Pittsfield Aqueduct Company
Overall Rate of Return Proforma
Staff 3-7
For the Twelve Months Ended December 31, 2019

| Capital Component |  | $\begin{aligned} & \text { Amount } \\ & \hline 12 / 31 / 19 \\ & \hline \end{aligned}$ |  | Proforma |  |  | $\begin{aligned} & \text { forma Amount } \\ & \underline{12 / 31 / 19} \end{aligned}$ | Proforma <br> Component Ratio | $\frac{\text { Component }}{\frac{\text { Cost Rate }}{}}$ | $\frac{$ Proforma  <br>  Component Cost }{ Rate } | Profroma <br> Average <br> Cost Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Long-term Debt (3) |  | 1,312,186 | (3) | - |  |  | 1,312,186 | 64.58\% | 3.10\% | 3.10\% | 2.00\% |
| Intercompany Debt (3) |  | 14,674 |  | - |  |  | 14,674 | 0.72\% | 3.31\% | 3.31\% (1) | 0.02\% |
| Preferred Stock |  | - |  |  |  |  |  | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Common Equity |  | 1,768,307 |  | $(1,063,241)$ |  |  | 705,066 | 34.70\% | 4.85\% | 4.85\% (2) | 1.68\% |
| Overall Rate of Return |  | 3,095,167 |  |  |  | \$ | 2,031,926 | $\underline{\underline{100.00 \%}}$ |  |  | 3.71\% |

## 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 methodolog used in Order 25,292 in DW 11-026 is as follows:

Average prior 12 mos (Aug 2019-Jul
$\begin{array}{rr}2020) 30 \text { year Treasury bonds } & 1.85 \% \\ \text { Plus } 3.0 \% & 3.00 \%\end{array}$
$\square$
(3) Inclusive of 2018 pcp/PAC LONG term intercompany approved in DW18-033
(4) Per Order 25,292 in DW 11-026, eliminate the MARA and related equity per Schedule 2 as required by DW11-026

Pittsfield Aqueduct Company
Capital Structure for Ratemaking Purposes
Schedule 2
For the Twelve Months Ended December 31, 2019

|  | Test Year |  | Pro Forma Adjustment |  | Pro Forma | Component |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Long-term Debt |  | 1,312,186 | - |  | 1,312,186 | 64.58\% |
| Intercompany Debt | \$ | 14,674 | - |  | 14,674 | 0.72\% |
| Common Equity: |  |  |  |  |  |  |
| Common Stock |  | 100 | (100) |  | - |  |
| Paid In Capital |  | 1,899,596 | $(1,063,241)$ | (1) | 836,355 |  |
| Comprehensive Income |  | - | - |  | - |  |
| Retained Earnings |  | $(131,389)$ |  |  | $(131,389)$ |  |
| Total Common Equity |  | 1,768,307 |  |  | 704,966 | 34.70\% |
| Total Capital | \$ | 3,095,167 |  |  | \$ 2,031,826 | 100.00\% |

## Notes:

(1) Per Order 25,292 in DW 11-026, eliminate the MARA and related equity:

Equity as of 1/25/
826,112
Paid in Capital as of $1 / 25 / 12$

237,129
1,063,241

Pittsfield Aqueduct Company
Historical Capital Structure
For the Twelve Months Ended December 31, 2015-2019

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

Total Capital

|  | $\underline{2019}$ | $\underline{2018}$ |  | $\underline{2017}$ |  | $\underline{2016}$ |  | $\underline{2015}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - |  | - |  | - |  | - |  | - |
|  | 1,147,728 |  | 1,172,125 |  | 776,850 |  | 776,850 |  | 776,850 |
|  | 164,458 |  | 168,331 |  | 171,163 |  | 58,117 |  | - |
| \$ | 1,312,186 | \$ | 1,340,456 | \$ | 948,013 | \$ | 834,967 | \$ | 776,850 |
|  | 14,674 |  | 85,570 |  | 423,622 |  | 443,407 |  | 465,569 |
|  | 100 |  | 100 |  | 100 |  | 100 |  | 100 |
|  | 1,899,596 |  | 1,935,318 |  | 2,064,824 |  | 2,185,204 |  | 2,224,208 |
|  | $(131,389)$ |  | $(137,454)$ |  | $(23,553)$ |  | -- |  | $52,358$ |
| \$ | 1,768,307 | $\stackrel{1}{ }$ | 1,797,964 | \$ | 2,041,371 | \$ | 2,188,332 | \$ | 2,276,666 |
| \$ | 3,095,167 | \$ | 3,223,990 | \$ | 3,413,005 | \$ | 3,466,706 | \$ | 3,519,085 |


| Long-term Debt | $42.39 \%$ | $41.58 \%$ | $27.78 \%$ | $24.09 \%$ | $22.08 \%$ |
| :--- | ---: | :---: | ---: | :---: | :---: |
| Total Common Equity | $57.13 \%$ | $55.77 \%$ | $59.81 \%$ | $63.12 \%$ | $64.69 \%$ |
| Intercompany Debt | $\underline{0.47 \%}$ | $\underline{2.65 \%}$ | $\underline{12.41 \%}$ | $\underline{12.79 \%}$ | $\underline{13.23 \%}$ |
| Total Capital | $\underline{100.00 \%}$ | $\underline{100.00 \%}$ | $\underline{100.00 \%}$ | $\underline{100.00 \%}$ | $\underline{100.00 \%}$ |

Pittsfield Aqueduct Company
Historical Capitalization Ratios
For the Twelve Months Ended December 31, 2015-2019

Staff 3-7
Schedule 4
$\underline{2019} \underline{2018} \underline{2017} \underline{2015}$
$42.39 \% \quad 41.58 \% \quad 27.78 \% \quad 24.09 \% \quad 22.08 \%$
$57.13 \% \quad 55.77 \% \quad 59.81 \% \quad 63.12 \% \quad 64.69 \%$
$\underline{0.47 \%} \quad \underline{2.65 \%} \quad \underline{12.41 \%} \quad \underline{12.79 \%} \quad 13.23 \%$
$\underline{\underline{100.00 \%}} \underline{\underline{100.00 \%} \quad 100.00 \% ~ 100.00 \%} 1 \underline{\underline{100.00 \%}}$

| pittsfield Aqueduct Company For weighted Average Cost of Long-Term Dobt Revised per Staff DR 3.7 $515 / 21$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Holder | Term | Maturity | $\begin{gathered} \text { Coupon } \\ \text { Rate } \end{gathered}$ | Outstanding Balance as of $12 / 31 / 19$ $\qquad$ | $\begin{aligned} & \text { New Debt } \\ & \text { Added in } \\ & 2020 \end{aligned}$ | $\begin{array}{\|c} \text { Annual } \\ \text { Interest (1) } \end{array}$ | Annual Amortization All Issue Costs | $\begin{aligned} & \text { All In Annual } \\ & \hline \end{aligned}$ | Effectlve Rate | $\begin{gathered} 2019 \mathrm{TY} \\ \text { Princial } \\ \text { Payments }(9) \\ \hline \end{gathered}$ | $\begin{gathered} 2019 \text { Tr } \\ \text { Piterest } \\ \text { Payments } \end{gathered}$ | $\begin{gathered} \text { Princi9al and } \\ \text { Priter } \\ \text { payment } \\ \hline \text { Payments } \end{gathered}$ | $\begin{aligned} & 2019 \text { Pro } \\ & \text { Form Adj to } \\ & 2019 \text { TY } \\ & \text { Principal } \\ & \hline \end{aligned}$ | $\begin{gathered} 2019 \text { Pro } \\ \text { Form Adj to } \\ 2019 \text { TY } \\ \text { Interest } \\ \hline \end{gathered}$ | $\begin{gathered} 2019 \text { TY Pro } \\ \text { Form Principal } \\ \text { and Interest } \\ \text { Payments } \\ \hline \end{gathered}$ | 2020 Principal 2 Payments | 2020 Interest Payments | 2020 Principal and Interest and Interest Payments |
| $\begin{aligned} & \text { SRF Catamount Road } \\ & \text { Intercompany Loan from PCP (1) } \\ & \text { TOTAL } \end{aligned}$ | ${ }_{30}$ | 04/30/48 <br> 05/31/4 | $\begin{gathered} 1.960 \% \\ 3.200 \% \end{gathered}$ | $\begin{gathered} 164,458 \\ \substack{1,4,7728 \\ 1,312,186} \end{gathered}$ |  | $\begin{gathered} 3.223 \\ \begin{array}{c} 36,727 \\ 39,951 \end{array} \\ \hline \end{gathered}$ | $\begin{aligned} & 673 \\ & \hline 5 \\ & 748 \end{aligned}$ |  |  |  |  |  | $\underbrace{\text { \#REF! }}_{\text {\#REF! }}$ | $s{ }_{\text {\#REREI }}^{\text {\#REFI }} \mathrm{H}$ |  | $\underbrace{\substack{\text { \#REF! } \\ \text { 24,111 }}}_{\text {\#REF! }}$ |  |  |

$\frac{\text { Notes: }}{\text { (1) Inte }}$



Pittsfield Aqueduct Company
Weighted Average Cost of Preferred Stock For the Twelve Months Ended December 31, 2012

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

## NOT APPLICABLE

## Pittsfield Aqueduct Company Return on Common Equity <br> 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\% |

Pittsfield Aqueduct Company
Report of Proposed Rate Changes
For the Twelve Months Ended December 31, 2019

Pro Forma Schedule 9 Permanent

DOCKET NO:
TARIFF NO.:

DATE FILED:
EFF. DATE:


Signed by:

[^0]Bingo Sheet Perm
For the Twelve Months Ended December 31, 2019

## UTILITY:

Pittsfield Aqueduct Company
DATE FILED:
TARIFF NO.:
5
or PAGE NOS. 39-40 EFF. DATE:

| Rate or Class of Service | Effect of Proposed Change | Average Number of Customers | Estimated Annual Revenue | Proposed Change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Pro Forma <br> Rate to TY <br> Five Year Ave <br> (1) | Proposed Rates | \$\$ Amunt Increase over TY Current Rates 5 Yr. Ave. Pro Forma | \% Increase |
| G-M ${ }^{2}$ | Increase | 630 | 571,063 | 602,158 | 31,095 | 5.45\% |
| Private FP ${ }^{3}$ | Increase | 12 | 29,067 | 30,650 | 1,583 | 5.45\% |
| FP - Hydrants | Increase | 1 | 175,804 | 185,377 | 9,573 | 5.45\% |
| TOTALS |  | 643 | 775,934 | 818,185 | 42,251 |  |


[^0]:    ${ }^{3}$ Includes Private Fire Services and Private Hydrants - count is number of accounts

