## Pennichuck East Utilities DW17-128 **Calculation of Rate Stabilization Funds**

Pennichuck East Utility, Inc. **Stabilization Fund Calculations** Settlement Agreement Revised Per Staff and Town DR 3 and Tech session adjustments 8/10/2021, Revised for Settlement 12/1/2021

Increase in Material Operating Expenses of

DLW Exh 1

		PEU Proforma Test Year 2019										
			\$	10,160,719								
					CBFRR	Exp R incl	erial Operating ense Revenue equirement, usive of MOEF I Amortization Expense	Operating Expense Revenue Requirement <sup>6</sup>	-	.0 Debt Service Reveue Requirement	Re	ot Service eveue irement
		Reven	nue Requirement <sup>2</sup> -	\$	926,309	\$	7,313,909	\$ 7,163	\$	1,739,398	\$	173,940
		Percent	age of Revenues -		9.12%		71.98%	0.079	6	17.12%		1.71%
ase in Material Operating Expenses of	3.00%	3	Years coverage -	\$	61,187	\$	1,761,614		\$	114,896	\$	-
per year based on averge increase of these ex	enses	Requested Rate Stabilization Fund by Rev	venue Category <sup>3,4</sup> -	\$	60,000	\$	1,760,000	No Stabilization Fund	\$	110,000	No Stabiliz	ation Fund
per year between 2012 and 2017. See Table	pelow	DW17-128 Approve	ed RSF fund level -	\$	31,000	\$	898,000		\$	51,000		
for calcu	lation.	Based on largest negative variance from	ı five year ave of -		3.83%							
Revenue Shortfal	per ye	ar for worst sales year in the past 5 years compared agains	st 5 year average -	\$	20,396	\$	159,823		\$	38,299		

Revenue Type	2015 PEU Billed Revenue <sup>7</sup>	2016 PEU Billed Revenue <sup>8</sup>	2017 PEU Billed Revenue	2018 PEU Billed Revenue	2019 PEU Billed Revenue	
Total Volumetric Charges (less Recoupment from DW13-1xx)	\$ 4,226,401	\$ 4,024,926	\$ 4,141,266	\$ 5,197,607	\$ 5,092,286	
Total Capital Recovery Surcharge (fixed)	\$ 297,430	\$ 299,985	\$ 301,710	\$ 232,134	\$ 181,603	
Total Meter Charge (less recoupment - fixed from DW13-1xx)	\$ 1,750,470	\$ 2,114,832	\$ 1,739,677	\$ 2,147,407	\$ 2,220,050	
Total Fire Protection - Public & Private (fixed)	\$ 912,761	\$ 931,801	\$ 979,863	\$ 1,111,319	\$ 1,294,961	
Total Billed Revenue (does not included Misc. Operating Revenues)	\$ 7,187,062	\$ 7,371,544	\$ 7,162,516	\$ 8,688,466	\$ 8,788,900	
Misc . Operating Revenues	\$ 42,103	\$ 39,407	\$ 34,791	\$ 35,989	\$ 30,188	
Total Annual Revenues inclusive of Misc. operating revenues	\$ 7,229,165	\$ 7,410,951	\$ 7,197,307	\$ 8,724,455	\$ 8,819,088	
% of Revenues that are variable	58.5%	54.3%	57.5%	59.6%	57.7%	
% of Revenues that are fixed	41.5%	45.7%	42.5%	40.4%	42.3%	

57.5%

Average percentage of revenues that were variable during the previous 5 years -

	2015 PEU Actual	2016 PEU Actual	2017 PEU Actual	2018 PEU Actual	2019 PEU Actual	
Expense Type	Variable Expenses Variable Expenses		Variable Expenses	Variable Expenses	Variable Expenses	
Purchased Water	\$ 959,966	\$ 1,009,818	\$ 952,865	\$ 1,104,605	\$ 1,018,049	
Electric	\$ 302,197	\$ 279,236	\$ 269,019	\$ 313,229	\$ 337,595	
Chemicals	\$ 32,816	\$ 66,908	\$ 79,231	\$ 75,072	\$ 87,745	
Total Variable Costs	\$ 1,294,979	\$ 1,355,962	\$ 1,301,115	\$ 1,492,906	\$ 1,443,389	
Variable Expenses as a Percent of Total Revenues	17.9%	18.3%	18.1%	17.1%	16.4%	

	2015 Actual CCF's sold by PEU	2016 Actual CCF's sold by PEU	2017 Actual CCF's sold by PEU	2018 Actual CCF's sold by PEU	2019 Actual CCF's sold by PEU
Annual Metered Sales (CCF)	691,374	728,091	661,679	684,279	669,602
Percentage Variance between Current and High Consumption Year	-5.31%	0.00%	-10.04%	-6.40%	-8.73%
Average Consumption (CCF) over the past five years	687,005	1	1	ļ	1
Variance between current and 5 Yr Ave Consumption	0.63%	5.64%	-3.83%	-0.40%	-2.60%

PEU of Largest percentage reduction in volumetric sales at Results in a Revenue loss of \$ 194,909 Results in an Operating Expense reduction of \$ 55,246 Results in an Operating Income reduction of \$

3.83% over the past five years from the five year average of volumetric sales

Requested MOEF -		4.00%	MOEF @ 6% -	\$ 418,940		
Rate increase @ requested MOEF -		16.79%	Annual MOEF cash lost -	\$ 139,647	@	4.00% MOEF
Annual MOEF Cash -	\$	279,293	Additional RSF borrowing -	\$ 418,940	@	4.00% MOEF
1,930,000 Requested RSF totals w	ith n	MOEF	based on	3 ye	ars of cash ne	ecessary to keep RSF
Requested RSF funds with MOEF -	\$	980,000		ac	counts near	their imprest levels at the
MOERR from 1604.06 Sch A -	\$	6,982,335		be	ginning of th	e next rate case.

		DER RSF, based on over the past 5 years					
	Inflation	Revenue Shortfall					
Yr 1 -	\$ 209,470	\$ 159,823					
Yr 2 -	\$ 425,224	\$ 159,823					
Yr 3 -	\$ 647,451	\$ 159,823					
	\$ 1,282,145	\$ 479,469					
	Totals -	\$ 1,761,614					

Projected MOERR Revenues		i	ected MOERR Expenses nclusive of mortization Expenses	nsfer into/out of MOER RSF Account	MOER RSF Balance		
					\$	898,000	
\$	7,313,909	\$	7,244,086	\$ 69,823	\$	967,823	
\$	7,313,909	\$	7,459,840	\$ (145,931)	\$	821,893	
\$	7,313,909	\$	7,682,067	\$ (368,158)	\$	453,735	
					\$	872,675	

## Pennichuck East Utilities DW17-128 Calculation of Rate Stabilization Funds

## Calculation of Annual Material Operating Expense Adjustment Percentage

	2016 PEU Material Operating Expenses (DW17-128 TY)		2018 PEU Material Operating Expenses	2019 PEU Material Operating Expenses	2019 PEU Proforma Material Operating Expenses <sup>9</sup>	2020 Unaudited Material Operating Expenses	Increase in Pro Forma TY Operating Expense since the prior rate case TY	Average annual increase in Operating Expenses between 2016 MOE's and 2019 Proforma MOE's	Increase in Operating Expense between 2018 and 2019 Proforma	Increase in Operating Expense between 2018 and 2020 Actual
Production Expenses			2,290,425	2,257,199	2,349,324	2,670,931	17.95%	4.21%	1.28%	7.99%
Transmission & Distribution Expenses	\$ 616,944	\$ 696,492	737,584	1,006,231	676,427	743,929	9.64%	2.33%	-4.24%	0.43%
Customer Acct & Collection Exp	\$ 184,106	\$ 192,789	200,152	204,718	198,984	184,845	8.08%	1.96%	-0.29%	-3.90%
Administrative & General Expense	\$ 155,295	\$ 167,568	184,537	181,461	174,090	177,946	12.10%	2.90%	-2.87%	-1.80%
Inter Div Management Fee (Sum of PWW and PCP fees)	\$ 1,811,426	\$ 2,098,399	2,356,956	2,397,261	2,434,683	2,481,134	34.41%	7.67%	1.64%	2.60%
Amortization Expense	\$ 50,687	\$ 58,618	86,683	127,440	52,281	64,174	3.14%	0.78%	-22.34%	-13.96%
Property Taxes	\$ 1,051,160	\$ 891,416	1,021,406	1,174,044	1,241,441	1,182,385	18.10%	4.25%	10.25%	7.59%
Federal and State Income Taxes	\$ -	\$ -	18,779	3,775	23,882	3,978				
Less NOERR Expenses	\$ 8,305	\$ 20,278	36,869	27,863	7,163	17,518				
Total Annual MOERR Expenses	\$ 5,853,091	\$ 6,051,067	\$ 6,859,654	\$ 7,324,266	\$ 7,143,950	\$ 7,491,804	22.05%	5.11%	2.05%	4.51%
Less variable expenses for the year	\$ 1,355,962	\$ 1,301,115	\$ 1,492,906	\$ 1,443,389	\$ 1,520,218	\$ 1,801,903	12.11%	2.90%	0.91%	9.86%
Total Annual MOERR Expenses less variable expenses	\$ 4,497,129	\$ 4,749,952	\$ 5,366,747	\$ 5,880,877	\$ 5,623,732	\$ 5,689,901	25.05%	5.75%	2.37%	2.97%
Averag	e Annual Increase in Pro	oforma Material Opera	ting Expenses, exclus	ive of variable expense	ed since last rate case		5.75%		_	

## Notes:

1. Based on Debt Service Multiplier of 1.10 per Sch A of 1604.06 schedules. The 1.1 multiplier is not applied to the North Country Capital Recovery Surcharge P&I. Revenue requirement is inclusive of the \$ 30,188.00 of other revenues

2. Revenue requirements per Sch A of 1604.06 schedules

3. Requested Rate Stabilization fund for Operating Expense and P & I Coverage each have a contingency of 0% safety factor and are based on year ending 2019 results

4. PEU share of the \$5,000,000 RSF for distribution to the RSF, MOERSF and the P&IRSF is \$980,000 \$\$980,000 \$\$19.56%\$\$ based on % of PWW revenues (2012 Case) to % of all three regulated utilities revenues (2012 Cases) or \$980,000 \$\$19.56%\$\$ \$19.5

5. Calculation of RSF Pecentage based on Revenue requirements from DW13-126, 13-128 and 13-130

PWW Revenue Requirment - \$ 27,689,214 per DW13-130 Settlement Agreement
PEU Revenue Requirement - \$ 6,913,261 per DW13-126 Settlement Agreement
PAC Revenue Requirement - \$ 745,186 per DW13-128 Settlement Agreement

Total Utility Revenue Requirement - \$ 35,347,663

6. For Calculation of Operating Expense Requirement see Exhibit 1.1  $\,$ 

2015 Billed Recoupment from DW13-1xx- \$ 196,261 2016 Billed Recoupment from DW13-1xx- \$ 16,968

9. 2019 amortization expense proforma does not include deferred debit to refill depleted RSF accounts

10. 2018 Revenues include