

TAB 8

Testimony of Donald L. Ware

Puc 1604.02(a)(3)

STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION

Docket No. DW 22-032

Pennichuck Water Works, Inc.
Rate Proceeding

DIRECT TESTIMONY OF DONALD L. WARE

June 27, 2022

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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 Pennichuck Water
4 Works, Inc. (“PWW” or “Company”). I have worked for PWW since 1995. I am a
5 licensed professional engineer in New Hampshire, Massachusetts, and Maine.

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

7 **A.** I have a bachelor’s 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 master’s degree in civil engineering from the same institution. I have a
10 master’s 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 11 and 12,
6 respectively, of PWW's rate case filing. My testimony will provide insight into each of
7 these schedules. My testimony will interface with Larry Goodhue's in regard to
8 addressing the revenue and operational pro forma that are part of 1604.06 Schedule 1
9 ("FR Sch 1") and the financing necessary to support the Company's Capital
10 Improvements in 1604.08 Schedule 5 ("RoR Sch 5").

11 **A. SUMMARY OF NEED FOR RATE INCREASE**

12
13 **Q. Why is PWW filing rate schedules to increase customer rates?**

14 **A.** Based on the Filing Requirement Schedules and Rate of Return Information, PWW is in
15 an earnings deficiency. The revenues collected in 2021 fell well below the revenue
16 requirements the Company needs to fully fund, the monies needed to: (1) maintain its
17 operations, (2) make its required payments to the City under the CBFRR, and (3) make
18 its debt payments. It is projected that the Company's 2022 Revenues will fall about
19 \$1.05 million short of its 2022 expenses with the cash shortfall being covered by
20 withdrawals from the Company's RSF accounts. As explained in the testimony of Larry
21 Goodhue, that revenue deficiency is at 13.06% using the rate methodology approved in
22 Docket No. DW 19-084. I will also note that in the settlement agreement approved by
23 the Commission in Docket No. DW 19-084, PWW committed to filing general rate cases
24 every three years. See, Order No. 26,383, at 10 and 19.

1 **Q. Please describe the primary drivers of this revenue deficiency.**

2 **A.** The primary drivers of the proposed 13.06% revenue deficiency (\$4,732,302) are:

3 1. The debt service and property taxes associated with the capital expenditures made in
4 2019, 2020 and 2021, which accounts for \$2,572,682 or 6.99% of the requested
5 13.06% increase.

6 2. Compounded annual increases to the Company's operating expenses since its last
7 permanent rate case 2018 Test Year (TY); most specifically:

8 a. Increases in Production expenses driven primarily by increased chemical costs
9 and electric supply rates which account for \$760,303 or about 2.1% of the
10 requested 13.06% increase.

11 b. Increases in staff salary, benefit and payroll tax expenses allocable to PWW since
12 its last permanent rate case filing in DW19-084 which accounts for about
13 \$980,000 translates to about 2.7% of the requested 13.06% rate change.

14 **Q. Please describe what PWW has done to control these drivers of the revenue**
15 **deficiency.**

16 **A.** The Company is focused on controlling expenses in an intelligent fashion. In order to
17 accomplish that control the Company has established the following practices:

18 1. Staffing levels are evaluated as part of the annual budgeting process. The evaluation
19 is completed to ensure that each Department uses the right mix of full time, part time
20 and seasonal employees along with outside consultants, contractors and technology to
21 accomplish the regulatory tasks and "best" utility operating practices that each
22 Department needs to complete each year. The current staffing levels required to meet
23 its customer and regulatory requirements, with the exception of the Distribution

1 Department, are not expected to change in the near future for the Company. The
2 Distribution Department, which was fully staffed (33 union employees) in 2018
3 currently has 30 employees. This Department has experienced a number of
4 retirements over the past several years and has been unable to fill all the retired
5 positions due to the tight labor market, all of which remain as “open requisitions” to
6 fill those necessary positions. The Company is hopeful that it will be able to bring
7 the Distribution Department up to full staffing levels by the end of 2022. The
8 Company had 126 Full Time Equivalent Employees (FTE’s) as of the 12/31/2021.
9 The Company had 124 FTE’s as of 12/31/2018, the TY for DW19-084.

- 10 2. The Company seeks competitive bids for products and services when it is feasible. It
11 seeks bids for inventory, power supply, chemicals, print house services, insurances
12 (health, dental, property and liability) and natural gas, as well as other products and
13 services to attract the lowest possible pricing for its customers.
- 14 3. It seeks competitive bids for its capital expenditures.
- 15 4. It completes annual assessments of market valued wages to ensure that the Company
16 maintains a competitive wage and benefit package, which attracts and retains good
17 employees, to the long-term benefit of running the utility as a service to our
18 customers. These assessments are conducted using data for local, regional and
19 national studies and metrics, both within the water industry and across industries, as it
20 relates to market data for wages, on a position-by-position basis.
- 21 5. The Company continues to make efforts to control Health care premiums by:

- 1 a. Employees being educated on how to use their Health care services efficiently and
2 how to be well (via Company sponsored wellness plans) resulting in lower utilization
3 rates,
- 4 b. A third, less expensive plan option (A narrow network HMO plan) was added to
5 the Company's existing HMO and PPO High deductible plan. These plans are mated
6 with both a Health Savings and Health Reimbursement Accounts. The combination
7 of all of these elements results in an overall plan architecture which comes at a lower
8 overall cost to both the Company and the employees. In particular, as older retiring
9 workers are being replaced with new, younger employees the Company has seen a
10 shift in employees selecting the HMO plan toward the selection of the PPO and
11 Narrow network plans. In 2018 about 83% of the Company's employees were
12 enrolled in the HMO plan while in 2022 only 73% are enrolled in the HMO plan.
- 13 c. Increased level of employee contribution toward premium costs for their health
14 plan selection from 19% to 20% since the last rate case.
- 15 6. Use of seasonal employees to accomplish seasonal work, such as: station yard
16 maintenance, hydrant painting, watershed inspections, water quality monitoring,
17 water main inspections and other work that does not result in a year-round workload
18 and does not require the skills of a certified operator.
- 19 7. Use of outside contractors to supplement the Company's staff, allowing the Company
20 to keep up with the gate and hydrant maintenance and service replacement work
21 created by the expanded paving programs being completed by the communities the
22 Company serves. Outside contractors can, and are, hired as needed to supplement
23 full time staff, while limiting overtime created by the seasonality of this work.

1 **B. DISCUSSION OF EFFECT OF QCPAC ON PROPOSED RATE INCREASE**

2
3 **Q. Will this rate case be addressing the Company's Capital Improvements?**

4 **A.** No. The Company's Capital Improvements are addressed through its' annual Qualified
5 Capital Project Adjustment Charge ("QCPAC") filings. Pennichuck is currently seeking
6 a QCPAC for the Capital Improvements that were completed, used and useful during the
7 2021 TY via Docket No. DW 22-006.

8 **Q. Please describe how the QCPAC sought in DW 22-006 will interface with the**
9 **revenue requirement sought in DW 22-032.**

10 **A.** The QCPAC being sought for the Company's 2021 capital improvements is a surcharge
11 on the permanent rates granted in DW 19-084. The QCPAC will result in additional
12 revenues that will cover the 1.1 times the principal and interest associated with the Bonds
13 issued on April 26, 2022 as well as the property taxes associated with the capital
14 improvements that were placed into service during 2021 by the Company. The QCPAC
15 will be recoupable back to the date of the issuance of the Bonds (April 26, 2022). The
16 QCPAC revenues associated with the 2021 improvements, along with the QCPAC
17 revenues associated with the 2019 and 2020 capital improvements (granted in DW 20-
18 020 and DW21-23) are included in the permanent rate increase being sought in this
19 docket and are part of the 13.06% revenue deficiency. The QCPAC associated with the
20 Company's 2022 Capital improvements, to be filed in February of 2023, will be treated
21 as a surcharge on the revenue requirement granted in this docket.

22 **III. SUMMARY OF RATE SCHEDULES PER ORDER NO. 26,383**

23 **Q. Do you have any summary comments regarding the filing schedules?**

- 1 **A.** Yes. The format of the filed schedules is consistent with the format approved in Order
2 No. 26,383 for Docket No. DW 19-084. The order approved the modified ratemaking
3 structure described in the settlement agreement in that proceeding. The schedules filed
4 reflect the building of a revenue requirement consisting of the following expenses
5 components:
- 6 1. The City Bond Fixed Payment Expense, as approved in Docket No. DW 11-026,
7 which is the basis of the City Bond Fixed Revenue Requirement (CBFRR).
 - 8 2. The Company's Operating Expenses which consist of:
 - 9 a. The Company's Material Operating Expenses (MOE's). The MOE's consist of the
10 Company's operating expenses, not including the Company's non-material operating
11 expenses. The MOE's include the Company's amortization expenses.
 - 12 b. The Company's Non-Material Operating Expenses (NOE's), which are the basis
13 of the Company's Non-Material Operating Revenue Requirement (NOERR).
 - 14 3. A Material Operating Expense Factor (MOEF) which is applied against the
15 Company's MOE's, exclusive of its amortization expenses. The MOEF is applied to
16 the Company's MOE's, less amortization expenses and then amortization expenses
17 are added in which are the basis of the Company's Material Operating Expense
18 Revenue Requirement (MOERR).
 - 19 3. The Company's Debt Service expenses are the Company's annual principal and
20 interest payments on its outstanding debt. These expenses are the basis of 1.0 Debt
21 Service Revenue Requirement (DSRR)
 - 22 4. A Debt Service coverage factor of 0.1 which provides for the coverage of the
23 Company's Debt Service payments in accordance with its bond coverage

1 requirements. This expense is the basis of the 0.1 Debt Service Revenue
2 Requirement (0.1 DSRR).

3 The sum of the expenses noted above provide the basis of the Company's Total Revenue
4 Requirement. All of the noted expenses, where appropriate, were adjusted:

- 5 1. For known and measurable changes to these expenses that are anticipated to occur
6 within 12 months of the end of 2021 Test year.
- 7 2. The difference in expenses associated with variances in volumetric expenses
8 (Chemical, electric and purchased water expenses) between the 2021 test year
9 pumpage and the five-year average for volumetric sales and volumetric related
10 expenses.

11 **IV. DISCUSSION OF SPECIFIC RATE CASE SCHEDULES AND INFORMATION**

12 **Q. Please discuss the revenue components detailed on the Filing Requirements ("FR")**
13 **Schedule A of the 1604.06 schedules as presented in the filing.**

14 **A.** FR Schedule A is used to determine the revenue requirement of the Company. As
15 described above the Company's Revenue requirement consists of four components, the
16 CBFRR, the OERR, the DSRR and the 0.1 DSRR. FR Schedule A details each of these
17 revenue requirements for the Test Year ending 12/31/2021. FR Schedule A details a set
18 of pro forma adjustments to the 12/31/2021 year ending revenue requirements to account
19 for known and measurable changes to those revenue requirements, which will occur
20 within 12 months of the end of the 2021 TY. A second set of pro forma adjustments to:

- 21 1. the TY revenues are made to reflect the revenues that would be derived by an
22 average of the last five years of volumetric sales

- 1 2. the TY operating expenses to reflect changes to variable expenses associated with
2 producing/purchasing the volumes of water produced/purchase based on an
3 average of the last five years of production/purchased water volumes.

4 **Q. Please discuss the pro forma detailed on FR Schedule A to the TY actual revenue**
5 **requirement and as detailed in the column titled “PRO FORMA Adjustments to**
6 **2021 Test Year”.**

7 **A.** The pro forma adjustments to the TY revenue requirements on FR Schedule A are as
8 follows:

- 9 1. The TY operating expenses (OE’s) were increased by \$108,268 from \$23,501,111 to
10 \$23,609,378 reflecting pro forma adjustments to TY OEs as detailed on FR Sch 1 of
11 the 1604.06 schedules.
- 12 2. The TY NOE’s were increased by \$53,918 from \$492,716 to \$546,634 reflecting pro
13 forma adjustments to TY NOE’s as detailed on FR Sch 1 of the 1604.06 schedules.
- 14 3. The TY Amortization expenses were increased by \$1,134 from \$150,002 to \$151,136
15 reflecting pro forma adjustments to TY amortization expenses as detailed on FR Sch
16 1 of the 1604.06 schedules.
- 17 4. The TY MOEF was decreased from 1.095 to 1.090 reflecting the Company’s
18 experience with: (1) the MOEF since DW 19-084, (2) the timing and implementation
19 of temporary rates in DW 19-084 versus the timing and implementation of temporary
20 rates sought in this Docket and (3) the anticipated changes to operating expenses over
21 the three years following the test year.
- 22 5. The Debt Service Expense was increased by \$655,997 from \$6,777,778 (which
23 reflects the actual debt service expenses incurred during 2021 TY) to \$7,433,774

1 which reflects the total principal and interest expenses that the Company will be
2 paying on all debt issued and in repayment mode, before the end of 2022, for assets
3 that were used and useful prior to the end of the 2021 TY.

4 **Q. Please discuss the Pro Forma detailed on FR Schedule A to the 12/31/2021 Pro**
5 **Forma TY revenue requirement based on the Five-Year Average.**

6 **A.** The Pro Forma adjustments made to the Pro Forma 12 months ending 12/31/2021
7 revenue requirements are as follows:

- 8 1. OEs were decreased by \$30,382 to reflect the combination of:
 - 9 a. the additional variable expenses associated with producing the Five-Year Average
10 of 5,773,457 hundred cubic feet (CCF) versus the 5,686,408 CCF water produced
11 during the TY (Produced volume is the total of WTP and CWS pumpage).
 - 12 b. Decreased expenses associated with 2021's purchased water amount of 261,789
13 CCF compared against the five-year average of purchased water of 235,568 CCF.

14 The calculation of the Five-Year Average is detailed on FR Schedule 1C of the
15 1604.06 schedules.

- 16 2. Reflecting a pro forma 3-year credit to the Total Revenue requirement in the amount
17 of \$39,166 per year. The pro forma 3-year credit is based the projected 2022 Year
18 ending combined RSF balance of \$4,127,499 resulting an overfilling of the combines
19 RSF's of \$207,499 per FR Sch 1 Attach A Pg 3 of the 1604.06 schedules.
- 20 3. The portion of the TY revenues not subject to a rate increase associated with the fixed
21 fees for special contracts that are under consideration at the NHPUC. The pro forma
22 accounts for the requested changes to these special fixed fee revenues during the TY
23 (the fixed contract revenues associated with the Anheuser-Busch, LLC (A-B), PEU,

1 and Town of Hudson (Hudson) special contracts). The \$479,244 pro forma reflects
2 the requested increase in annual fixed fees for these contracts from \$606,442 to
3 \$1,085,686.

4 4. The Total current revenues were increased by \$854,172 to reflect the increased
5 volumetric sales for the Five-Year Average in addition to changes to the fixed and
6 volumetric rates associated with the A-B, PEU and Hudson special contracts per FR
7 Schedule 1C.

8 **Q. Please discuss the pro forma to the Total Revenues detailed in FR Schedule 1, the**
9 **Operating Income Statement.**

10 **A.** The Company's FR Schedule 1 begins with the test year ending 12/31/2021 Revenues.
11 These revenues are divided into Water Sales, less QCPAC revenues, QCPAC Revenues,
12 Water Sales for Resale, and Other Operating Revenues. The TY ending Water Sales, less
13 QCPAC Revenues were pro formed in a series of steps to the Revenues Based on Five
14 Year Average Water Sales as follows:

- 15 1. TY Water Sales were increased by 854,172 reflecting:
- 16 a. An adjustment to revenues reflecting to 5-Year Ave volumetric sales per FR
17 Schedule 1C
 - 18 b. An adjustment to revenues for the projected change in sales to PEU and Hudson
19 due to closure of Hudson Dame/Ducharme wells per FR Schedule 1C.
 - 20 c. An adjustment for changes in rates and fixed fees associated with A-B, PEU and
21 Hudson special contracts per FR Schedule 1C.

22 2. The TY QCPAC Revenues were increased by \$64,104 reflecting the collection of a
23 full year of QCPAC Revenues based on the QCPAC's granted in DW 20-020 and DW

1 21-023 as well as 8.13 months of that being sought in DW 22-006 per FR Sch 1 Attach A
2 Pg 1.

3 The TY Other Operating Revenues were increased by \$841 to reflect projected revenue
4 increases associated with the margins on increased wages associated with jobbing
5 activities per FR Schedule 1, Attach A, Pg 1.

6 3. The TY Other Operating Revenues we increased by \$139,906 reflecting:

7 a. Increase associated with 2022 wage increases associated with 2021 jobbing
8 revenues per FR Schedule 1, Attach A, Pg 1.

9 b. Change to Miscellaneous Fee revenues associated with the increases in these fees
10 being sought as part of this rate filing per FR Schedule 1, Attach A, Pg 1. Please
11 also see Attachment C (Misc. Fees tariff revision) of the prefiled testimony the
12 Company provided in DW 22-002 in support of the change in these fees. Please
13 note, that in accordance with DOE and OCA staff during the prehearing
14 conference associated with DW 22-002, that the Company withdrew that petition
15 in favor of seeking changes to its Miscellaneous Fee tariff as part of this rate
16 filing. Additionally, as part of the discussions at that meeting the Company
17 agreed it would not seek a change to the fees associated with turn on and offs
18 associated with disconnection activities based on the fact that an increase in these
19 fees, while merited, would create additional cost to customers who were already
20 struggling to pay their past and current water bills. A calculation of the increase
21 in miscellaneous revenues associated with the requested change in fees can be
22 found in FR Misc Fee Impact.

23 c. Solar Lease Revenues per FR Schedule 1, Attachment A, Page 1.

1 **Q. Please discuss the pro forma to the Operating Expenses detailed in FR Schedule 1,**
2 **the Operating Income Statement.**

3 **A.** PWW's FR Schedule 1 begins with the TY ending 12/31/2021. The Pro forma
4 adjustments reflect known and measurable increases/decreases to the 12/31 TY Operating
5 Expenses that occurred during the TY or will occur within 12 months of the end of 2021
6 TY resulting in the PRO FORMA 12 Months ending 12/31/2021 Operating Expenses.
7 The next PRO FORMA set of adjustments to the Operating Expenses on FR Schedule 1
8 are associated with the change in pumpage and purchased water expenses associated with
9 using the Five-Year average production and purchased water volumes versus the 2021
10 TY production and purchased water volumes. Each of the PRO FORMA adjustments in
11 FR Schedule 1 are explained on the Schedule 1 support schedules.

12 **Q. Please discuss each of the FR Schedule 1 Support Schedules between the Twelve**
13 **Months 12/31/2021 and the Pro Forma Test Year ending 12/31/2021 in regard to**
14 **Operating Expenses.**

15 **A. FR Sch. 1 Attachment B – Production Account.** Pro forma Production expenses are
16 expected to be \$790,684 greater than the actual 2021 TY production expenses or about a
17 14.0% increase. This increase is associated with increases in wages, purchased water
18 expenses, electrical expenses and chemical expenses. Of these increased expenses the
19 largest increases are associated with:

20 (1) Increased chemical costs. The price for water treatment chemicals in 2022 is on
21 average 57.3% higher than the pricing for those chemicals in 2021 resulting in a pro
22 forma to 2021 chemical expenses of \$455,887.

1 (2) Increase electrical supply charges from \$0.0695 to \$0.09100 or \$0.09020 (GV and G
2 accounts) per Kilowatt Hour resulting in a pro forma increase of \$235,159.

3 **FR Sch. 1 Attachment C – Distribution Account.** Pro forma Distribution expenses are
4 expected to be \$63,580 greater than the 2021 TY Distribution expenses or about a 1.9%
5 increase. This increase is associated with increases in nonunion and union labor wage
6 rates.

7 **FR Sch. 1 Attachment D – Engineering Account.** Pro forma Engineering expenses are
8 expected to be \$17,374 less than the 2021 TY Engineering expenses or about a 1.8%
9 decrease. The decrease in engineering expense is the result of a recent retirement offset
10 by increased wage rates.

11 **FR Sch. 1 Attachment E – Information Systems Account.** Pro forma Information
12 Systems expenses are expected to be \$142,042 greater than the 2021 TY Information
13 Systems expenses or about a 11.9% increase. This increase is associated with increases
14 in wage rates and the addition of a new employee. The new employee was added to
15 support and write field applications associated with the Company's GIS and Asset
16 management programs as well as help writing reports necessary to the Company to meet
17 its regulatory compliance filings.

18 **FR Sch. 1 Attachment F - Customer Accounts and Collection.** Pro forma Customer
19 Accounts and Collection expenses are expected to be about \$25,174 greater than the 2021
20 TY expenses or about a 1.49% increase. The increase in expenses is the result of
21 increased postage costs as well as contractual increases associated with the Company
22 print vendor.

1 **FR Sch 1 Attachment G, Pg 1 through 3 - Administrative and General Material**

2 **Operating Account.** Pro forma Administrative and General expenses are expected to be
3 \$404,521 greater than the actual 2021 TY expenses or about an 6.2% increase. The
4 primary causes of this increase were:

5 (a) Increase in payroll of \$150,255 associated with changes in staffing levels and
6 wage increases. The average non-union wage increase awarded in 2022 was
7 slightly less than 3%.

8 (b) A projected increase in NHPUC regulatory assessment of \$50,140.

9 (c) An actual decrease in the Company's Pension expense of \$447,710.

10 (d) A projected increase in the Company's Insurance expense of \$151,379.

11 (e) A projected increase in Health Insurance expense of \$257,368, which is inclusive
12 of a 9.9% increase in health care premiums between 2021 and 2022, offset by an
13 increase in employee contributions to the premiums.

14 (f) A projected increase in Dental Insurance expense of \$17,208.

15 Per the notes found on FR Sch 1 Attachment G, Pg 1 the change in expenses noted in
16 para. (b), (d), (e) and (f) are estimated and the Company proposes to adjust the estimated
17 expenses to actual expenses incurred during 2022 in the final calculation of the pro forma
18 expense adjustments associated with the final determination of the Company's Revenue
19 requirement.

20 **FR Sch. 1 Attachment H – Intercompany Management Fee.** The increase in
21 intercompany management fee allocated out to Pennichuck Corporations subsidiaries of
22 Pennichuck Water Works General and Administrative expenses of \$139,504. This
23 increase in the Company's allocation to Pennichuck Corporations other subsidiaries is the

1 result of allocating 27.68% of the Company's projects increase in general and
2 administrative expenses to the other subsidiaries of Pennichuck Corporation (Pennichuck
3 East Utility, Inc., Pittsfield Aqueduct Company and Pennichuck Water Service
4 Company) in accordance with the 2006 Cost Allocation Agreement between Pennichuck
5 Corporation's subsidiaries previously approved by the Commission.

6 **FR Sch. 1 Attachment I** – This schedule projects a pro forma increase in Property Taxes
7 of \$10,673 based on plant additions, plant deletions and adjustments based on changes in
8 community tax rates and valuations between the June 2021 and December 2021 Tax bills.
9 As in past rate cases the Company expects that the property tax expense allowed in this
10 case will be trued up to the actual property taxes incurred by the Company in 2022.

11 **FR Sch. 1 Attachment J** – This schedule projects a pro forma increase of \$1,134 to
12 Amortization Expenses based on the addition of new deferred assets during the TY and
13 within 12 months of the TY less any amortization expense on any deferred asset that was
14 fully amortized during the TY or will be within 12 months of the TY.

15 **FR Sch. 1 Attachment K** – This schedule projects a pro forma decrease in State and
16 Federal Income taxes from the book basis included in the Company's income statement
17 to the actual cash taxes paid by the Company in 2021. Book basis Income Taxes (State
18 and Federal) for the Company's year ending 12/31/2021 were \$1,286,410. The Company
19 does not pay or file State and Federal income taxes directly as its' income is consolidated
20 with all of Pennichuck Corporation's subsidiary's' and the Corporation filed a
21 Consolidated Tax Return, and pays any Federal and State Income taxes due, based upon
22 those filings. The income taxes accrued as a current or deferred provision are shared by
23 each of the Subsidiaries in accordance with their proportionate share of taxable income,

1 and the components of the current and deferred tax positions. Likewise, the portion of
2 income taxes paid, in any given year, are shared by each of the Subsidiaries in
3 accordance with the Corporate management fee allocation. In 2021 the Corporation paid
4 a total of \$93,482 in Taxes which was associated with the NH Business Enterprise Tax.
5 The Company's share of these Consolidated NH Business Enterprise Taxes paid was
6 \$59,828.

7 **FR Sch. 1 Attachment L** – This schedule develops a pro forma for the 2021 TY
8 nonmaterial operating expenses. The basis and need for this proforma is that activities,
9 such as employee activities, employee training, educational seminars, meetings and
10 conventions, is that these activities during the TY were well below normal annual
11 expenses due to restrictions placed on these activities during 2020 and 2021 by COVID
12 19. The pro forma sets the level of these expenses to the average expenses in these areas
13 of nonmaterial operating expenses at the average expense of the 3 years (2017 to 2019)
14 that proceeded the onset of the pandemic.

15 **FR Sch. 1 Attachment 1C** – This schedule is used to develop the proforma from 2021
16 sales and production volumes to those that would be generated if the 5-year average of
17 sales and production volumes occurred. This schedule also creates pro forma in relation
18 to change in sales amounts and pricing for proposed A-B and Hudson special contracts
19 under consideration by the Commission in DW 21-115 and DW 22-029 as well as the
20 special contract with Pennichuck East Utility that is pending filing with the Commission
21 as of this testimony. The schedule also adjusts 2021 sales to MVD based on the late
22 October to December 2021 sales of about 1.0 Million Gallons per Day being a non-
23 reoccurring event due to the PFAS contamination of their wells. The MVD adjustment

1 reduces the Company's sales to MVD from 50,640 CCF (amount sold to MVD during the
2 TY) to 13,879 CCF which was the average annual sales to MVD between 2017 and 2020.

3 **Q. Can you please compare the total operating expenses for the pro forma Test Year**
4 **Ending 12/31/21 against the YE 2019 total operating expenses.**

5 **A.** The pro forma TY 2021 operating expenses, exclusive of income taxes (which is the
6 equivalent to the projected YE 2022 operating expenses) were \$3,642,608 greater than
7 the year ending 12/31/2019 operating expenses total, of which \$1,051,315 is associated
8 with variable costs of production (Electricity, chemicals, sludge disposal) and purchased
9 water resulting in a difference in fixed costs of \$2,591,294 between the noted YE's or an
10 increase of about 15.8% over three years (YE 2019 through pro forma 2021 which equates
11 to projected 2022 operating expenses) resulting in an average annual increase in fixed
12 total operating expenses of about 5.0%.

13 **Q. Please explain the Pro Forma adjustments based on Five Year Average made in FR**
14 **Schedule 1 which were applied to the PRO FORMA 12 Months 12/31/2021.**

15 **A.** Just as revenue levels were normalized in FR Schedule 1 to reflect the Five-Year average
16 of volumetric sales, all operating expenses that are impacted by the change in volumetric
17 sales have been normalized to reflect the expenses associated with producing or
18 purchasing the Five-Year Average volumetric sales volumes versus the TY
19 2021 volumetric sales volumes.

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

21 **A.** The primary production expenses impacted by a change in volumetric sales are the
22 electric, chemical and sludge disposal expenses required to produce the water for its

1 customers as well as the electric expenses required to deliver the water to its customers.
2 Purchased water expenses are also directly impacted by a change in volumetric sales.

3 **Q. What is the total impact on the operating expenses detailed above as a result of**
4 **using the Five-Year Average volumetric sales instead of the 2021 TY volumetric**
5 **sales?**

6 **A.** The impact on operating expenses, per FR Sch 1 Attachment B, was decrease expenses of
7 \$30,908 which are the result of the following pro forma adjustments:

- 8 (1) A decrease in purchased water expenses associated with a 10.78% decrease in
9 purchased water expense of the Five-Year Average purchased water versus of the
10 2021 TY purchased water resulting in a decreased expense in the amount of
11 \$62,050.
- 12 (2) An increase in electric expenses associated with a 1.58% increase in plant
13 production and a 0.66% decrease in electric pumping expenses (comparing the
14 Five-Year average production versus the 2021 TY production) resulting in a
15 projected increase in electrical expenses in the amount of \$10,831.
- 16 (3) An increase in WTP and CWS chemical expenses associated with a 1.58%
17 increase in plant production and a 0.66% decrease in CWS production (comparing
18 the Five-Year average production versus the 2021 TY production) resulting in a
19 projected increase in Chemical expenses in the amount of \$20,837.

20 **Q. Please describe Sch 5 of the 1604.08 Rate of Return (RoR”) Schedules**

21 **A.** RoR Sch 5 of the 1604.08 schedules provides a complete listing of all of the Company’s
22 outstanding debt instruments along with specific information for each bond or debt
23 instrument. The bond and debt instrument specific information is detailed in the columns

1 between and including the columns titled “Term” to “Coupon Rate”. The bottom line to
2 this schedule is that the Company has \$121,310,093 of outstanding debt inclusive of the
3 issuance of the BNY Mellon 2022 Series A and B in April of 2022. The average Funded
4 Effective Rate for all of the Company’s outstanding debt is 3.00%, which is the
5 Component Cost Rate for the Company’s Long-term Debt used in the calculation of the
6 company’s Overall Rate of Return. The columns to the right of the “Coupon Rate” in
7 RoR Schedule 5 of the 1604.08 schedules reflect the calculation of the Principal and
8 Interest payments (“P&I”) made on these bonds and debt instruments, as follows:

9 (1) The P&I payments made by the Company during the 2021 TY in the amount of
10 \$6,777,778.

11 (2) The pro forma 2021 P&I payments in the amount of \$7,433,774 reflecting the
12 total annual P&I payments that the Company will need to make on the
13 outstanding bond and loan amounts of \$121,310,083, which was borrowed to fund
14 the Company’s Plant in Service as of 12/31/2021.

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 2021 TY reflect actual cash payments on the
17 outstanding bonds and other debt instruments in service during 2021. The pro forma
18 2021 P&I payments of \$655,997 reflect the following pro forma:

19 1. In 2021 the Company made no principal payments and a partial year interest
20 payment of \$106,450 on the BNY Mellon-2021 A Series Bonds. No principal
21 payments were made on these series bonds during 2021, as the first semi-annual
22 payment on these annually issued bonds is an interest only payment in October,
23 with the first P&I payment occurring in the following April. In 2022 the full debt

1 service on these series bonds will consist of \$80,000 in principal payments and
2 \$211,900 in interest payments resulting in total debt service payments of
3 \$291,900 on these Series bonds in 2022. The resultant pro forma are \$80,000 in
4 principal repayment and \$105,450 in interest payment.

5 2. In 2021 the Company made no principal payments and a partial year interest
6 payment of \$656 on the BNY Mellon-2021 B Series Bonds. No principal
7 payments were made on these series bonds during 2021, as the first semi-annual
8 payment on these annually issued bonds is an interest only payment in October,
9 with the first P&I payment occurring in the following April. In 2022 the full debt
10 service on these series bonds will consist of \$40,000 in principal payments and
11 \$1,103 in interest payments resulting in total debt service payments of \$41,103 on
12 these series bonds. The resultant pro forma are \$40,000 in principal repayment
13 and \$447 in interest payment.

14 3. In 2021 no principal or interest payments were made on the BNY Mellon 2022 A.
15 All the proceeds from these Bonds were invested in plant placed in service
16 between 1/1/2021 and 12/31/2021. The 2021 P&I payment pro forma of
17 \$397,553 reflects the annual principal and interest payment that must be paid each
18 year on this bond series, beginning in 2022 through the maturity on this serialized
19 bond series in 2052.

20 4. In 2021 no principal or interest payments were made on the BNY Mellon 2022 B.
21 All the proceeds from these bonds were invested in plant placed in service
22 between 1/1/2021 and 12/31/2021. The 2021 P&I payment pro forma of \$32,566
23 reflects the annual principal and interest payment that must be paid each year on

1 this bond series, beginning in 2022 through the maturity on this serialized bond
2 series in 2025.

3 **V. COST OF SERVICE STUDY**

4 **Q. Did the Company have a Cost of Service Study (COSS) completed as part of this**
5 **rate filing?**

6 **A.** No. A COSS was completed in DW 19-084. The final order in DW 19-084 resulted in
7 the recommended cost recovery from each Customer Class that resulted from that COSS
8 be phased in over a period of 6 years and that no COSS be completed as part of the next
9 (this current) rate filing. The phase in required a 3% increase to the FP-Hydrants
10 (Municipal fire inch-ft and hydrant charges) each year in November in conjunction with
11 an offsetting decrease (about 0.49%) to All other G-M charges (primarily volumetric
12 charges) as well as monthly fixed charges based on meter size with the exception of the
13 5/8" fixed meter charge which is not adjusted. Additionally, private fire protection
14 charges are not adjusted each November but remain at the levels set in DW 19-084 and
15 those being sought in this rate filing. A COSS will be completed as part of the next
16 projected rate filing in 2025 based on a 2024 TY.

17 **Please discuss the 1604.08 Schedule 9 (RoR Sch 9).**

18 **A.** The RoR Schedule 9 Bingo Perm details the rate increase, both in percentage and total
19 dollars for each customer class. The rate increases, by customer class detailed in this
20 schedule are based on the following facts:

21 (1) The total percentage revenue increase being sought is 13.06%. Pennichuck has
22 special contracts with A-B, PEU, Hudson, and the Town of Milford with contract
23 charges that are not subject to rate increases. To create the desired revenues an

1 increase of 13.49% must be applied against all customer class rates that are subject
2 to increases.

3 (2) As discussed, a second adjustment was made to the revenues being sought from each
4 customer class as follows:

5 a. G-M Fixed Charges – 5/8”, no adjustment. Increase set at 13.46%.

6 b. G-M Fixed Charges – All other meter sizes adjusted down from 13.46% to
7 12.97% as an offset to the increased revenues generated from the 3% increase to FP –
8 Hydrants customer class.

9 c. G-M Volumetric Charges – adjusted down from 13.46% to 12.97% as an offset to
10 the increased revenues generated from a 3% increase to FP – Hydrants customer
11 class.

12 d. Private FP - no adjustment. Increase set at 13.46%.

13 e. FP – Hydrants (Municipal Fire inch-ft and Hydrant charges) - Adjusted to
14 reflect the 3% annual adjustment to FP-Hydrants, as stipulated in the DW19-084 rate
15 order, applied to the overall requested rate increase of 13.46% which results in a
16 16.46% increase to this customer class.

17 f. All Special Contract Volumetric and Meter Charges – adjusted down from
18 13.46% to 12.97% as an offset to the increased revenues generated from a 3%
19 increase to FP – Hydrants customer class.

20 **Q. Is the proposed 3% increase to FP – Hydrants and corresponding decreases to other**
21 **customer class being sought as part of this rate case in lieu of the November 2022**
22 **shift in rates stipulated in DW 19-084?**

1 A. Yes. The Company proposes that the next annual adjustment to rates, in accordance with
2 the order issued in DW 19-084, (beyond that sought in the permanent rates for this case)
3 would occur in November 2023 and would be applied against the permanent rates granted
4 in this rate filing.

5 **VI. RATE CHANGES TO RATE CLASSES**

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

8 A. The Tariff pages and Report of Proposed Changes sheets which detail the impact or the
9 rate increase by customer class are found on RoR Schedule 9 in Sections 6 and 12 of the
10 filing:

11 G-M Fixed Charge Customers – 5/8” meters – 13.46%

12 G-M Fixed Charges – All other meter sizes Customers – 12.97%

13 G-M Volumetric Charge Customers – 12.97%

14 Private Fire Customers – 13.46%

15 Municipal Fire Customers – 16.46%

16 Special Contract Customers – Contract Charges – 0.0%

17 Special Contract Customers – Volumetric and Meter Charges – 12.97%

18 **VII. DISCUSSION OF RATE STABILIZATION MECHANISMS**

19 **Q. Please provide an overview and status update of PWW's Rate Stabilization Funds**
20 **(RSF).**

21 A. Please See FR Schedule 1, Attach A, Page 3 for the status of each RSF fund at the end of
22 the 2021 TY as well as a projection of the status of the RSF funds at the end of 2022. Per
23 the referenced Schedule the MOERR and 1.0 DSRR RSF's were over funded and the

1 CBFRR RSF was underfunded as of the end of 2021. The combined balance of the three
2 RSF Balances as of 12/31/2021, when compared against the established target total of the
3 three RSF funds was an overfunding. The 12/31/2021 fund balances compared against
4 the established target values of each of the RSF were as follows:

	<u>12/31/2021 Balance</u>	<u>RSF Target Balance</u>
5 CBFRR RSF	\$587,411	\$680,000
6 MOERR RSF	\$3,195,549	\$2,850,000
7 1.0 DSRR RSF	\$1,380,292	\$390,000
8 Combined RSF	\$5,163,252	\$3,920,000

9 The year ending 12/31/2021 over funding of these RSF's was created by the
10 implementation of the MOEF in DW 19-084. The MOEF generated revenues in excess
11 of expenses for the pro forma test year. During the pendency of the current case
12 of expenses for the pro forma test year. During the pendency of the current case
13 (expected to be completed in Spring of 2023) the Company projects that the over funding
14 of the RSF balances will be significantly reduced. The projected 12/31/2022 RSF
15 Balances in comparison to the RSF Target Balanced are as follows:

	<u>Projected 12/31/2022 Balance</u>	<u>RSF Target Balance</u>
16 CBFRR RSF	\$661,951	\$680,000
17 MOERR RSF	\$1,795,761	\$2,850,000
18 1.0 DSRR RSF	\$1,669,788	\$390,000
19 Combined RSF	\$4,127,499	\$3,920,000

20 **Q. What is the basis of the projected 12/31/2022 RSF Balances?**

21 **A.** The 2022 expenses used in the projection are found on FR Schedule 1, Attach A, Pg 3
22 and are based on Projected Total 2022 Operating Expenses less Nonmaterial operating
23

1 expenses based on Five Year Average Proforma Expenses less Non-Material Operating
2 expense as detailed in FR Sch 1.

3 The projected 2022 revenues are based on the 2022 Water Sales, less QCPAC Revenues
4 per pro forma found on FR Sch 1, Five Year Average added to Projected 2022 QCPAC
5 Revenues from DW20-021, DW20-023 and DW22-006 per pro forma on 1604.06 Sch 1,
6 Attach A, Pg 1.

7 **Q. What does the Company propose to do with the projected YE 2022 \$200,656 excess**
8 **RSF Funds?**

9 **A.** The Company has included a deferred credit to of \$69,166 to its requested revenue
10 requirement (See FR Sch A, Cell H25) which returns the overfunded RSF balance over
11 three years in accordance with the rate setting mechanism established in DW 16-806.

12 **Q. Is the Company proposing the deferred credit to its revenue requirement regardless**
13 **of what happens to its expenses and revenues in 2022?**

14 **A.** No. As with other aspects of this rate filing (property taxes, certain projected
15 administrative expenses) the Company expects to work with the Department of Energy
16 Staff to determine the actual 2022 Revenues and Expenses and their allocation to the RSF
17 accounts upon the close of 2022 prior to the final rate case hearing to establish the
18 appropriate deferred credit or debit to the Company's revenue requirement.

19 **VIII. MATERIAL OPERATING EXPENSE FACTOR (MOEF)**

20 **Q. The Company was granted a 9.5% MOEF in DW19-084. Does the Company believe**
21 **that the MOEF worked the way it expected?**

22 **A.** Yes. Without the 9.5% MOEF the Company would have collected about \$1.3

1 million less cash in 2020 (based on 8 months of permanent rates) and about \$2.0 million
2 less in cash in 2021 and about an additional \$2.0 million less in cash in 2022. Without
3 the cash generated by the MOEF The Company's combined 12/31/2021 RSF level would
4 have been about \$1.8 million resulting in the combined RSF funds being about \$2.1
5 million below their YE combined target level. Without the MOEF cash being collected
6 in 2022 the combined 2022 YE RSF levels would have been approximately a negative
7 0.2 million, or over \$4.0 million below the target RSF combined balance of \$3.92 million
8 which would have required a 3-year deferred debit of about \$1.4 million per year on top
9 of the requested rates to restore the RSF funds to their combined target levels.

10 **Q. Were there other benefits gained from the MOEF?**

11 **A.** Yes. Because the MOEF resulting in the combined RSF balances at the end of 2021
12 being over funded the Company did not have to use 0.1 DSRR Cash to refill the RSF's.
13 As a result, the Company was able to pay for over \$700,000 of shorter-lived capital
14 assets, such as trucks and computer equipment, with cash from the 0.1 DSRR account
15 rather than sell bonds to pay for these assets over a period of 30 years.

16 **Q. What level MOEF is the Company seeking as part of this rate case filing?**

17 **A.** The Company is seeking a 9.0% MOEF as part of this filing. Based on the calculations
18 detailed in DLW Exhibit 1 (attached to this testimony) the 9% MOEF is designed to
19 offset increases in operating expenses of 4.5% per year over the three years between rate
20 cases and will result in a projected/estimated combined RSF balance of \$3,892,925 at the
21 end of July 2025, which is the projected time frame when the next set of permanent rates
22 would take effect based on a 2024 TY and on a 1/1/2023 RSF starting balance of
23 \$3,920,000. The 1/1/2023 RSF balance is equal to the target combined RSF balance

1 based on the fact that the current rate case will reset the RSF Balance to its target level
2 over three years via either a deferred credit or debit to revenue requirement being sought
3 in this rate filing.

4 **Q. What is the basis for using 4.5% as the projected increase in Material Operating**
5 **Expenses?**

6 **A.** Per DLW Exhibit 1 the increase in Material operating expenses over the past 3 years
7 between rate filings (12/31/2018 to 12/31/2021) was 16.11% or 5.11% per year. Based
8 on a review of the primary expenses associated with this increase (power, chemicals,
9 sludge disposal, property taxes, staffing levels, wages and benefits) the Company decided
10 to model the rate increase based on a 4.5% increase in these operating expenses, as
11 opposed to 5.11% for the next three years based on the following factors:

- 12 1. A portion of the increased MOE's, property taxes, are recovered annually via the
13 QCPAC.
- 14 2. Power prices are locked in until the end of 2023 and not subject to increase.
- 15 3. The Company's Union contract has locked in union wages at 3.0 and 3.3% for
16 2023 and 2024 in conjunction with increased levels of employee contributions to
17 Health care from 19% to 20%. Nonunion wages typically follow at similar
18 percentages.
- 19 4. Staffing levels are expected to be stable. With a number of key employees
20 retiring in the next three years staff compensation may be tempered by the effect
21 of newer employees with lower wages will be replacing more expensive older
22 employees.

1 5. If MOE's were to increase at the past three years trend of 5.11% instead of 4.5%
2 the projected level of the Combined RSF's would drop from \$3,892,925 to
3 \$3,192,490 so the Company would not be completely drained of cash as it was at
4 the beginning of its last two rate filings.

5 DLW Exhibit 1 details the calculation of the RSF funding levels based on the revenue
6 requirements sought in this rate case.

7 **IX. TRENDS IN CUSTOMER USAGE**

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

10 **A.** Yes. The 2021/2022 base wintertime consumption has dropped 3.4% since the 2019/2020
11 wintertime consumption.

12 **X. CUSTOMER BILL IMPACTS**

13 **Q. How do the proposed rate increases impact the average single-family residential**
14 **water bill?**

15 **A.** Please see FR Customer Impact for the impact of the requested permanent increase on an
16 average single-family residential bill on a monthly basis. The Company is seeking a total
17 increase of 13.06% increase in its' revenue requirement from its pro forma TY 2021 Five
18 Year Average Revenues. Assuming the overall revenue requirement sought by the
19 Company is distributed as detailed in my testimony the effective rate increase being
20 sought for a single family residential customer would be 13.18%, which would result in a
21 monthly bill of \$62.77 or an increase of \$7.31 per month to the average single family
22 current monthly water bill of \$58.49 per month based on the permanent rates approved in
23 DW 19-084, plus the 5.46%, which is the cumulative QCPAC increase granted in DW

1 20-20 and DW 21-023, or a monthly increase of the current bill of \$4.28 per month. The
2 Company is currently seeking a 1.75% QCPAC increase in DW 22-006 which would
3 increase the QCPAC surcharge on the permanent rates granted in DW 19-084 by 1.75%,
4 resulting in a cumulative QCPAC surcharge of 7.21%. Please note that the QCPAC
5 charges are eliminated when the permanent rates being sought in this filing are granted.
6 For the average single-family residential customer, the net increase in rates being sought
7 in this filing is 5.57% (Difference between the 13.18% blend of the fixed meter charge at
8 13.46% and the volumetric charge at 12.97% and usage of 7.76 CCF per month and the
9 7.21% QCPAC).

10 **XI. CUSTOMER NOTIFICATION**

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

12 **A.** In accordance with PUC 1203.02(c) and (d), the Company will be notifying its customers
13 regarding the rate filing by providing a form of notice. The notice will be sent in the
14 form of an insert with each customers July 2022 bills. All customers will have received
15 the notice on or before July 24th. A copy of the notification that will be sent to customers
16 is attached to this rate filing at Tab 6. This notice will be accompanied with a
17 “Frequently Asked Questions” (FAQ) letter, as has been done in the past, as an effort to
18 properly and fully customers of the rate case process, and the factors and timing involved
19 therein. Additionally, when the Commission issues the order to suspend tariffs and
20 schedules a prehearing conference, the Company will provide notification of that
21 Commission order to its customers via a posting on its on its website.

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

23 **A.** No.