted in a
15 reduction of amortization expense in the amount of \$247,474.

16 **Q. Please discuss the pro forma to the Operating Deductions related to Property Tax**
17 **Expense.**

18 **A.** The pro forma to the Operating Deductions associated with Property Tax Expense are as
19 reflected in Sch 1 Attachment G and reflect the change in property tax expenses
20 associated with Plant additions and retirements that occurred during 2015. This resulted
21 in a pro forma increase in the amount of \$328,944.

1 **Q. What is the overall impact of the change in Property Taxes between the YE 15 and**
2 **YE 13?**

3 **A.** Property tax expenses increased \$439,337 between the YE 2013 and YE 2015 or 12.2%.
4 During this same time frame Plant in Service, net of depreciation expense and the
5 Municipal Acquisition Regulatory Asset, increased by 7.6%.

6 **Q. Please explain the Pro Forma adjustments to Sch 1 in regard to the request Step**
7 **Increase associated with the plant additions made between 1/1/2016 and 12/31/2016.**

8 **A.** There are no pro forma adjustments to the Total Operating Expenses associated with the
9 Step Increase request. There is a total pro forma increase of \$721,553 related to
10 increased Operating Deduction expenses associated with the Step Increase as follows:

11 (1) An Increase in depreciation expense of \$581,893 per Sch 3 – STEP Additions.

12 The increase in depreciation expense is associated with the plant projected to be
13 added and retired between 1/1/2016 and 12/31/2016.

14 (2) An increase in property tax expense of \$598,028 per Sch 3 – STEP Additions.

15 The increase in property tax expenses are associated with the plant projected to be
16 added and retired between 1/1/2016 and 12/31/2016.

17 (3) A reduction in Income tax expense of \$458,369 per Sch 1 Attachment G

18 associated with the reduction in Net Income created by higher depreciation and
19 property tax expenses associated with the 2016 plant additions.

20 **Q. Please explain the Pro Forma adjustments made in Sch 1 to the Total Operating**
21 **Expenses applied to the PRO FORMA 2016 Step Increase for Capital Additions**

1 **resulting from using the FIVE YEAR AVE for volumetric sales as opposed to the**
2 **TY 2015 volumetric sales.**

3 **A.** Just as revenue levels were normalized in Sch 1 to reflect the Five Year average of
4 volumetric sales, all operating expenses that are impacted by the change in volumetric
5 sales have been normalized to reflect the expenses associated with producing the Five
6 Year Average volumetric sales volumes versus the TY 2015 volumetric sales volumes.

7 **Q.** **What operating expenses are impacted by a change in volumetric sales.**

8 **A.** The primary expenses impacted by a change in volumetric sales are the electric expenses
9 required to produce and deliver the water to customers, the cost of chemicals required to
10 produce the water for customers and the cost of purchasing water for the Company's
11 customers from other water systems.

12 **Q.** **What is the total impact on the operating expenses detailed above as a result of**
13 **using the Five Year Average volumetric sales instead of the 2015 TY volumetric**
14 **sales?**

15 **A.** The impact on operating expenses, per Sch 1 Attachment B Page 1, is a reduction of
16 \$166,859 in expenses which are the result of the following pro forma adjustments:

- 17 (1) A reduction in purchased water expenses in the amount of \$83,175.
18 (2) A reduction in electric expenses associated with a 6.64% reduction in plant
19 production in the amount of \$43,064.
20 (3) A reduction in WTP chemical costs associated with a 6.56% reduction in plant
21 production in the amount of \$40,620.

22 **Q.** **Please describe Sch 3 and the pro fromas made to it:**

1 A. Sch 3 is used to develop the Company's Total Rate Base. The Schedule begins with the
2 Company's 2015 TY Average Rate Base. The following pro formas were made to the
3 2015 TY Ave. Rate Base to create the Pro forma Test Year Rate Base:

4 (1) Plant in Service was adjusted per Sch 3 Attachment A as follows:

5 (a) A reduction of \$48,875,050 in the 2015 TY Average rate base resulting
6 from the elimination of the equity on the Company's books at the time of
7 the acquisition by the City of Nashua.

8 (b) An increase in the 2015 TY Average rate base of \$4,879,748 to reflect the
9 difference between the 13 month average and 2015 TY rate base value for
10 plant additions that occurred between 1/1/2015 and 12/31/2015.

11 (c) A reduction in 2015 TY Average rate base of \$1,223,863 to reflect the
12 difference between the 13 month average and 2015 YE rate base value for
13 plant retirements that occurred between 1/1/2015 and 12/31/2015.

14 (2) Accumulated Depreciation was increased by \$234,166 reflecting the net impact of
15 adjusting depreciation expense for plant additions and retirements made between
16 1/1/2015 and 12/31/2015 to reflect a full years depreciation expense per Sch 3
17 Attachment C.

18 (3) The Rate Stabilization Fund ("RSF") was reduced by \$376,389 reflecting the
19 return of RSF funds in excess of \$5 million as of 12/31/2015 per Sch 3
20 Attachment B.

- 1 (4) Working Capital was increased by \$117,672 reflecting the 2015 pro forma
2 increases to the 2015 TY operating expenses and a 12.33% Working Capital Rate
3 per Sch 3 Attachment D.
- 4 (5) Other & Deferred Charges were reduced by \$72,881,037 reflecting the
5 elimination of of the MARA and adjustments for other deferred debits per Sch 3
6 Attachment B.
- 7 (6) Deferred Credits were increased by \$1,336,715, primarily associated with the
8 Rate Stabilization Fund and Principal Forgiveness associated with State
9 Revolving Fund loans per Sch 3 Attachment F.
- 10 (7) The Unfunded FAS 106 and 158 costs were increased by \$2,152,272 per Sch 3
11 Attachment E.

12 **Q. Please explain the pro formas made to the Pro Forma 2015 Test Year Rate Base to**
13 **reflect the impact of the 2016 Capital additions associated with the requested 2016**
14 **Step Increase.**

15 **A.** The following pro forma was made to the Pro Forma Test Year Rate Base to create the
16 Pro Forma 2016 Step Increase for Capital Additions made during 2016:

17 A net increase of Plant in Service in the amount of \$19,733,892. The net increase reflects
18 the year end rate base values of plant added between 1/1/2016 and 12/31/2016 less the
19 elimination of any rate base associated with plant retirements that occurred between
20 1/1/2016 and 12/31/2016.

21 **Q. Please explain the pro forma reduction to working capital associated with using the**
22 **Five Year Average Revenue modification to rate making.**

1 **A.** The \$20,574 reduction in working capital is due to the fact that annual operating
2 expenses associated with using the five year average volumetric sales versus the 2015 TY
3 volumetric sales results in decreased operating expenses of \$166,859 associated with
4 producing this water.

5 **Q.** **Please explain the pro formas made to the Post Acquisition Pro Forma 2016 Step**
6 **Increase for Capital Additions Rate Base to the Pro Formas Pre Acquisition**
7 **Ownership for 2016 Step Increase Rate Base.**

8 **A.** (1) Increase in Plant in Service by \$48,875,050 for the equity related plant that was
9 eliminated from the Post Acquisition Company plant.

10 (2) Eliminate \$4,987,046 to reflect the elimination of the Rate Stabilization Fund.

11 (3) Increase working capital by \$174,941 reflecting the increased operating costs
12 associated with operating the Pre Acquisition Company versus the Post
13 Acquisition Company per Sch 3 Attach D.

14 (4) Decrease in Deferred Credits associated with the elimination of the Rate
15 Stabilization Fund.

16 **Q.** **Please explain Sch 3 – STEP additions.**

17 **A.** Sch 3 STEP Additions schedule provides the information necessary to calculate the pro
18 formas to Sch 1, Sch 3 and the Sch A's necessary to calculate the requested Step increase
19 revenue requirements. Sch 3 STEP Additions provides the following information:

20 A list of each capital project that the Company plans to complete between 1/1/2016 and
21 12/31/2016. Each project has the following information contained within this schedule:

22 a. Project Name

- 1 b. Project Description
- 2 c. Project Work Order Number
- 3 d. Estimated project cost. The final cost for each project through 12/31/2016 will
- 4 be available for audit by the end of January 2017.
- 5 e. The NHPUC Chart of Account number for each project.
- 6 f. The estimated cost that will be assigned to NHPUC Chart of Account for each
- 7 project.
- 8 g. The community in which each project is being completed.
- 9 h. Whether the project is subject to the Statewide utility tax or not.
- 10 i. The combined local property and State utility tax rate where each project is being
- 11 constructed.
- 12 j. The projected Annual Utility and property tax associated with each project.

13 **Q. Please explain the Sch 1 pro formas associated with the requested 2016 Step**
14 **Increase.**

15 **A. The three pro forma adjustments to the Sch 1 expenses associated with the proposed 2016**
16 **additions to plant are as follows:**

- 17 (1) The net increase in depreciation expense of \$581,893 associated with the plant
- 18 additions and the plant retirements projected to be completed between 1/1/2016
- 19 and 12/31/2016. The additional depreciation expense associated with the plant
- 20 additions are calculated on Sch 3 – STEP additions. The reduction in depreciation
- 21 expense associated with plant retirements is detailed on Sch 3 Attachment A –
- 22 STEP.

1 (2) The net increase in property tax expense of \$598,028 associated with the plant
2 additions and the plant retirements projected to be completed between 1/1/2016
3 and 12/31/2016. The additional property tax expense associated with the plant
4 additions are calculated on Sch 3 – STEP additions. The reduction in property tax
5 expense associated with the plant retirements is detailed on Sch 3 Attachment A –
6 STEP.

7 (3) The decrease in income tax expense in the amount of \$458.369 resulting from the
8 taxable deductions due to increased depreciation and property tax expenses
9 associated with the 2016 additions to plant.

10 **Q. Please explain the Sch 3 pro forma associated with the requested 2016 Step Increase.**

11 A. There is a net increase of \$19,733,892 to Plant in Service associated with the projected
12 plant additions and retirements that are expected to be completed between 1/1/2016 and
13 12/31/2016. The projected cost of the plant additions are detailed on Sch 3 – STEP
14 Additions. The projected reduction in Plant in Service associated with projected plant
15 retirements are detailed on Sch 3 Attachment A – STEP.

16 **Q. Please describe Sch 5 of the 1604.08 schedules**

17 A. Sch 5 of the 1604.08 schedules provides a complete listing of all of the Company's
18 outstanding debt instruments along with specific information for each bond. The bond
19 specific information is detailed in the columns between and including the columns titled
20 "Term" to "Coupon Rate". The bottom line to this schedule is that the Company has
21 \$83,770,655 of outstanding debt as of 12/31/2015 with an average Funded Effective Rate
22 of 4.79% which is the Component Cost Rate for the Company's Long-term Debt used in

1 the calculation of the company's Overall Rate of Return. All the columns to the right of
2 the "Coupon Rate" in Sch 5 of the 1604.08 schedules are new to this schedule and reflect
3 the calculation of the Principal and Interest payments ("P&I") made on these bonds as
4 follows:

5 (1) The P&I payments made by the Company during the 2015 TY in the amount of
6 \$3,104,660.

7 (2) The pro formed 2015 P&I payments in the amount of \$4,632,538 reflecting the
8 total annual P&I payments that the Company will need to make on the
9 outstanding bond and loan amounts of about \$64,359,813 borrowed to fund the
10 Company's Plant in Service as of 12/31/2015.

11 (3) The pro formed 2016 P&I payments in the amount of \$6,286,441 reflecting the
12 total P&I payments that the Company will need to make on the outstanding bond
13 and loan amounts of \$86,170,032 borrowed to fund the Company's Plant in
14 Service as of 12/31/2016.

15 **Q. How were the annual P&I payments detailed in para. 1 through 3 above calculated?**

16 **A.** The P&I payments made during the 2015 TY reflect actual cash payments on the
17 outstanding bonds in service during 2015. The pro forma 2015 P&I payments of
18 \$4632538 reflect the following pro formas:

19 (1) In 2015 only interest payments were made on the BNY Mellon-2014 A Series
20 Bonds. As of 12/31/2015 \$9,080,781 of the \$19,500,000 in new money
21 associated with this Bond had been invested into new Plant that was used and
22 useful. An additional \$23,350,000 of this Bond was used to refinance an existing

1 bond with a higher coupon rate. The details of this financing can be found in
2 DW14-130. The pro forma interest payment was calculated by multiplying the
3 total interest payment due in 2016 by the ratio of \$32,430,781 (debt associated
4 with plant in service as of 12/31/2015) to \$42,544,503 (The total debt issued) and
5 subtracting the \$1,006,879 interest payment made on this bond in 2015. The 2016
6 Pro forma adjustments to the 2015 pro forma P&I payments were those required
7 to adjust the P&I payments to those required to be made from 2017 through the
8 maturity of the bond.

9 (2) In 2015 only interest payments were made on the BNY Mellon 2014 B Series
10 Bonds. All the proceeds from these Bonds were invested in plant placed in
11 service between 1/1/2013 and 4/1/2014. The 2015 P&I payment pro formas were
12 those required to adjust the P&I payments to those required to be made from 2016
13 through the maturity of the bond.

14 (3) In 2015 only interest payments were made on the 2005 Series A and Series 2005A
15 Bonds that were refinanced by the BNY Mellon-2015 A Series Bonds 2016/2017.
16 The \$97,230 pro forma reduction in the 2015 TY interest payment on this Bond
17 reflects the interest savings and timing differences that resulted from the
18 refinancing of the 2005 series Bonds. There was no principal paid during 2015 on
19 these Bonds. The 2015 pro forma of \$345,754 reflects the principal payments due
20 on the \$13,890,000 of bonds that were refinanced from an interest only bond to a
21 fully amortizing bond in accordance with DW15-196. The 2016 pro forma
22 adjustments to the principal payment of \$174,246 and the interest payment of

1 \$295,610 were those required to adjust the P&I payments on these Bonds to those
2 required to be made from 2017 through the maturity of the bonds.

3 (4) In 2015 only interest payments were made on the 2005B Series Bonds that were
4 refinanced by the BNY Mellon-2015 B Series Bonds 2016/2017. The \$37,296
5 pro forma reduction in the 2015 TY interest payment on this Bond reflects the
6 interest savings snf timing differences that resulted from the refinancing of the
7 2005B series Bonds. There was no principal paid during 2015 on these Bonds.
8 The 2015 principal pro forma of \$95,000 reflects the principal payments due on
9 the \$2,310,000 of bonds that were refinanced from an interest only bond to a fully
10 amortizing bond in accordance with DW15-196. The \$30,411 interest proforma
11 when added to the \$68,964 2015 pro forma interest results in a total pro forma
12 interest payment of \$99,375.

13 (5) 2016 pro formas were made to the 2015 TY Year P&I Payments associated with
14 the SRF loans for Cross Street in Nashua, the Timberline Booster Station in
15 Nashua, the Raw Water Transmission Main in Merrimack and the Amherst Street
16 Water Main replacement project in Nashua. There were no P&I payments on any
17 of these SRF loans in 2015 as the projects did not become used and useful until
18 2016. The pro forma P&I payments on these SRF loans reflect the annual P&I
19 payments that will made from 2017 through the maturity of these bonds.

20 **IV. DISCUSSION OF OTHER OPERATIONAL MATTERS**

21 **Q. Thank you for walking through the schedule details. Are there any operational**
22 **issues you would like to discuss?**

1 A. Yes. The Company continues to work with its customers in regards to sustainable
2 conservation efforts through the use of semi-annual mailings promoting water saving
3 fixtures, good water use habits and proper lawn irrigation practices. The Company is a
4 member of the EPA WaterSense program and uses its website to direct customers to the
5 EPA WaterSense program where there is an extension amount of information regarding
6 water conservation and water saving fixtures.

7 **Q. Is the Company continuing to see a reduction in base residential water use as a**
8 **result of conservation efforts by its customers?**

9 A. Yes. The average single family water usage for the months of December through March,
10 which reflects indoor water usage patterns has shown a drop in average monthly usage
11 between 2012 and 2016.

12 **Q. Was a Cost of Service Study prepared as part of this case?**

13 A. No. The last cost of service study was prepared as part of DW 10-091. Because there
14 has been little change in the mix of customers, assets, and expenses since DW10-091, the
15 Company determined that preparing a Cost of Service Study was not justified.

16 **Q. Please summarize the impact of the Company's rate increase request by Customer**
17 **Class.**

18 A. The Tariff pages and Report of Proposed Changes sheets which detail the impact or the
19 rate increase by customer class are found in Sections 6 and 13 of the filing. The
20 Company proposes to spread the propose rate increase uniformly across all customers
21 classes.

22 **Q. How does the Company plan to notify its customers of the pending rate increase?**

1 **A.** In accordance with Puc 1203.02(c) and (d), the Company will be notifying its customers
2 regarding the rate filing by providing a form of notice. The notice will be sent via a
3 direct mailing to its customers. The direct mailing will also include information
4 regarding the suspension of the Company's rates and the date of the prehearing
5 conference. Additionally, when the Commission issues the order to suspend tariffs and
6 schedule a prehearing conference, the Company will provide notification in area
7 newspaper(s).

8 **Q.** Do you have any other testimony to offer?

9 **A.** No.