## TAB 14

1604.08 Rate of Return Schedules

Pennichuck East Utility, Inc.
For the Twelve Months Ended December 31, 2019

| Capital Component | Amount | Component Ratio | Component Cost Rate | Average Cost Rate |
| :---: | :---: | :---: | :---: | :---: |
| Long-term Debt | 22,717,109 | 72.19\% | 3.68\% | 2.66\% |
| Intercompany Debt | 8,169,417 | 25.96\% | 2.90\% (1) | 0.75\% |
| Preferred Stock | - | 0.00\% | 0.00\% | 0.00\% |
| Common Equity | 583,814 | 1.86\% | 4.85\% (2) | 0.09\% |
| Overall Rate of Return | \$ 31,470,340 | 100.00\% |  | $\underline{\underline{3.50}} \%$ |

Notes:
(1) The interest reflected is the effective interest rates for 2019 per Schedule F-35 of the Annual Report.
(2) The return on equity based on methodology used in Order 25,292 in DW 11-026 is as follows:

Average prior 12 mos (Aug 2019-Jul
2020) 30 year Treasury bonds
1.85\%

Plus 3.0\%
3.00\%

Total $\quad 4.85 \%$

Pennichuck East Utility, Inc.
Historical Capital Structure For the Twelve Months Ended December 31, 2015-2019

Bonds
Other LTD
Long-term Debt
Intercompany Debt
Common Equity:
Common Stock
Paid In Capital
Comprehensive Income
Retained Earnings
Total Common Equity

Total Capital

| $\underline{2019}$ |  | $\underline{2018}$ |  | $\underline{2017}$ |  | $\underline{2016}$ |  | $\underline{2015}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 21,074,432 |  |  | 19,367,850 | 15,737,689 |  | 16,658,945 |  | 13,537,311 |  |
| \$ | 21,074,432 | \$ | 19,367,850 | \$ | 15,737,689 | \$ | 16,658,945 | \$ | 13,537,311 |
|  | 8,169,417 |  | 8,758,467 |  | 8,405,729 |  | 4,038,030 |  | 5,799,592 |
|  | 100 |  | 100 |  | 100 |  | 100 |  | 100 |
|  | 11,428,201 |  | 11,583,500 |  | 12,482,363 |  | 13,333,907 |  | 13,889,862 |
|  | $(212,036)$ |  | $(157,658)$ |  | $(224,522)$ |  | $(272,011)$ |  | $(328,900)$ |
|  | $(1,176,457)$ |  | $(636,301)$ |  | $(1,088,842)$ |  | $(128,250)$ |  | 128,854 |
| \$ | 10,039,808 | \$ | 10,789,641 | \$ | 11,169,098 | \$ | 12,933,745 | \$ | 13,689,917 |


| $\$ 39,283,657$ | $\$$ | $38,915,958$ | $\$$ | $35,312,517$ | $\$$ | $33,630,720$ | $\$$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Long-term Debt
Total Common Equity
Intercompany Debt
Total Capital

| $53.65 \%$ | $49.77 \%$ | $44.57 \%$ | $49.53 \%$ | $40.99 \%$ |
| ---: | ---: | ---: | ---: | ---: |
| $25.56 \%$ | $27.73 \%$ | $31.63 \%$ | $38.46 \%$ | $41.45 \%$ |
| $\underline{20.80 \%}$ | $\underline{22.51 \%}$ | $\underline{23.80 \%}$ | $\underline{12.01 \%}$ | $\underline{17.56 \%}$ |
| $\underline{\underline{100.00 \%}}$ | $\underline{100.00 \%}$ | $\underline{100.00 \%}$ | $\underline{100.00 \%}$ | $\underline{\underline{100.00 \%}}$ |

Pennichuck East Utility, Inc.
Historical Capitalization Ratios
For the Twelve Months Ended December 31, 2015-2019

|  | $\underline{2019}$ | $\underline{2018}$ | $\underline{2017}$ | $\underline{2016}$ | $\underline{2015}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Long-term Debt | 53.65\% | 49.77\% | 44.57\% | 49.53\% | 40.99\% |
| Total Common Equity | 25.56\% | 27.73\% | 31.63\% | 38.46\% | 41.45\% |
| Intercompany Debt | 20.80\% | 22.51\% | 23.80\% | 12.01\% | 17.56\% |
| Total Capital | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% |



|  | Dec-18 | Jan-19 | Feb-19 | Mar-19 | Apr-19 | May-19 | Jun-19 | Jul-19 | Aug-19 | Sep-19 | -19 | Nov-19 | Dec-19 | $\begin{aligned} & 13 \text { Month } \\ & \text { Average } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NOTE PAYABLE: PCP-2015 3M LOAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CURR PORT LTD: 3 M PCP NP | - |  |  |  |  |  |  |  |  |  |  |  | - |  |
| CURR PORT LTD: 1 M PCP NP |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ST NOTE PAYABLE - PCP 2018 1.7M LOAN ST NOTE PAYABLE - PCP 20181.1 M LOAN | $\begin{aligned} & (35,001) \\ & (23,808) \end{aligned}$ | $\begin{aligned} & (35,094) \\ & (23,872) \end{aligned}$ | $\begin{aligned} & (35,188) \\ & (23,935) \end{aligned}$ | $\begin{aligned} & (35,282) \\ & (23,999) \end{aligned}$ | $\begin{aligned} & (35,376) \\ & (24,063) \end{aligned}$ | $\begin{aligned} & (35,470) \\ & (24,127) \end{aligned}$ | $\begin{aligned} & (35,565) \\ & (24,192) \end{aligned}$ | $\begin{aligned} & (35,659) \\ & (24,256) \end{aligned}$ | $\begin{aligned} & (35,754) \\ & (24,321) \end{aligned}$ | $\begin{aligned} & (35,850) \\ & (24,386) \end{aligned}$ | $(35,945)$ $(24,451)$ | $\begin{aligned} & (36,041) \\ & (24,516) \end{aligned}$ | $\begin{aligned} & (36,137) \\ & (24,581) \end{aligned}$ | $\begin{aligned} & (35,566) \\ & (24,193) \end{aligned}$ |
| INTERCOMPANY SHORT TERM DEBT | $(58,809)$ | $(58,966)$ | $(59,123)$ | $(59,281)$ | $(59,439)$ | $(59,597)$ | $(59,756)$ | $(59,915)$ | $(60,075)$ | $(60,235)$ | $(60,396)$ | $(60,557)$ | $(60,719)$ | $(59,759)$ |
| NOTE PAYABLE: PCP-2015 3M LOAN | - |  | - |  | - |  |  |  | - |  | - |  | - | - |
| NOTE PAYABLE- PCP 2018 1.7M LOAN | $(1,646,609)$ | $(1,643,641)$ | $(1,640,666)$ | $(1,637,682)$ | $(1,634,691)$ | $(1,631,692)$ | $(1,628,684)$ | $(1,625,669)$ | $(1,622,646)$ | $(1,619,614)$ | $(1,616,575)$ | $(1,613,527)$ | (1,610,471) | (1,628,628) |
| NOTE PAYABLE - PCP 2018 1.1M LOAN | $(1,120,054)$ | $(1,118,036)$ | $(1,116,012)$ | $(1,113,982)$ | $(1,111,947)$ | $(1,109,907)$ | $(1,107,862)$ | $(1,105,811)$ | $(1,103,754)$ | $(1,101,692)$ | $(1,099,624)$ | $(1,097,551)$ | $(1,095,473)$ | $(1,107,823)$ |
| INTERCO LOAN NC-INTEGRATED |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INTERCO PAY/REC: PEU/TSC INTERCO PAY/REC: PEU/PWS |  | - |  |  |  |  |  |  |  |  |  |  |  |  |
| INTERCO PAYYREC: PEU/PWS INTERCO PAY/REC: PEU/PAC | - | 0 | ${ }_{1}^{(6)}$ | ${ }_{2}^{(6)}$ | ${ }_{3}^{(6)}$ | ${ }_{4}^{(6)}$ | ${ }_{1,006}^{(6)}$ | ${ }_{1,003}^{(6)}$ | ${ }_{1,014}^{(6)}$ | ${ }_{1,027}^{(6)}$ | ${ }_{1,070}^{(6)}$ | ${ }_{1,091}^{(6)}$ | : |  |
| INTERCO PAY/REC: PEU/PWW | - | $(367,609)$ | $(704,784)$ | $(1,252,016)$ | (1,650,223) | $(2,046,211)$ | $(2,426,112)$ | (1,649,555) | (2,049,873) | (969,290) | (1,111,053) | $(1,507,078)$ | - | $(1,210,293)$ |
| APINTERCO PAY/REC: PEU/PAC INTERCO PAY/REC: PEUIPCP | $(5,932,995)$ | (5,54,894 | 335 $(4,964,47)$ | $\begin{array}{r} 335 \\ (4,887,092) \end{array}$ | $\begin{array}{r} 335 \\ (4,462,009) \end{array}$ | $\begin{aligned} & 335 \\ & (4,399,090) \end{aligned}$ | $\begin{array}{r} 355 \\ (4,342,002) \end{array}$ | $\begin{array}{r} 3,099 \\ (4,721,582) \end{array}$ | $\begin{aligned} & 4,699 \\ & (4,691,169) \end{aligned}$ | $\begin{array}{r} 4,460 \\ (4,543,594) \end{array}$ | $\begin{gathered} 6,674 \\ (4,067,725) \end{gathered}$ | $\begin{gathered} 12,977 \\ (3,307,824) \end{gathered}$ | $(5,402,754)$ | $\begin{array}{r} 2,609 \\ (4,716,706) \end{array}$ |
| Intercompany Long term debt | $(8,699,658)$ | $(8,723,845)$ | $(8,425,579)$ | (8,890,442) | $(8,858,539)$ | $(9,186,568)$ | $(9,503,326)$ | $(9,098,520)$ | (9,461,735) | $(8,228,709)$ | $(7,887,239)$ | (7,511,918) | $(8,108,698)$ | $(8,660,367)$ |
| TOTAL INTERCOMPANY DEBT | $(8,758,467)$ | $(8,782,811)$ | (8,484,702) | (8,949,723) | (8,917,977) | (9,246,165) | $(9,563,082)$ | (9,158,436) | (9,521,810) | $(8,288,944)$ | (7,947,635) | (7,572,476) | (8,169,417) | (8,720,127) |

Pennichuck East Utility, Inc.
Weighted Average Cost of Preferred Stock
Schedule 7
For the Twelve Months Ended December 31, 2019

|  |  |  | Outstanding | Annual | Annual | All In Annual | Effectve |  |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Security | Term | Maturity | Rate | Balance | Dividends | Amortization | Cost | Rate |

## NOT APPLICABLE

## Pennichuck East Utility, Inc.

Return on Common Equity
Schedule 8
For the Twelve Months Ended December 31, 2019

Source: 30 yr treasury rates used by S\&P

| Date | Open High | Low | Close |
| :---: | :---: | :---: | :---: |
| Aug 2019 |  |  | 2.1200\% |
| Sept 2019 |  |  | 2.1600\% |
| Oct 2019 |  |  | 2.1900\% |
| Nov 2019 |  |  | 2.2800\% |
| Dec 2019 |  |  | 2.3000\% |
| Jan 2020 |  |  | 2.2200\% |
| Feb 2020 |  |  | 1.9700\% |
| Mar 2020 |  |  | 1.4600\% |
| Aprl 2020 |  |  | 1.2700\% |
| May 2020 |  |  | 1.3800\% |
| Jun 2020 |  |  | 1.4900\% |
| Jul 2020 |  |  | 1.3100\% |
|  | 30 year Treasury bonds | Average | 1.8458\% |
|  |  | Plus | 3.0000\% |
|  |  | Cost of Equity | 4.8458\% |

