Unitil Energy Systems, Inc. PUC 308.11 - F-1 Rate of Return

12 Months Ending December 31, 2016

Schedule 1: Calculation of Per Books Rate of Return

Cost of Service	Rol	ling 12 Months	Rate Base	<u>!</u>	Period End
Electric Service Revenue	\$	130,274,271	Utility Plant in Service	\$	294,443,220
Other Operating Revenue		1,912,985	Less: Reserve for Depreciation & Amortization		106,174,178
Total Operating Revenue		132,187,256	Net Utility Plant		188,269,043
Operating Expenses:			Plus:		
Purchased Power	44,186,335		M&S Inventories		1,552,875
Transmission	27,717,022		Cash Working Capital		2,665,955
Distribution	8,719,304		Prepayments		5,449,767
Cust. Accounting & Service		6,213,869			
Admin. & General	9,605,696		Less:		
Depreciation	9,728,469		Deferred Income Taxes		45,505,035
Amortization		4,347,962	Customer Advances		552,389
Taxes-Other Than Income		5,908,910	Customer Deposits		925,740
State & Federal Income Taxes - Adjusted		3,808,669			
Int on Customer Deposits	28,803		Total Rate Base	\$	150,954,476
Total Operating Expenses		120,265,038	Utility Operating Income - Current Cost of Capital	\$	12,408,458
		· · · · · ·	Utility Operating Income - Adjusted	\$	11,239,023
Net Operating Income	\$	11,922,218			
			Operating Income Deficiency (Surplus)	\$	1,169,435
Less: Flow-Through Oper. Inc. (Exc. Lost Base Rev.)		683,195	Income Tax Gross-Up	\$	760,708
			Revenue Deficiency (Surplus)	\$	1,930,143
Net Operating Income - Adjusted	\$	11,239,023		_	
			Return on Rate Base - Actual		7.45%
			Return on Rate Base - Current Cost of Capital		8.22%
			ROE - Actual		8.11%

Schedule 2: Current Cost of Capital	Amount Outstanding		Percent	Weighted	
			Total	Cost Rate	Cost Rate
Common Equity	\$	79,155,139	49.89%	9.67%	4.82%
Preferred Stock Equity	\$	189,300	0.12%	6.00%	0.01%
Long Term Debt	\$	74,000,000	46.64%	7.14%	3.33%
Short Term Debt (a)	\$	5,303,664	3.34%	1.77%	0.06%
Total	\$	158,648,102	100.00%		8.22%

⁽a) Excluding Accrued Revenue and Power Supply Working Capital