Schedule 1

Pennichuck Water Works, Inc. Overall Rate of Return For the Twelve Months Ended December 31, 2009

Capital Component		Amount		Component <u>Ratio</u>	Component Cost <u>Rate</u>		Average Cost <u>Rate</u>
Long-term Debt	\$	51,855,007	(2)	49.67%	5.94%	(2)	2.95%
Short-term Debt		-		0.00%	0.00%		0.00%
Preferred Stock		(=		0.00%	0.00%		0.00%
Common Equity	_	52,553,720		50.33%	9.75%	(1)	4.91%
Overall Rate of Return	\$	104,408,727		100.00%			<u>7.86</u> %

Notes:

⁽¹⁾ The return on equity is based on the last authorized return (DW 08-073)

⁽²⁾ The long term debt and interest rate includes proforma adjustments as reflected on Schedules 5 and is calculated on debt net of debt issuance costs

Pennichuck Water Works, Inc. Capital Structure for Ratemaking Purposes For the Twelve Months Ended December 31, 2009

Schedule 2

	Component <u>Ratio</u>	Test Year	Pro Forma Adjustments	Pro Forma <u>Test Year</u>	Component Ratio
Long-term Debt (2)	49.90%	\$ 52,337,385	(482,378) (1)	\$ 51,855,007	49.67%
Common Equity: Common Stock Paid In Capital Comprehensive Income Retained Earnings Total Common Equity	50.10%	30,000 39,011,141 - 13,512,579 \$52,553,720	- - -	30,000 39,011,141 13,512,579 52,553,720	50.33%
Short-term Debt		-	-	-	
Total Capital	100.00%	\$ 104,891,105	(482,378)	\$ 104,408,727	100.00%

Notes:

⁽¹⁾ reflects the debt additions/retirements pro forma adjustment per Schedule 5. (2) reflects the long term debt net of debt issuance costs per Schedule 5.

Pennichuck Water Works, Inc. Historical Capital Structure For the Twelve Months Ended December 31, 2009

Schedule 3

	2008	2007	2006	2005	2004
Bonds Other LTD	\$ 53,212,827 3,322,155	\$ 54,805,361 3,359,326	\$ 41,624,883	\$ 35,458,105	\$ 19,985,486 504,677
Long-term Debt	 56,534,982	58,164,687	41,624,883	35,458,105	20,490,163
Common Equity:					
Common Stock	30,000	30,000	30,000	30,000	30,000
Paid In Capital	29,306,141	27,056,141	27,056,141	27,056,141	12,056,141
Comprehensive Income	.=	-	1,834,598	(808,533)	(605,581)
Retained Earnings	12,823,626	13,172,313	10,999,060	10,650,369	8,889,844
Total Common Equity	42,159,767	40,258,454	39,919,799	36,927,977	20,370,404
Short-term Debt	=	-	-	-	2
Total Capital	\$ 98,694,749	\$ 98,423,141	\$ 81,544,682	\$ 72,386,083	\$ 40,860,567

Pennichuck Water Works, Inc. Historical Capitalization Ratios For the Twelve Months Ended December 31, 2009

	2008	<u>2007</u>	<u>2006</u>	<u>2005</u>	<u>2004</u>
Long-term Debt	57.3%	59.1%	51.0%	49.0%	50.1%
Total Common Equity	42.7%	40.9%	49.0%	51.0%	49.9%
Total Capital	100.0%	100.0%	100.0%	100.0%	100.0%

Schedule 4

Pennichuck Water Works, Inc. Weighted Average Cost of Long-Term Debt For the Twelve Months Ended December 31, 2009

Schedule 5

Annual

										Annual		Funded
Holder	Term	Maturity	Rate	Outstanding Balance	Unamort Debt Issue Costs	Unamort Prem/Disc	Outstanding Debt Funded	Annual Interest	Annual Amort Issue Costs	Disc/Prem Costs	All In Annual Cost	Effectve Rate
IDA Loans (1)				-	39,660		(39,660)		5,766		5,766	N/A
American United Life (7)	25	3/1/21	7.40%	6,800,000	73,358		6,726,642	503,200	6,619		509,819	7.58%
American United Life	5	3/4/10	5.00%	5,000,000	4,087		4,995,913	250,000	4,087		254,087	5.09%
BFA of NH - WTP (2005 Series A) (6)	30	10/1/35	4.70%	12,125,000	1,271,526	(312,219) 10,541,256	569,875	49,205	12,125	631,205	5.99%
BFA of NH - WTP (2005 Series B-1) (5)				275	177,612	56,273	(121,338)	-	11,006	(2,185)	8,820	N/A
BFA of NH (Series A)	30	1/1/35	4.70%	1,810,000	216,324		1,593,676	85,070	8,679		93,749	5.88%
BFA of NH (Series B)	25	1/1/30	4.60%	2,335,000	346,689		1,988,311	107,410	17,301		124,711	6.27%
BFA of NH (Series C)	20	1/1/25	4.50%	1,205,000	168,333		1,036,667	54,225	11,251		65,476	6.32%
BFA of NH (Series BC-3) (6)	10	4/1/18	5.00%	7,500,000	604,742	182,713	7,077,971	375,000	69,189	(21,870)	422,319	5.97%
BFA of NH (Series BC-4) (6)	27	4/1/35	5.375%	12,500,000	1,080,026	336,251	11,756,225	671,875	41,207	(13,052)	700,030	5.95%
BFA of NH	25	4/1/22	6.30%	3,600,000	108,767		3,491,233	226,800	8,819		235,619	6.75%
State of NH	20	5/1/22	3.80%	272,562	2,507		270,056	10,357	281		10,639	3.94%
WTP SRF (3)	20	10/1/29	4.488%	2,976,693	4,568	l.	2,972,125	133,594	234		133,828	4.50%
Twin Ridge SRF	10	4/1/13	2.315%	49,593	1,284		48,309	1,148	593		1,741	3.60%
				\$ 56,173,848	\$ 4,099,482	\$ 263,018	\$ 52,337,385	\$ 2,988,554	\$ 234,237	\$ (24,983)	\$ 3,197,809	6.11%
Pro Forma Adjustments:												
American United Life (2)	5	3/4/10	5.00%	(5,000,000)			(5,000,000)		-		(250,000)	
ARRA Ashley Commons Debt (4)	20		1.872%	450,000			450,000	8,424			8,424	1.87%
ARRA Step Additions Debt (3)	20	TBD TBD	1.872% 3.728%	1,656,000	12,478	3	1,643,522	31,000		-	31,000	1.89%
SRF Step Additions Debt (3) Pro Forma Cost of Long Term Debt	20	IBD	3.720%	\$ 55,703,948	\$ 4,111,959	\$ 263,018	2,424,100 \$ \$ 51,855,007	90,370 \$ 2,868,349	\$ 234,237	\$ (24,983)	90,370 \$ 3,077,604	3.73% 5.94%
				,,,	+ .,,		+ -1,000,001	+ -,500,010	+ 201,201	+ (=+,000)	+ 0,011,004	0.0 170

Notes

- (1) The debt issuance costs and amortization reflected is from retired debt.
- (2) Reflects the debt retirement in March 2010
- (3) Reflects the additional low interest SRF/ARRA debt that will be incurred in 2010 related to the step increase capital additions.
- (4) The Debt was issued in January 2010 for capital additions placed in service in December 2009.
- (5) On October 1, 2008, the Company repurchased/retired \$6 million 2005 Series B-1 Revenue Bonds and deposited them as treasury bonds with the escrow agent. The Company continues to amortize the related debt issuance costs and premium.
- (6) The annual amortization of debt issuance costs reflects the additional debt issuance costs allocated in January 2010 for the BFA financiing.
- (7) The AULI note has an annual principal payment due on March 1st of each year in the amount of \$400,000. The full year interest is calculated on the balance of \$6.8 million

Pennichuck Water Works, Inc. Cost of Short-Term Debt For the Thirteen Months Ended December 31, 2009

Schedule 6

														13 Month
	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Average
INTERCO PAY/REC: PENN CORP				-						-				
INTERCO PAY/REC: PWW/PCP	2,227,398	2,334,745	4,113,596	4,542,036	5,468,691	6,511,381	7,688,696	7,904,479	8,964,844	8,840,457	8,720,312	6,269,945	(1,411,111)	
INTERCO PAY/REC: PWW/TSC	*			-					-	-		-	-	
INTERCO PAY/REC: PWW/TSC	(606,939)	(608,876)	(610,422)	(612,388)	(614,167)	(618, 291)	(621,618)	(623,953)	(625,826)	(628,554)	(630, 209)	(631,970)	(634,071)	
INTERCO PAY/REC: PWW/PWS	~	-	-	-	-	-	-	-	141	-	140	-		
INTERCO PAY/REC: PWW/PWS	(4,832,114)	(5,004,168)	(5,193,190)	(5,386,366)	(5,567,772)	(5,825,712)	(6,039,469)	(6,205,532)	(6,368,016)	(6,548,919)	(6,744,384)	(6,908,254)	(7,138,958)	
INTERCO PAY/REC: PWW/PAC	-						: * :	: w:	-	-		-	-	
INTERCO PAY/REC: PWW/PAC	(2,732,152)	(2.806,054)	(2,867,287)	(2,935,623)	(2,998,393)	(3.067,157)	(3,147,971)	(3,220,458)	(3,309,792)	(3,429,351)	(3,504,190)	(3,575,675)	(3,661,556)	
INTERCO PAY/REC: PWW/PEU	(35)		-			-		-		-			-	
INTERCO PAY/REC: PWW/PEU	(4,667,807)	(4,843,462)	(5,030,525)	(5,289,325)	(5,590,897)	(5,800,361)	(6,008,141)	(6,210,224)	(6,410,499)	(7,279,118)	(7.442,233)	(7,601,647)	(7,792,577)	
Pennichuck Interco Net Liability	(10,611,650)	(10,927,816)	(9,587,829)	(9,681,667)	(9,302,539)	(8,800,140)	(8,128,503)	(8,355,689)	(7,749,290)	(9,045,484)	(9,600,704)	(12,447,602)	(20,638,273)	(10,375,168)

Pennichuck Water Works, Inc. Weighted Average Cost of Preferred Stock For the Twelve Months Ended December 31, 2009

Schedule 7

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

NOT APPLICABLE

Pennichuck Water Works, Inc. Cost of Common Equity Capital For the Twelve Months Ended December 31, 2009

Schedule 8

NOT APPLICABLE

Pro Forma Schedule 9 **Temporary**

DOCKET NO:

DW 10-091

DATE FILED:

5/6/2010

TARIFF NO .:

5 or PAGE NOS. 40-42 and 57 EFF. DATE:

Proposed Change

Rate or Class of Service	Effect of Proposed Change	Average Number of Customers	Pro Forma Present Rates	Proposed Rates	<u>Amount</u>	<u>%</u>
G-M	Increase	25,304	19,111,902	\$21,056,413	\$1,944,511	10.17%
Private FP	Increase	807	852,380	1,005,371	152,991	17.95%
FP - Hydrants Anheuser-Busch	No Increase	5	2,817,166	2,810,468	(6,698)	-0.24%
Contract Milford Contract	Increase	2	862,048	1,390,148	528,101	61.26%
Contract Charges	No Increase	1	81,000	81,000	-	0.00%
Volumetric Charges	Increase	-	68,551	82,553	14,002	20.43%
Hudson Contract					-	
Contract Charges	No Increase	1	32,800	32,800	-	0.00%
Volumetric Charges	No Increase	-	290,579	264,084	(26,494)	-9.12%
TOTALS		26,120	\$24,116,425	\$26,722,838	\$2,606,413	10.81%

Notes:

The Proposed rates and the amount of the increase is based on the Cost of Service Study. In the Study, a slight difference is noted in the allocation of the proposed revenue vs. the revenue requirement reflected in the rate filing schedules.

Signed by	igned	a by
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Bonalyn J. Hartley

Title:

Vice President - Administration

Pro Forma Schedule 9 Permanent

 DOCKET NO:
 DW 10-091
 DATE FILED:
 5/6/2010

 TARIFF NO.:
 5
 or PAGE NOS.
 40-42 and 57
 EFF. DATE:

						Proposed Ch	ange
Rate or Class of Service	Effect of Proposed Change	Average Number of Customers	Pro Forma Present Rates	Pro	oposed Rates	Amount	<u>%</u>
G-M	Increase	25,304	\$ 19,111,902	\$	22,209,914	\$ 3,098,013	16.21%
Private FP	Increase	807	852,380		1,005,371	152,991	17.95%
FP - Hydrants	Increase	5	2,817,166		2,952,887	135,720	4.82%
Anheuser-Busch Contract Milford Contract	Increase	2	862,048		1,390,148	528,101	61.26%
Contract Charges	No Increase	1	81,000		81,000	-	0.00%
Volumetric Charges	Increase	-	68,551		85,846	17,295	25.23%
Hudson Contract							
Contract Charges	No Increase	1	32,800		32,800	-	0.00%
Volumetric Charges	No Increase		290,579		274,622	(15,956)	-5.49%
TOTALS		26,120	\$24,116,426	\$	28,032,589	\$3,916,164	16.24%

Notes:

The Proposed rates and the amount of the increase is based on the Cost of Service Study. In the Study, a slight difference is noted in the allocation of the proposed revenue vs. the revenue requirement reflected in the rate filing schedules.

Signed by:		
	Bonalyn J. Hartley	
Title:	Vice President - Administration	

Pro Forma Schedule 9 Step

 DOCKET NO:
 DW 10-091
 DATE FILED:
 5/6/2010

 TARIFF NO.:
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 or PAGE NOS.
 40-42 and 57
 EFF. DATE:
 Proposed Change

						i ropoccu c	nango
Rate or Class of Service	Effect of Proposed Change	Average Number of Customers	Pro Forma Present Rates	Pro	oposed Rates	<u>Amount</u>	<u>%</u>
G-M	Increase	25,304	\$ 19,111,902	\$	19,837,595	\$ 725,693	3.80%
Private FP	Increase	807	852,380		885,155	32,775	3.85%
FP - Hydrants Anheuser-Busch	Increase	5	2,817,166		2,913,234	96,068	3.41%
Contract Milford Contract	Increase	2	862,048		883,221	21,174	2.46%
Contract Charges	No Increase	1	81,000		81,000	-	0.00%
Volumetric Charges	Increase	-	68,551		71,360	2,809	4.10%
Hudson Contract							
Contract Charges	No Increase	1	32,800		32,800	-	0.00%
Volumetric Charges	Increase		290,579		299,554	8,975	3.09%
TOTALS		26,120	\$24,116,426	\$	25,003,919	\$887,494	3.68%

Notes:

The Proposed rates and the amount of the increase is based on the Cost of Service Study. In the Study, a slight difference is noted in the allocation of the proposed revenue vs. the revenue requirement reflected in the rate filing schedules.

Signed by:		
	Bonalyn J. Hartley	
Title:	Vice President - Administration	

Pro Forma Schedule 9 Combined

DOCKET NO: TARIFF NO .:

DW 10-091

DATE FILED: 5 or PAGE NOS. 40-42 and 57 EFF. DATE:

5/6/2010

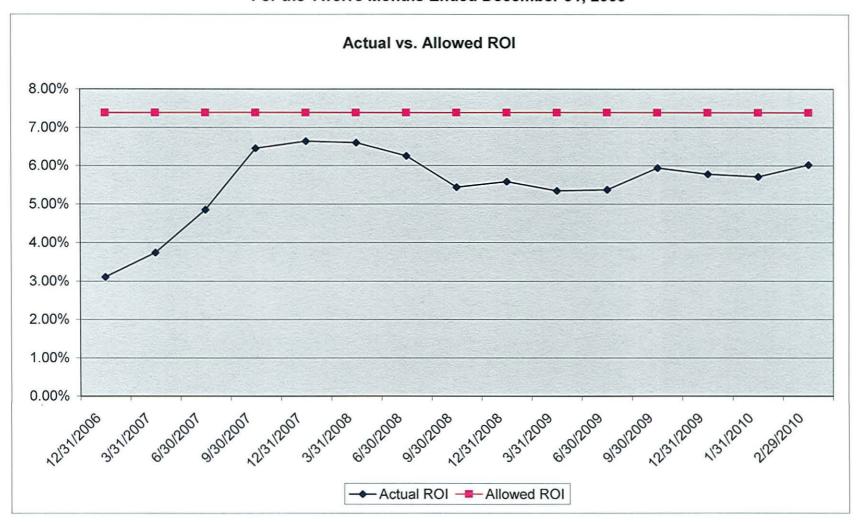
Proposed Change Effect of Average Rate or Class Proposed Number of Pro Forma % of Service Change Customers **Present Rates Proposed Rates** Amount G-M 25.304 \$ 19.111.902 \$ 22.935.608 \$ 3.823.706 20.01% Increase Private FP 807 852,380 1.038,146 185,766 21.79% Increase FP - Hydrants Increase 5 2,817,166 3,048,954 231,788 8.23% Anheuser-Busch 2 Contract 862,048 1,411,322 549,275 63.72% Increase Milford Contract 0.00% No Increase 81,000 81,000 Contract Charges 68.551 88.655 20.105 29.33% Volumetric Charges Increase **Hudson Contract** Contract Charges No Increase 32,800 32,800 \$0 0.00% Volumetric Charges 290,579 283,598 (6.981)-2.40% No Increase TOTALS 26,120 \$24,116,426 \$ 28,920,083 \$4,803,658 19.92%

Notes:

The Proposed rates and the amount of the increase is based on the Cost of Service Study. In the Study, a slight difference is noted in the allocation of the proposed revenue vs. the revenue requirement reflected in the rate filing schedules.

Signed by:		
-	Bonalyn J. Hartley	
Title:	Vice President - Administration	

Pennichuck Water Works, Inc. ROI Historical Trends For the Twelve Months Ended December 31, 2009



Pennichuck Water Works, Inc. ROE Historical Trends For the Twelve Months Ended December 31, 2009

