NU - NH DIVISION PROPOSED GAS RATE DESIGN

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
			Existing	Weather Normalized Sales			Existing Blocking		Winter		Summer	
	CURRENT RATES	Annual	Customer	Winter	Summer	Total	Winter	Summer	First	Second	First	Second
	(excl Special Contract)	Customers	Charge	(Therms)	(Therms)	Therms	Therms	Therms	Therms	Therms	Therms	Therms
R-5	Residential, Heating	231,691	$9.50	12,231,639	2,976,428	15,208,067	50	50	4,971,511	7,260,128	2,624,516	351,912
R-10	Residential Heating, Low Income	11,451	$9.50	482,863	127,396	610,259	50	50	242,049	240,814	117,711	9,685
	Total Heating	243,142		12,714,502	3,103,824	15,818,326			5,213,560	7,500,942	2,742,227	361,597
				80.38%	19.62%	100.00%			41.00%	59.00%	88.35%	11.65%
R-6	Residential, Non-Heating	19,446	$9.50	228,127	122,103	350,230	10	10	70,726	157,401	69,727	52,377
R-11	Residential Non-Heating, Low Income	391	$9.50	9,831	2,267	12,099	10	10	1,901	7,930	1,390	877
	Total Non-Heating	19,837		237,958	124,371	362,329			72,627	165,332	71,117	53,253
				65.67%	34.33%	100.00%			30.52%	69.48%	57.18%	42.82%
G-40/T-40	Low Annual, High Winter Use	52,989	$18.70	7,240,981	1,269,665	8,510,647	75	75	1,588,347	5,652,635	667,433	602,233
				85.08%	14.92%	100.00%			21.94%	78.06%	52.57%	47.43%
G-50/T-50	Low Annual, Low Winter Use	11,628	$18.70	1,312,559	898,756	2,211,315	75	75	260,414	1,052,146	245,933	652,823
				59.36%	40.64%	100.00%			19.84%	80.16%	27.36%	72.64%
	Total Low Annual Use	64,617		8,553,541	2,168,421	10,721,962			1,848,761	6,704,780	913,366	1,255,056
G-41/T-41	Medium Annual, High Winter Use	6,512	$60.30	8,613,259	2,171,995	10,785,254			8,613,259		2,171,995	
				79.86%	20.14%	100.00%			100.00%		100.00%	
G-51/T-51	Medium Annual, Low Winter Use	2,811	$60.30	2,252,319	1,607,240	3,859,559	1,300	1,000	1,434,978	817,341	1,089,046	518,194
				58.36%	41.64%	100.00%			63.71%	36.29%	67.76%	32.24%
	Total Medium Annual Use	9,322		10,865,578	3,779,236	14,644,814			10,048,238	817,341	3,261,042	518,194
G-42/T-42	High Annual, High Winter Use	361	$254.00	3,971,085	1,492,247	5,463,332			3,971,085		1,492,247	
				72.69%	27.31%	100.00%			100.00%		100.00%	
G-52/T-52	High Annual, Low Winter Use	324	$254.00	6,918,700	4,471,728	11,390,428			6,918,700		4,471,728	
				60.74%	39.26%	100.00%			100.00%		100.00%	
	Total Large Annual Use	685		10,889,785	5,963,975	16,853,759			10,889,785		5,963,976	
	Total	337,603		43,261,365	15,139,825	58,401,190			28,072,970	15,188,394	12,951,727	2,188,101
				74.08%	25.92%	100.00%			64.89%	35.11%	85.55%	14.45%

Notes: Therm Percentage Seasonal to Annual Total — Therm Block Percentages to Seasonal Total

NU - NH DIVISION PROPOSED GAS RATE DESIGN

	(A)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)
							Marginal Cost of Service Results				Proposed	
		Existing Dist Charges Per Therm						Equalized	Revenue	Percent	Increases	Shortfall $
	CURRENT RATES	Winter		Summer		Existing	Existing	ROR	Increase	Increase	Capped @	Allocation
	(excl Special Contract)	First	Second	First	Second	Revenues	ROR	7.24% Rev Req	to Equalize	Equal ROR	19.11%	To Equal ROR
R-5	Residential, Heating	$0.4102	$0.2990	$0.4102	$0.2990	$7,593,268						
R-10	Residential Heating, Low Income	$0.4102	$0.2990	$0.4102	$0.2990	$331,280						
	Total Heating	$0.4102	$0.2990	$0.4102	$0.2990	$7,924,548		$10,010,118	$2,085,570	26.32%	$1,514,049	
R-6	Residential, Non-Heating	$0.4067	$0.3082	$0.4067	$0.3082	$306,530						
R-11	Residential Non-Heating, Low Income	$0.4067	$0.3082	$0.4067	$0.3082	$7,768						
	Total Non-Heating	$0.4067	$0.3082	$0.4067	$0.3082	$314,298		$692,558	$378,260	120.35%	$60,049	
G-40/T-40	Low Annual, High Winter Use	$0.3077	$0.2007	$0.3077	$0.2007	$2,940,545		$4,391,495	$1,450,951	49.34%	$561,815	
G-50/T-50	Low Annual, Low Winter Use	$0.3018	$0.1969	$0.3018	$0.1969	$705,987		$865,862	$159,875	22.65%	$134,885	
	Total Low Annual Use					$3,646,531		$5,257,357	$1,610,826		$696,700	
G-41/T-41	Medium Annual, High Winter Use	$0.1942		$0.1124		$2,309,483		$1,993,722	($315,761)	-13.67%	($315,761)	$908,499
G-51/T-51	Medium Annual, Low Winter Use	$0.1862	$0.1467	$0.1112	$0.0780	$718,100		$578,432	($139,668)	-19.45%	($139,668)	$263,580
	Total Medium Annual Use					$3,027,583		$2,572,153	($455,429)		($455,429)	$1,172,079
G-42/T-42	High Annual, High Winter Use	$0.1725		$0.0964		$920,550		$640,158	($280,392)	-30.46%	($280,392)	$291,707
G-52/T-52	High Annual, Low Winter Use	$0.1262		$0.0653		$1,247,355		$746,294	($501,061)	-40.17%	($501,061)	$340,071
	Total Large Annual Use					$2,167,905		$1,386,452	($781,453)		($781,453)	$631,778
	Total					$17,080,865		$19,918,638	$2,837,773	16.61%	$1,033,915	$1,803,857
									115% cap	1.15	$1,803,857	
									Capped Incr. on Base $$	19.11%	$ Rev shortfall due to cap	

Notes:
(1) Column (Q) includes a booked to billed adjustment shown on Page 3 of 8, Column (AF), Source file
(2) Column (AF) Source file Northern NH Gas accuracy 2010 for Discount Calculation.xls, Annual sheet

NU - NH DIVISION PROPOSED GAS RATE DESIGN

	(A)	(X)	(Y)	(Z)	(AA)	(AB)	(AC)	(AD)	(AE)	(AF)
	CURRENT RATES (excl Special Contract)	Class Increase	Class % Increase to Total Dollars	Target Rev Req for Class	Final Base Percent Increase	Adjustment to Class Increases to Reach 10% Minimum	Embedded COS Results Using Marginal Revenues Proposed Rate of Returns	Existing		Booked to Billed Adjustment
R-5	Residential, Heating									$313
R-10	Residential Heating, Low Income									$19
	Total Heating	$1,514,049	53.35%	$9,438,597	19.11%		10.15%	6.73%		
R-6	Residential, Non-Heating									$17
R-11	Residential Non-Heating, Low Income									-$1
	Total Non-Heating	$60,049	2.12%	$374,348	19.11%		2.39%	-0.16%		
G-40/T-40	Low Annual, High Winter Use	$561,815	19.80%	$3,502,359	19.11%		4.63%	2.24%		$200
G-50/T-50	Low Annual, Low Winter Use	$134,885	4.75%	$840,871	19.11%		6.29%	3.66%		$22
	Total Low Annual Use	$696,700	24.55%	$4,343,231						
G-41/T-41	Medium Annual, High Winter Use	$258,272	9.10%	$2,567,755	11.18%	-$334,466	7.22%	5.73%		$1
G-51/T-51	Medium Annual, Low Winter Use	$91,911	3.24%	$810,011	12.80%	-$32,000	6.36%	4.88%		$0
	Total Medium Annual Use	$350,184	12.34%	$3,377,767						
G-42/T-42	High Annual, High Winter Use	$92,055	3.24%	$1,012,605	10.00%	$80,740	7.23%	5.92%		$0
G-52/T-52	High Annual, Low Winter Use	$124,736	4.40%	$1,372,091	10.00%	$285,726	3.74%	2.76%		$0
	Total Large Annual Use	$216,791	7.64%	$2,384,696						
	Total	$2,837,773	100.00%	$19,918,638	16.61%	$0	7.25%	4.86%		$572
		$2,837,773								

Notes:
(1) Column (X) = Page 2 of 8 Columns (V) + Page 2 of 8 Column (W) + Column (AB)
(2) Column (Z) = Page 2 of 8 Column (Q) + Column (X)
(3) Column (AA) = Column (X) / Page 2 of 8 Column (Q)
(4) Column (AB) Class Revenue Adjustment to 10% Increase
(5) Column (AC) Reference Accounting Workpapers - Rate Design
(6) Column (AD) Reference PMN-1G-2 and 3, Pages 1 and 2, Line 21

NU - NH DIVISION PROPOSED GAS RATE DESIGN

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
				Marginal Cost Study								
	CURRENT & PROPOSED RATES		Existing	@ Company	Proposed	Proposed	Existing Dist Charges Per Therm					
	(excl Special Contract)	Annual	Customer	ROR	Customer	Cust Chg	Winter		Summer		Block Differential	
		Customers	Charge	Cust $ (1)	Charges	Increase	First	Second	First	Second	Winter	Summer
R-5	Residential, Heating	231,691	$9.50		$13.12	38.11%	$0.4102	$0.2990	$0.4102	$0.2990	$0.1112	$0.1112
R-10	Residential Heating, Low Income	11,451	$9.50		$13.12	38.11%	$0.4102	$0.2990	$0.4102	$0.2990	$0.1112	$0.1112
	Total Heating	243,142		$33.95	$13.12		$0.4102	$0.2990	$0.4102	$0.2990		
R-6	Residential, Non-Heating	19,446	$9.50		$13.12	38.11%	$0.4067	$0.3082	$0.4067	$0.3082	$0.0985	$0.0985
R-11	Residential Non-Heating, Low Income	391	$9.50		$13.12	38.11%	$0.4067	$0.3082	$0.4067	$0.3082	$0.0985	$0.0985
	Total Non-Heating	19,837		$33.61	$13.12		$0.4067	$0.3082	$0.4067	$0.3082		
G-40/T-40	Low Annual, High Winter Use	52,989	$18.70	$63.40	$30.00	60.43%	$0.3077	$0.2007	$0.3077	$0.2007	$0.1070	$0.1070
G-50/T-50	Low Annual, Low Winter Use	11,628	$18.70	$63.47	$30.00	60.43%	$0.3018	$0.1969	$0.3018	$0.1969	$0.1049	$0.1049
	Total Low Annual Use	64,617										
G-41/T-41	Medium Annual, High Winter Use	6,512	$60.30	$128.83	$90.00	49.25%	$0.1942		$0.1124			
G-51/T-51	Medium Annual, Low Winter Use	2,811	$60.30	$128.66	$90.00	49.25%	$0.1862	$0.1467	$0.1112	$0.0780	$0.0395	$0.0332
	Total Medium Annual Use	9,322										
G-42/T-42	High Annual, High Winter Use	361	$254.00	$389.84	$300.00	18.11%	$0.1725		$0.0964			
G-52/T-52	High Annual, Low Winter Use	324	$254.00	$395.10	$300.00	18.11%	$0.1262		$0.0653			
	Total Large Annual Use	685										
	Total	337,603										

Note:
(1) Schedule PMN-2G-2, Page 1 of 2, Lines 6 and 9

NU - NH DIVISION PROPOSED GAS RATE DESIGN

	(A)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)
	CURRENT & PROPOSED RATES	Proposed Charges										
	(excl Special Contract)	Winter		Summer		Block Differential			Average			
		First	Second	First	Second	Winter	Summer		Rate			
R-5	Residential, Heating	$0.4213	$0.3658	$0.4213	$0.4213	$0.0555	$0.0000					
R-10	Residential Heating, Low Income	$0.4213	$0.3658	$0.4213	$0.4213	$0.0555	$0.0000					
	Total Heating	$0.4213	$0.3658	$0.4213	$0.4213				$0.3950			
		2.7%	22.3%	2.7%	40.9%							
R-6	Residential, Non-Heating	$0.3149	$0.3149	$0.3149	$0.3149	$0.0000	$0.0000					
R-11	Residential Non-Heating, Low Income	$0.3149	$0.3149	$0.3149	$0.3149	$0.0000	$0.0000					
	Total Non-Heating	$0.3149	$0.3149	$0.3149	$0.3149				$0.3149			
		-22.6%	2.2%	-22.6%	2.2%							
G-40/T-40	Low Annual, High Winter Use	$0.2580	$0.2126	$0.2580	$0.2126	$0.0454	$0.0454		$0.2243			
		-16.2%	5.9%	-16.2%	5.9%							
G-50/T-50	Low Annual, Low Winter Use	$0.2580	$0.2126	$0.2580	$0.2126	$0.0454	$0.0454					
		-14.5%	8.0%	-14.5%	8.0%							
	Total Low Annual Use											
G-41/T-41	Medium Annual, High Winter Use	$0.1926		$0.1487					$0.1837			
		-0.8%		32.3%								
G-51/T-51	Medium Annual, Low Winter Use	$0.1766	$0.1416	$0.1266	$0.0966	$0.0350	$0.0300		$0.1443			
		-5.2%	-3.5%	13.8%	23.8%							
	Total Medium Annual Use											
G-42/T-42	High Annual, High Winter Use	$0.1847		$0.1146					$0.1655			
		7.1%		18.9%								
G-52/T-52	High Annual, Low Winter Use	$0.1414		$0.0663					$0.1119			
		12.0%		1.5%								
	Total Large Annual Use											
	Total											

Note:
Block Percentages are Proposed Increase to Existing Charges from Page 2 of 8

NU - NH DIVISION PROPOSED GAS RATE DESIGN

	(A)	(X)	(Y)	(Z)	(AA)	(AB)	(AC)	(AD)	(AE)	(AF)
	CURRENT & PROPOSED RATES	Proposed Revenue Recovery					Total			Variance
	(excl Special Contract)	Customer	Winter Therms		Summer Therms		Revenues		Class Target	due to
		Charges	First Block	Second Block	First Block	Second Block	@ Proposed		Rev Req	Rounding
							Rates			
R-5	Residential, Heating	$3,039,786	2,094,498	$2,655,755	1,105,709	$148,260	$9,044,008			
R-10	Residential Heating, Low Income	$150,242	101,975	$88,090	49,591	$4,080	$393,979			
	Total Heating	$3,190,028	$2,196,473	$2,743,845	$1,155,300	$152,341	$9,437,987		$9,438,597	-$610
		33.80%	23.27%	29.07%	12.24%	1.61%	100.00%			
R-6	Residential, Non-Heating	$255,132	22,272	$49,566	21,957	$16,493	$365,419			
R-11	Residential Non-Heating, Low Income	$5,132	599	$2,497	438	$276	$8,942			
	Total Non-Heating	$260,264	$22,870	$52,063	$22,395	$16,770	$374,362		$374,348	$14
		69.52%	6.11%	13.91%	5.98%	4.48%	100.00%			
G-40/T-40	Low Annual, High Winter Use	$1,589,662	409,793	$1,201,750	172,198	$128,035	$3,501,437			
		45.40%	11.70%	34.32%	4.92%	3.66%	100.00%			
G-50/T-50	Low Annual, Low Winter Use	$348,836	67,187	$223,686	63,451	$138,790	$841,950			
		41.43%	7.98%	26.57%	7.54%	16.48%	100.00%			
	Total Low Annual Use	$1,938,498	476,980	$1,425,436	235,648	$266,825	$4,343,388		$4,343,231	$157
G-41/T-41	Medium Annual, High Winter Use	$586,052	1,658,914		322,976		$2,567,941		$2,567,755	$186
		22.82%	64.60%		12.58%		100.00%			
G-51/T-51	Medium Annual, Low Winter Use	$252,958	253,417	$115,735	137,873	$50,058	$810,041		$810,011	$30
		31.23%	31.28%	14.29%	17.02%	6.18%	100.00%			
	Total Medium Annual Use	$839,009	$1,912,331	$115,735	$460,849	$50,058	$3,377,982			
G-42/T-42	High Annual, High Winter Use	$108,290	$733,459		$171,012		$1,012,761		$1,012,605	$156
		10.69%	72.42%		16.89%		100.00%			
G-52/T-52	High Annual, Low Winter Use	$97,100	$978,304		$296,476		$1,371,880		$1,372,091	-$211
		7.08%	71.31%		21.61%		100.00%			
	Total Large Annual Use	$205,390	$1,711,764		$467,487		$2,384,641			
	Total	$6,433,190	$6,320,418	$4,337,079	$2,341,679	$485,993	$19,918,359		$19,918,638	-$279
		32.30%	31.73%	21.77%	11.76%	2.44%	100.00%			

Note:
Revenue Recovery by Proposed Rate Components as a Percent of Total Proposed Revenues.

NU - NH DIVISION PROPOSED GAS RATE DESIGN

Line		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
90					Cost Study			Accounting Cost of Serivce Results			Marginal Cost of Serivce Results		
91		**CURRENT & PROPOSED RATES**		Existing	@ Company	Proposed	Proposed	@ 7.24% Equalized ROR (1)			@ 7.24% Equalized ROR (2)		
92		(excl Special Contract)	Annual	Customer	ROR	Customer	Cust Chg	Revenue	Percent	Customer	Revenue	Percent	Customer
93			Customers	Charge	Cust $	Charges	Increase	Total $	Increase	$/Mo/Cust	Total $	Increase	$/Mo/Cust
95	R-5	Residential, Heating	231,691	$9.50		$13.12	38.11%						
96	R-10	Residential Heating, Low Income	11,451	$9.50		$13.12	38.11%						
97		Total Heating	243,142		$33.95			$8,200,920	3.49%	$21.11	$10,010,118	26.32%	$33.95
99	R-6	Residential, Non-Heating	19,446	$9.50		$13.12	38.11%						
100	R-11	Residential Non-Heating, Low Income	391	$9.50		$13.12	38.11%						
101		Total Non-Heating	19,837		$33.61			$485,700	54.53%	$21.30	$692,558	120.35%	$33.61
103	G-40/T-40	Low Annual, High Winter Use	52,989	$18.70	$63.40	$30.00	60.43%	$4,088,102	39.03%	$46.40	$4,391,495	49.34%	$63.40
104	G-50/T-50	Low Annual, Low Winter Use	11,628	$18.70	$63.47	$30.00	60.43%	$887,727	25.74%	$46.35	$865,862	22.65%	$63.47
105		Total Low Annual Use	64,617										
107	G-41/T-41	Medium Annual, High Winter Use	6,512	$60.30	$128.83	$90.00	49.25%	$2,570,972	11.32%	$90.01	$1,993,722	-13.67%	$128.83
108	G-51/T-51	Medium Annual, Low Winter Use	2,811	$60.30	$128.66	$90.00	49.25%	$857,346	19.39%	$90.97	$578,432	-19.45%	$128.66
112		Proposed Revenue Recovery											
114		Total Medium Annual Use	9,322										
116	G-42/T-42	High Annual, High Winter Use	361	$254.00	$389.84	$300.00	18.11%	$1,013,372	10.08%	$197.54	$640,158	-30.46%	$389.84
117	G-52/T-52	High Annual, Low Winter Use	324	$254.00	$395.10	$300.00	18.11%	$1,814,499	45.47%	$142.22	$746,294	-40.17%	$395.10
118		Total Large Annual Use	685										
120		Total	337,603					$19,918,638	16.61%		$19,918,638	16.61%	

Notes:
(1) Accounting Cost - Schedule PMN-1G-6, Pages 5 and 6 of 8, Lines 19 and 21.
(2) Marginal Cost - Schedule PMN-2G-2, Table 14, Page 1 of 2, Lines 6 and 9.

NU - NH DIVISION PROPOSED GAS RATE DESIGN

		(A)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)
90													
91		**CURRENT & PROPOSED RATES**		Proposed Charges						Proposed Charges			
92		(excl Special Contract)		Winter		Summer				Block Differential			
93				First	Second	First	Second	Total		Winter	Summer	First	Second
94													
95	R-5	Residential, Heating											
96	R-10	Residential Heating, Low Income											
97		Total Heating											
98													
99	R-6	Residential, Non-Heating											
100	R-11	Residential Non-Heating, Low Income											
101		Total Non-Heating											
102													
103	G-40/T-40	Low Annual, High Winter Use											
104	G-50/T-50	Low Annual, Low Winter Use											
105		Total Low Annual Use											
106													
107	G-41/T-41	Medium Annual, High Winter Use											
108	G-51/T-51	Medium Annual, Low Winter Use		1,434,978	817,341	1,089,046	518,194	3,859,559					
109				0.08	0.045	0.03							
110				$114,798	$36,780	$32,671		$184,250	$557,054				
111				0.1766	0.1416	0.1266	0.0966		$372,804	0.0350	0.0300	0.0500	0.0450
112		Proposed Revenue Recovery		$253,417	$115,735	$137,873	$50,058	$557,083					
113								$557,083					
114		Total Medium Annual Use											
115													
116	G-42/T-42	High Annual, High Winter Use											
117	G-52/T-52	High Annual, Low Winter Use											
118		Total Large Annual Use											
119													
120		Total											
121													
122													
123													
124													
125													
126													

Table - 1
Northern Utilities- New Hampshire
Marginal Cost Study

Production Investment Summary-Modified Peaker

Line No.	Description		Company Total
	(1)		(2)
	COST FOR REINFORCEMENT		
1			
2	Current Cost of Capacity Expansion	{1}	$0.00
3			
4			
5			
6	First Year of Capacity Shortfall	{2}	2027
7			
8			
9	Base year of study		2010
10			
11			
12	Years Before Additions	(6)-(9)	17
13			
14	After Tax Cost of Capital	{3}	6.29%
15	Inflation Rate	{6}	2.30%
16			3.99%
17			
18			
19	Present Worth of Capacity Cost		
20	(2)*[1+(15)]^(12)/[1+(14)]^(12)	{4}	$0.00
21			
22	Percentage Related to Transportation	{5}	0.0%
23			
24	**Transportation Related Investment**	(20)*(22)	**$0.00**
25			
26	**Gas Supply Related Plant Investment**	(20)*[1-(22)]	**$0.00**

NOTES:
1 Source: Table - 1, page 2.
2 Source: Prior Study
3 Source: Table - 8, page 1.
4 Cost in today's dollars sufficient to purchase the designated unit in the first year of capacity shortfall allowing for interest and price escalation.
5 Source: Table - 1, page 3.
6 Inflation Net of Technical Progress

Table - 1
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Marginal Production Plant Investment

Line No.	Description				Costs
	(1)				(2)
1	CONSTRUCTION OF PROPANE PROJECT ALTERNATIVE FACILITY				
2					
3	Addition of a New Facility:		{1}		
4	Storage Tanks				
5	Refrigeration Systems				
6	Delivery Systems				
7	Air Deliver Systems				
8	Air Metering & Regulating (M&R) Station				
9	Pipeline Connection to Project				
10	Pipeline Connection from Project				
11	Land Costs				
12	Indirect Costs				0
13	Total Direct Costs				$0
14	KeySpan Overhead				0
15	Total Capital Costs				$0
16	O&M Costs				0
17	Total Project Costs				$0
18	Price escalation	{2}	2.3%	2 years	4.7%
19					
20	Cost of Facility		(17)*[1+(18)]		$0
21					
22	Total Project Capacity		{1}		25,200
23					
24	Unit Cost of Expansion		(20)/(22)		$0.00
25					
26	Estimated Reserves for Supplemental Capacity		{3}		0%
27					
28	**Adj Cost of Production Capacity, $/Therm**		(24)*[1+(26)]		**$0.00**
29					
30	Percent Transportation-related		{4}		0.0%
31					
32	Distribution related		(28)*(30)		$0.00
33	Production related		(28)-(32)		$0.00

NOTES:
1
2
3

Table - 1
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Distribution-related Production Plant Investment

Line No.	Plant Name	Location	Type	Rating, mscfg	Heat Rate	Hours per Day	Design Day Therms
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Capacity of Down Stream Assets			{1}			
2							
3				#DIV/0!	-	-	-
5				#DIV/0!	-	-	-
6				#DIV/0!	-	-	-
7				#DIV/0!	-	-	-
8				#DIV/0!	-	-	-
9				#DIV/0!	-	-	-
10	Total			#DIV/0!	#DIV/0!		0
11							
12	Production Requirements in lieu of Distribution investments						
13	Output Required for Pressure Support						
14							
15				{2}			
16					0	0	0
17		Total		0			0
18							
19							
20	Production Allocated to Pressure Support Function				(17)/(10)	0.0%	
21							
22	Production Allocated to Supply Function				100%-(20)	100.0%	

NOTES:
1 Source: Company Distribution Engineering personnel.
2

Table - 2
Northern Utilities- New Hampshire
Marginal Cost Study

Summary of Estimates for Distribution Capacity Cost

Line No.	**Description**				**Quantity**
	(1)				(2)
1					
2	**PROSPECTIVE ADDITIONS**				
3	REINFORCEMENT (From Stoner Analysis)	{1}			
4	Estimate of upgrades				
5	to existing facilities.			$2,213,750	
6	Estimated Additional Load, Therm/Design Day			107,977	
7	Average Cost for Upgrades	(5)/(6)		$20.50	
8	Trended Cost for Upgrades	{1}			$20.50
9					
10	NEW MAIN EXTENSIONS				
11	Unit Cost for New Main Extensions	{2}			$71.96
12					
13	UNIT COSTS				
14	Unit Costs per Design Day Therm for Prospective Additions			(8) + (11)	<u>$92.46</u>
15					
16	**<u>ALTERNATE ANALYSES</u>**				
17	A - HISTORICAL INVESTMENTS	{3}			
18	CAPACITY INCREMENT - 1988 to 2010				
19	2010 Design Day Sendout			569,539	
20	1996 Design Day Sendout			519,260	
21	Increase in Design Day Sendout	(22)-(21)			50,279
22					
23	PLANT INVESTMENTS				
24	Investments to Increase Capacity, Current $'s				
25	Total Investment	1989	2010		22,050,296
26					
27	UNIT COST				
28	Avg Unit Cost for Historical Investments	(27)/(23)			<u>$438.56</u>
29					
30					
31	B - TRENDED COST APPROXIMATION	{4}			
32	Trended Cost Approximation (Slope of				
33	Regression Line)				<u>$91.70</u>
34					
35	For purposes of further study, assume long run marginal				
36	costs will be estimated by prospective additions, line (14).			**<u>$92.46</u>**	/Design Day Therms

NOTES:
1 Source: Table - 2, Page 4.
2 Source: Table - 2, Page 5.
3 Source: Cost data from Table - 2, Page 2.
4 Source: Table - 2, Page 6.

Table - 2
Northern Utilities- New Hampshire
`

Historical Plant Investment Data - Capacity-Related

Line No.	Description		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
	DISTRIBUTION INVESTMENT		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	PLANT BALANCES													
1	375- Distribution Structures		$0	$1,907,261	$1,946,802	$1,970,765	$1,977,191	$2,011,929	$2,078,973	$2,092,137	$2,100,422	$2,172,031	$2,203,295	$2,257,157
2	376- Mains		9,396,338	10,797,337	12,353,883	15,264,009	19,514,509	22,527,044	24,376,933	27,050,294	30,884,264	36,225,118	37,568,970	39,178,319
3	378- Distribution M&R Equip		295,732	345,623	421,515	544,570	587,436	672,030	736,918	857,679	938,019	1,051,946	1,137,147	1,195,858
4	382- Meter Installations		1,408,166	1,548,984	1,797,248	2,190,979	2,582,968	2,860,471	3,138,624	3,531,975	3,855,111	4,161,512	4,583,446	4,996,024
5	383- Dist House Regulators		0	0	0	0	0	0	0	0	0	0	0	0
6	386- Dist. Wtr Htr & Conv. Brn		156,516	207,275	378,308	653,700	1,048,110	1,342,183	1,657,512	1,865,584	1,953,335	2,139,929	3,359,028	3,377,491
7	Net Capacity-related													
8	Distribution Plant													
9	Balances Sum (1) thru (6)		11,256,752	14,806,481	16,897,757	20,624,023	25,710,215	29,413,657	31,988,960	35,397,669	39,731,151	45,750,536	48,851,887	51,004,849
10														
11	Net Plant Additions {2}			3,549,728	2,091,276	3,726,267	5,086,192	3,703,442	2,575,303	3,408,709	4,333,482	6,019,386	3,101,350	2,152,962
12														
13														
14	Handy-Whitman - Jan 1	{3}	247	261	277	283	294	296	307	313	319	325	333	341
15	Index - Mains - Jul 1	{3}	247	261	280	289	299	302	310	315	322	330	337	344
16	Wtd. Avg. Annual Index		250.50	265.00	280.00	288.75	297.00	301.75	310.00	315.50	322.00	329.50	337.00	343.75
17	(14i)/4+(15i)/2+(14j)/4													
18														
19	Current Cost of Additions													
20	(11)*(16)/Current Index		$0	$6,724,391	$3,749,359	$6,478,219	$8,596,863	$6,161,153	$4,170,329	$5,423,684	$6,755,925	$9,170,657	$4,619,816	$3,144,107
21														
22	Cumulative Net Additions		0	6,724,391	10,473,750	16,951,969	25,548,832	31,709,985	35,880,314	41,303,997	48,059,922	57,230,579	61,850,395	64,994,502
23														
24	Correction Factor for Replm'ts	{2}	21.0%											
25														
26	**Cum Growth Related Invest**		0	1,412,125	2,199,492	3,559,921	5,365,266	6,659,111	7,534,882	8,673,858	10,092,605	12,018,447	12,988,610	13,648,874

NOTES:
1 Source: Annual Reports
2 Source: Table 2 page 5
3 Hand-Whitman for Plastic Mains

Table - 2
Northern Utilities- New Hampshire
Marginal Cost Study

Historical Plant Investment Data - Capacity-Related

Line No.	Description		1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	DISTRIBUTION INVESTMENT		(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)		
	PLANT BALANCES													
1	375- Distribution Structures		$2,259,457	$2,259,457	$2,235,888	$2,250,950	$2,250,950	$2,295,667	$2,295,667	$2,332,194	$2,332,194	$2,332,194	$2,334,042	$2,820,320
2	376- Mains		40,532,171	42,573,536	43,946,403	45,608,517	47,288,473	49,392,846	50,531,680	54,591,098	57,186,366	59,131,775	59,604,088	65,458,022
3	378- Distribution M&R Equip		1,262,572	1,397,118	1,449,677	1,467,946	1,553,479	1,611,260	1,636,689	1,744,560	1,770,112	1,770,112	1,770,570	1,787,578
4	382- Meter Installations		5,445,660	5,767,414	6,202,545	6,771,415	7,315,947	7,771,080	8,360,751	9,196,256	9,814,274	10,622,593	10,703,831	12,313,745
5	383- Dist House Regulators		6,776	10,520	43,097	86,332	118,546	158,413	185,195	185,195	185,195	185,195	185,195	222,731
6	386- Dist. Wtr Htr & Conv. Brn		3,425,650	3,520,935	3,497,800	3,538,176	3,589,462	3,052,832	2,868,870	2,307,938	2,362,713	2,444,161	2,447,385	2,523,018
7	Net Capacity-related													
8	Distribution Plant													
9	Balances Sum (1) thru (6)		52,932,285	55,528,980	57,375,410	59,723,337	62,116,857	64,282,099	65,878,851	70,357,241	73,650,854	76,486,030	77,045,113	85,125,415
10														
11	Net Plant Additions {2}		1,927,436	2,596,695	1,846,430	2,347,927	2,393,520	2,165,242	1,596,753	4,478,390	3,293,613	2,835,176	559,083	8,080,302
12														
13														
14	Handy-Whitman - Jan 1	{3}	346	354	364	369	376	389	411	433	460	480	514	502
15	Index - Mains - Jul 1	{3}	351	357	367	376	379	394	421	440	465	486	516	502
16	Wtd. Avg. Annual Index		350.50	358.00	366.75	374.25	380.75	397.00	421.50	443.25	467.50	491.50	512.00	502.00
17	(14i)/4+(15i)/2+(14j)/4													
18														
19	Current Cost of Additions													
20	(11)*(16)/Current Index		$2,760,551	$3,641,176	$2,527,356	$3,149,390	$3,155,738	$2,737,913	$1,901,708	$5,071,972	$3,536,671	$2,895,744	$548,163	$8,080,302
21														
22	Cumulative Net Additions		67,755,053	71,396,229	73,923,585	77,072,975	80,228,713	82,966,625	84,868,333	89,940,305	93,476,976	96,372,721	96,920,884	105,001,186
23														
24	Correction Factor for Replm'ts	{2}												
25														
26	**Cum Growth Related Invest**		14,228,591	14,993,240	15,523,986	16,185,359	16,848,065	17,423,028	17,822,388	18,887,504	19,630,207	20,238,314	20,353,429	22,050,296

NOTES:
1 Source: Annual Reports
2 Source: Table 2 page 5
3 Hand-Whitman for Plastic Mains

Table - 2
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Capacity Related Investment - Distribution Reinforcement

Line No.	**Year**		**Peak Vol**	**Reinf Cost Current $**	**Reinf Cost Constant $**	**Cumulative Total**
	(1)		(2)		(3)	(4)
1	INVESTMENT FOR REINFORCEMENT	{1}{3}				
2	2011		553,465		1,935,000	1,935,000
3	2012		564,534		0	1,935,000
4	2013		575,825		0	1,935,000
5	2014		587,341		0	1,935,000
6	2015		599,088		0	1,935,000
7	2016		611,070		300,000	2,235,000
8	2017		623,291		0	2,235,000
9	2018		635,757		0	2,235,000
10	2019		648,472		1,913,750	4,148,750
11	2020		661,442		0	4,148,750
12						
13						
14	Total Reinforcement Cost		107,977		$2,213,750	
15						
16						
17	**REGRESSION RESULTS**				Cum Invest Col. (4) vs Peak Vol Col. (2)	
18	Slope				22.84550	
19	Y Intercept				(11,451,504.46)	
20	Coefficent of Determination (RSQR)				66.42%	
21	t-value				3.7	
22						
23	Regression Estimate		(18)		$22.8455	
24						
25	Incremental Average Cost	(14), col. (3) / col. (2)			$20.50	
26						
27	UNIT COSTS FOR REINFORCEMENT					
28	$'s per Design Day Therms		{3}		$20.50	

NOTES:
1 Baseline forecast used to develop marginal
distribution investment taken from engineer's estimates.
2 Results of Stoner model which identifies pressure problems on design hours.
Areas with identified pressure deficiencies are reinforced, based on engineer's
assessment of needed improvements. All such cost estimates based on test year costs.
3 Regression results are insufficiently robust to support the estimate of marginal costs.
The incremental average cost was used for Marginal Cost.

Table - 2
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Distribution Main Extension Investment

Line No.	Year	Installed Footage	Cumulative Footage	Cost	Cost per Foot	Cost Index	Costs in 2010 $'s	Costs Per Foot	Cum Investm't	Design Day Demand
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
					(3)/(1)		(3)*(5)	(6)/(1)		
		{1}		{2}		{3}				
1	1988	16,390		240,170						
2	1989	11,838	11,838	247,615	$20.92	1.793	443,939	$37.50	443,939	0
3	1990	22,623	34,461	501,905	$22.19	1.739	872,576	$38.57	1,316,515	0
4	1991	26,544	61,005	727,250	$27.40	1.690	1,229,223	$46.31	2,545,738	0
5	1992	23,224	84,229	459,663	$19.79	1.664	764,709	$32.93	3,310,446	0
6	1993	10,953	95,182	338,540	$30.91	1.619	548,216	$50.05	3,858,662	0
7	1994	18,744	113,926	472,382	$25.20	1.591	751,619	$40.10	4,610,281	0
8	1995	19,362	133,288	661,359	$34.16	1.559	1,031,063	$53.25	5,641,344	0
9	1996	20,071	153,359	722,482	$36.00	1.524	1,100,716	$54.84	6,742,060	519,260
10	1997	13,226	166,585	486,009	$36.75	1.490	723,965	$54.74	7,466,025	534,600
11	1998	10,551	177,136	303,980	$28.81	1.460	443,921	$42.07	7,909,947	541,340
12	1999	14,155	191,291	402,888	$28.46	1.432	577,033	$40.77	8,486,979	525,529
13	2000	12,205	203,495	338,004	$27.69	1.402	473,960	$38.83	8,960,939	520,249
14	2001	8,858	212,353	317,408	$35.83	1.369	434,461	$49.05	9,395,400	517,753
15	2002	5,178	217,531	276,364	$53.38	1.341	370,701	$71.60	9,766,101	528,031
16	2003	5,719	223,250	226,109	$39.54	1.318	298,114	$52.13	10,064,215	538,347
17	2004	10,312	233,561	373,000	$36.17	1.264	471,652	$45.74	10,535,867	567,560
18	2005	8,709	242,271	379,781	$43.61	1.191	452,314	$51.94	10,988,181	545,734
19	2006	12,310	254,580	594,114	$48.26	1.133	672,860	$54.66	11,661,041	512,792
20	2007	6,682	261,262	372,119	$55.69	1.074	399,580	$59.80	12,060,621	571,784
21	2008	8,611	269,873	483,155	$56.11	1.021	493,477	$57.31	12,554,097	582,530
22	2009	3,211	273,085	316,309	$98.49	0.980	310,131	$96.57	12,864,228	565,572
23	2010	4,149	277,234	257,645	$62.10	1.000	257,645	$62.10	13,121,874	569,539
24										
25	Totals	293,624		9,498,249	$32.35		13,121,874	$44.69		
26										
27	REGRESSION RESULTS									
28							Cumulative Additions col. (8) vs Design Day col. (9)			
29	Slope						$59.5545			
30	Y Intercept						($22,148,884.4)			
31	Coefficent of Determination (RSQR)						46.08%			
32	t Statistic						3.3			
33										
34							$'s / DDMMBtu			
35	Trended Cost Per Design Day Therms						$59.55			
36										
37	MARGINAL COST ESTIMATES									
38										
39	Trended Cost Per Design Day Therms		(27)*(28)		$59.55					
40										
41	Average Cost Per Design Day Therms									
42	1996-2010				$126.89					
43	2001-2010				$71.96					
44	2005-2010				$89.63					
45	**Marginal Cost for Main Additions**			{4}	**$71.96**					

NOTES:
1 Source: Total annual new footage installed less footage retired from accounting records.
2 Source: Plant accounting records.
3 Source: Handy Whitman Index of Plastic Mains
4 Regression results are insufficiently robust to support the estimate of marginal costs. Since 2009 and 2010 installed footage is peculiar a 10 year average was utilized instead of a recent 5 year average cost.

Table - 2
Northern Utilities- New Hampshire
Marginal Cost Study

Regression Analysis of Distribution Capacity Costs

Line No.	Year	Total Mains Investment (2010 $)	Mains Investment for Growth (2010 $)	Ratio	Total Capacity Related Net Distribution Investment	Growth Related Distribution Investment	Cumulative Investment	Design Day Sendout
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
		{1}	{2}	(2)/(1)	{3} {4}	(3)*(4)		
1	1989	2,790,664	443,939	16%	3,749,359	596,448	596,448	0
2	1990	5,059,336	872,576	17%	6,478,219	1,117,289	1,713,737	0
3	1991	7,184,348	1,229,223	17%	8,596,863	1,470,901	3,184,637	0
4	1992	5,011,739	764,709	15%	6,161,153	940,090	4,124,728	0
5	1993	3,126,749	548,216	18%	4,170,329	731,188	4,855,915	0
6	1994	4,253,653	751,619	18%	5,423,684	958,363	5,814,278	0
7	1995	5,977,182	1,031,063	17%	6,755,925	1,165,395	6,979,674	0
8	1996	8,136,900	1,100,716	14%	9,170,657	1,240,557	8,220,231	519,260
9	1997	2,001,821	723,965	36%	4,619,816	1,670,772	9,891,003	534,600
10	1998	2,350,235	443,921	19%	3,144,107	593,871	10,484,874	541,340
11	1999	1,939,040	577,033	30%	2,760,551	821,503	11,306,377	525,529
12	2000	2,862,472	473,960	17%	3,641,176	602,896	11,909,273	520,249
13	2001	1,879,153	434,461	23%	2,527,356	584,326	12,493,598	517,753
14	2002	2,275,068	370,701	16%	3,149,390	513,164	13,006,762	528,031
15	2003	2,214,938	298,114	13%	3,155,738	424,739	13,431,501	538,347
16	2004	2,660,946	471,652	18%	2,737,913	485,294	13,916,795	567,560
17	2005	1,356,333	452,314	33%	1,901,708	634,187	14,550,982	545,734
18	2006	4,597,468	672,860	15%	5,071,972	742,305	15,293,287	512,792
19	2007	2,786,791	399,580	14%	3,536,671	507,100	15,800,387	571,784
20	2008	1,986,969	493,477	25%	2,895,744	719,177	16,519,564	582,530
21	2009	463,089	310,131	67%	548,163	367,106	16,886,670	565,572
22	2010	5,853,934	257,645	4%	8,080,302	355,633	17,242,303	569,539
23								
24	Correction Factor for Replacements {4}			21.0%				
25								
26								
27								
28								
29	REGRESSION RESULTS						Investment col. (6) vs Design Day col. (7)	
30	Slope =						$78.73288	
31	Y Intercept =						($29,332,064.2)	
32	Coefficent of Determination (RSQR)						45.04%	
33	t Probability						3.3	
34								
35	MARGINAL COST ESTIMATES							
36	Trended Cost Per Design Day Therms						$78.73	
37								
38	Average Cost Per Design Day Therms							
39	1996-2010						$179.44	
40	2001-2010						$91.70	
41	2005-2010						$113.06	
42								
43								
44	**Marginal cost estimate (29)*(35) {5}**				**$91.70**			

NOTES:
1. Source: Successive Differences in Table 2, page 2, line 3 adjusted by Handy Whitman Index
2. Source: Table 2, Page 5
3. Source: Table - 2, Pages 2 & 3.
4. Based on the average of the ratios (mains extension investments over mains total investment)
5. This estimate is provided for comparison purposes only. Refer to pages 4 & 5 of this table for the development of a more accurate estimate, eliminating the error associated with estimating replacements.

Table - 3
Northern Utilities- New Hampshire
Marginal Cost Study

Services and Meters Investment

Line No.	Description		--------- Residential ---------		---------- Small C&I ----------		-------- Medium C&I --------		-------- Large C&I ----------	
			ResNonHt&LI R-6&R-11	**ResHt&LI R-5&R-10**	**SmHiW G-40**	**SmLoW G-50**	**MdHiW G-41**	**MdLoW G-51**	**LgHiW G-42**	**LgLoW G-52**
			(1)	(2)	(4)	(5)	(6)	(7)	(8)	(9)
1	**SERVICE COSTS**									
2										
3										
4	Representative Cost	{1}	$4,137	$4,137	$5,045	$5,045	$7,424	$7,424	$34,416	$34,416
5										
6										
7										
8	Services per Customer	{2}	0.73	0.73	0.73	0.73	1.00	1.00	1.00	1.00
9										
10										
11										
12	**Average Service Cost per Cust.**		**$3,035**	**$3,035**	**$3,702**	**$3,702**	**$7,424**	**$7,424**	**$34,416**	**$34,416**
13	(4)*(8)									
14										
15										
16	**METER COSTS**									
17										
18										
19	Current Unit Cost for Metering	{3}	$459	$459	$3,089	$3,089	$6,746	$6,746	$12,000	$12,000
20										
21										
22										
23	Customer Count	{4}								
24										
25										
26	Meters per Customer		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27										
28										
29										
30	**Avg Metering Cost per Cust.**		**$461**	**$461**	**$3,101**	**$3,101**	**$6,772**	**$6,772**	**$12,046**	**$12,046**
31	(19)*(26)									

NOTES:

1 Source: Typical service costs as estimated by the Engineering Department as 2010 costs including overhead loading.
2 Source: Services per Meter computed by assigning one service to each medium and large C&I customer and computing the ratio of remaining services to the total of residential and small C&I customers.
3 Source: Replacement Cost New Analysis including an allowance for spare meters.

Table - 4
Northern Utilities- New Hampshire
Marginal Cost Study

Summary of Marginal Commodity Costs

Line No.	Description	--------- Residential ---------		---------- Small C&I ----------		-------- Medium C&I --------		-------- Large C&I ----------		Total Company
		ResNonHt&LI R-6&R-11	ResHt&LI R-5&R-10	SmHiW G-40	SmLoW G-50	MdHiW G-41	MdLoW G-51	LgHiW G-42	LgLoW G-52	
	LOAD WEIGHTED MARGINAL COMMODITY	(1)	(2)	(3)	(5)	(6)	(7)	(8)	(9)	(10)
1										
2										
3										
4		**MARGINAL COMMODITY COSTS NOT COMPUTED FOR DISTRIBUTION MARGINAL COST STUDY**								
5										
6										
7										
8										
9										
10										

Table - 4
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Capacity Related Production Expense

Line No.	Year	Total Capacity Related Expenses	Cost Index	Expense 2010 Dollars	Design Day Sendout, Therm	Average Cost per Design Day Therm
	(1)	(2)	(3)	(4)	(5)	(6)
		{1}				
1						
2						
3						
4						
5						
6						
7						
8						
9	1997	63,064	1.3086	82,528	519,260	0.16
10	1998	54,851	1.2940	70,979	534,600	0.13
11	1999	52,127	1.2753	66,476	541,340	0.12
12	2000	23,619	1.2483	29,483	525,529	0.06
13	2001	20,574	1.2207	25,114	520,249	0.05
14	2002	17,212	1.2012	20,675	517,753	0.04
15	2003	20,754	1.1759	24,404	528,031	0.05
16	2004	28,986	1.1435	33,144	538,347	0.06
17	2005	21,038	1.1065	23,279	567,560	0.04
18	2006	29,043	1.0716	31,123	545,734	0.06
19	2007	27,962	1.0410	29,108	512,792	0.06
20	2008	20,111	1.0187	20,487	571,784	0.04
21	2009	5	1.0095	5	582,530	0.00
22	2010	6,964	1.0000	6,964	565,572	0.01
23						
24	**REGRESSION RESULTS**				Expense (4)	Avg Cost (6)
25					vs Demand (5)	vs Year (1)
26	Slope =				-0.48443	-0.00897
27	Y Intercept =				295100.6159	18.0370
28	Coefficent of Determination (R**2)				21.38%	68.97%
29	t Value				(1.8)	(5.2)
30						
31	**MARGINAL COST ESTIMATES**					
32	Trended Cost Per Design Day Therms				($0.48)	
33	Time Series Predicted Avg Cost (2008*slope)+intercept					($0.01)
34						
35	Average Cost Per Design Day Therms					
36	1996-2010					$0.06
37	2001-2010					$0.04
38	2005-2010					$0.03
39	Current Average Cost per Design Day Therms					$0.01
40						
41	Assumed Marginal Cost			(35)		$0.03
42						
43						
44	Percentage Related to Transportation				{2}	0.0%
45	Transportation Related Investment				(39)*(42)	$0.00
46	Gas Supply Related Investment				(39)*[1-(42)]	$0.03

NOTES:
1 Source: Booked maintenance and other expenses for Manufactured Gas.
2 Source: Table - 1, page 3.

Table - 5
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Capacity Related Expense - T & D

Line No.	Year	Capacity Related Expenses	Cost Index	Expense 2010 Dollars	Design Day Sendout	Avg Cost Per Des'n Day Therm
	(1)	(2)	(3)	(4)	(5)	(6)
		{1} {4}	{2}			
1						
2						
3						
4						
5						
6						
7						
8	1996	760,781	1.3318	1,013,176	519,260	1.95
9	1997	457,448	1.3086	598,638	534,600	1.12
10	1998	442,526	1.2940	572,644	541,340	1.06
11	1999	677,886	1.2753	864,490	525,529	1.64
12	2000	806,519	1.2483	1,006,741	520,249	1.94
13	2001	738,972	1.2207	902,045	517,753	1.74
14	2002	613,748	1.2012	737,252	528,031	1.40
15	2003	737,781	1.1759	867,570	538,347	1.61
16	2004	612,561	1.1435	700,439	567,560	1.23
17	2005	576,831	1.1065	638,286	545,734	1.17
18	2006	609,676	1.0716	653,347	512,792	1.27
19	2007	590,679	1.0410	614,895	571,784	1.08
20	2008	764,750	1.0187	779,071	582,530	1.34
21	2009	1,402,178	1.0095	1,415,474	565,572	2.50
22	2010	1,319,234	1.0000	1,319,234	569,539	2.32
23						
24	**REGRESSION RESULTS**				Expense (4)	Avg Cost (6)
25					vs Demand (5)	vs Year (1)
26	Slope =				1.67150	0.02396
27	Y Intercept =				-61585.4936	-46.4425
28	Coefficent of Determination (RSQR)				2.3%	5.6%
29	t Statistic				0.55	0.87
30						
31	**MARGINAL COST ESTIMATES**					
32	Trended Cost Per Design Day Therms				$1.67	
33	Time Series Predicted Avg Cost = 2008 * Slope + Intercept					$1.77
34						
35	Average Cost Per Design Day Therms					
36	1996-2010					$1.56
37	2001-2010					$1.57
38	2005-2010					$1.62
39	Current Average Cost per Design Day Therms					$2.32
40						
41	**Assumed Marginal Cost**			{3}	(34)	**$1.62**

NOTES:

1. Source: Table - 5, Page 2.
2. Source: GDP Implicit Price Deflator.
3. Average costs per DD Therm appear to be relatively stable over time. However since, 2007 Costs appear to be rising. So a recent 5 year average incremental cost was used.
4. Acquistion in 2008/2009 resulted in significant accounting changes causing a large increase in accounting expneses. The data from 2009 and 2010 is representative of Northern's operations, and the large increase will continue to be present on a going forward basis.

Table - 5
Northern Utilities- New Hampshire
Marginal Cost Study

Operations Expense Data - T&D

Line No.	Acct No.	Description		1994	1995	1996	1997	1998	1999	2000	2001
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
TRANS & DIST EXPENSE		{1}									
1	850	Operation Supervision and Eng.	{2}	0	0	0	0	0	0	188,593	170,002
2	851	System Control and Load Disp.	capacity	0	0	0	0	0	0	0	2,487
3	852	Communication System Exp.	{3}	0	0	0	0	0	0	10,757	17,793
4	856	Mains Expenses	{3}	0	0	0	0	0	0	0	0
5	857	Meas. and Reg. Station Exp.	capacity	0	0	0	0	0	0	42,830	53,918
6	863	Maint. Of Mains	capacity	0	0	0	0	0	0	0	2,043
7		Total Transmission		0	0	0	0	0	0	242,180	246,244
8											
9		**OPERATIONS EXPENSE**									
10	870	Operation Supervision and Eng	{2}	0	0	870,955	648,480	754,097	678,706	0	0
11	874	Mains and Services Expenses	{3}	0	0	0	0	0	0	434,731	412,373
12	875	Measuring and Reg. Station Exp.-Gen.	capacity	0	0	0	0	0	0	0	0
13	876	Measuring and Reg. Station Exp. - Ind.	capacity	0	0	0	0	0	0	0	0
14	877	Meas. & Reg. Station Exp.-City Gate	capacity	0	0	0	0	0	0	83,805	88,895
15	878	Meter and House Regulator Exp.	customer	0	0	407,945	429,494	434,752	376,374	381,417	364,462
16	879	Customer Installations Exp.	customer	0	0	25,581	69,794	166,355	73,746	591,125	535,694
17	880	Other Expenses	{2}	0	0	0	0	0	0	(416,495)	(399,888)
18	881	Rents	{2}	0	0	0	0	0	0	1,747	1,928
19											
20		Marginal Oper Exp	Sum(10-18)	0	0	1,304,481	1,147,768	1,355,204	1,128,826	1,076,331	1,003,465
21											
22		**MAINTENANCE EXPENSE**									
23	885	Maintenance Supervision and Engineering	{2}	0	0	0	0	0	0	563	0
24	886	Maint.of Structures and Improvements	capacity	0	0	15,729	17,355	19,089	21,047	21,407	32,541
25	887	Maintenance of Mains	capacity	0	0	377,670	243,851	226,720	379,282	283,709	205,860
26	889	Maint. of Meas. and Reg. Sta. Equip.-Gen.	capacity	0	0	0	0	0	0	29,433	37,182
27	890	Maint. of Meas. and Reg. Sta. Equip.-Ind.	capacity	0	0	0	0	0	0	0	0
28	891	Maint. of Meas. and Reg. Sta. Equip.-City Gate	capacity	0	0	0	0	0	0	0	0
29	892	Maintenance of Services	customer	0	0	94,173	79,118	60,743	107,983	118,231	137,131
30	893	Maintenance of Meters and House Reg.	customer	0	0	11,535	23,539	34,628	20,487	12,875	3,719
31	894	Maintenance of Other Equipment	{2}	0	0	0	0	0	0	312,407	266,739
32											
33		Marginal Maint Exp	Sum(23-31)	0	0	499,107	363,863	341,180	528,799	778,625	683,171
34											
35		MARGINAL T & D Exp & Superintendence	(20)+(33)	0	0	1,803,588	1,511,631	1,696,384	1,657,625	2,097,136	1,932,880
36											
37			{2}	0	0	870,955	648,480	754,097	678,706	86,815	38,781
38			{3}	0	0	0	0	0	0	445,488	430,166
39			Capacity	0	0	393,399	261,206	245,809	400,329	461,184	422,926
40			Customer	0	0	539,234	601,945	696,478	578,590	1,103,649	1,041,006
41											
42		**Allocation of Dist Lines to Customer Component**									
43		Services Investment			13,093,569	14,215,570	15,343,058	16,395,084	17,316,520	18,225,158	19,031,262
44		Mains Investment			30,884,264	36,225,118	37,568,970	39,178,319	40,532,171	42,573,536	43,946,403
45		Services/(Services+Mains)	(30)/[(30)+(31)]		29.77%	28.18%	29.00%	29.50%	29.93%	29.98%	29.98%
46		Customer-related Dist Lines Expense	(32)*(4)		0	0	0	0	0	133,541	128,948
47		Capacity-related Dist Lines Expense			0	0	0	0	0	311,948	301,219
48		**Customer Related Allocation of Superintendence Expense**									
49		Customer %				57.82%	69.74%	73.91%	59.10%	61.54%	61.77%
50		Customer Super & Other				503,573	452,238	557,380	401,149	53,428	23,955
51		Capacity %				42.18%	30.26%	26.09%	40.90%	38.46%	38.23%
52		Capacity Superintendance & Other				367,382	196,242	196,717	277,557	33,388	14,827
53											
54		**Total Customer - Related**				1,042,807	1,054,183	1,253,858	979,739	1,290,617	1,193,908
55											
56		**Total Capacity - Related Expenses**				760,781	457,448	442,526	677,886	806,519	738,972
57		Non-Marginal				0	0	0	0	0	0

NOTES:
1 Source: Annual Reports
2 Costs in this account are joint between customer and capacity components. Individual component costs are computed by allocating on remaining expenses.
3 Costs in these accounts are joint between customer & capacity components. Individual component costs are computed by allocating nonplant investment in mains and services.

Table - 5
Northern Utilities- New Hampshire
Marginal Cost Study

Operations Expense Data - T&D

Line No.	Acct No.	Description		2002	2003	2004	2005	2006	2007	2008	2009	2010
		(1)	(2)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
TRANS & DIST EXPENSE		{1}										
1	850	Operation Supervision and Eng.	{2}	177,162	227,097	212,621	236,483	255,882	248,821	307,171	0	0
2	851	System Control and Load Disp.	capacity	184	0	0	0	0	0	0	0	0
3	852	Communication System Exp.	{3}	19,335	16,199	16,898	10,702	12,104	13,632	26,943	20,261	30,680
4	856	Mains Expenses	{3}	0	0	0	0	0	0	0	395	3
5	857	Meas. and Reg. Station Exp.	capacity	26,935	39,238	41,226	42,983	39,233	35,709	41,266	0	821
6	863	Maint. Of Mains	capacity	22	340	0	547	0	0	0	67	0
7		Total Transmission		223,639	282,874	270,745	290,716	307,219	298,161	375,380	20,724	31,504
8												
9		**OPERATIONS EXPENSE**										
10	870	Operation Supervision and Eng	{2}	0	0	0	0	0	0	155,548	64,421	30,859
11	874	Mains and Services Expenses	{3}	418,784	409,564	410,614	402,560	441,251	456,114	489,191	512,608	562,176
12	875	Measuring and Reg. Station Exp.-Gen.	capacity	0	0	0	0	0	0	3,766	160,482	152,142
13	876	Measuring and Reg. Station Exp. - Ind.	capacity	0	0	0	0	0	0	0	0	0
14	877	Meas. & Reg. Station Exp.-City Gate	capacity	79,121	81,127	75,260	78,488	67,653	74,184	58,111	0	0
15	878	Meter and House Regulator Exp.	customer	365,756	430,472	424,806	466,131	560,865	560,268	546,903	817,734	804,803
16	879	Customer Installations Exp.	customer	361,310	332,784	419,791	347,791	309,904	300,100	311,003	108,556	39,486
17	880	Other Expenses	{2}	(496,264)	(453,877)	(568,926)	(563,836)	(563,928)	(541,638)	(557,208)	783,922	711,532
18	881	Rents	{2}	1,046	1,852	1,063	2,080	2,289	2,283	2,821	0	0
19												
20		Marginal Oper Exp	Sum(10-18)	729,754	801,922	762,608	733,214	818,035	851,311	1,010,135	2,447,724	2,300,999
21												
22		**MAINTENANCE EXPENSE**										
23	885	Maintenance Supervision and Engineering	{2}	0	0	0	0	0	0	7,628	111,800	68,440
24	886	Maint.of Structures and Improvements	capacity	20,411	28,250	23,106	38,069	39,649	33,298	37,351	8,234	5,588
25	887	Maintenance of Mains	capacity	216,906	298,390	253,869	221,887	182,359	192,097	249,701	284,070	257,655
26	889	Maint. of Meas. and Reg. Sta. Equip.-Gen.	capacity	20,697	25,662	24,821	23,419	69,957	27,549	35,649	31,393	20,567
27	890	Maint. of Meas. and Reg. Sta. Equip.-Ind.	capacity	0	0	0	0	0	0	0	4,289	(526)
28	891	Maint. of Meas. and Reg. Sta. Equip.-City Gate	capacity	0	0	0	0	0	0	4,109	28,801	28,896
29	892	Maintenance of Services	customer	103,593	79,878	91,727	75,714	85,714	105,441	104,878	42,538	71,698
30	893	Maintenance of Meters and House Reg.	customer	5,460	27,656	43,674	57,077	70,242	62,231	28,066	33,576	103,807
31	894	Maintenance of Other Equipment	{2}	178,107	148,373	87,894	25,585	26,056	18,635	18,889	218,606	225,249
32												
33		Marginal Maint Exp	Sum(23-31)	545,175	608,210	525,092	441,752	473,976	439,250	486,271	763,307	781,373
34												
35		MARGINAL T & D Exp & Superintendence	(20)+(33)	1,498,568	1,693,005	1,558,446	1,465,681	1,599,230	1,588,723	1,871,786	3,231,754	3,113,876
36												
37			{2}	(139,948)	(76,555)	(267,347)	(299,688)	(279,700)	(271,899)	(65,151)	1,178,748	1,036,080
38			{3}	438,119	425,763	427,512	413,262	453,355	469,745	516,134	533,265	592,860
39			Capacity	364,277	473,007	418,284	405,394	398,851	362,836	429,952	517,336	465,143
40			Customer	836,120	870,790	979,998	946,713	1,026,725	1,028,040	990,850	1,002,405	1,019,794
41												
42		**Allocation of Dist Lines to Customer Component**										
43		Services Investment		20,121,536	20,957,811	21,950,166	22,501,256	23,747,433	24,504,110	25,310,140	25,924,573	31,874,279
44		Mains Investment		45,608,517	47,288,473	49,392,846	50,531,680	54,591,098	57,186,366	59,131,775	59,604,088	65,458,022
45		Services/(Services+Mains)	(30)/[(30)+(31)]	29.98%	29.98%	29.98%	29.98%	29.98%	29.98%	29.98%	29.98%	29.98%
46		Customer-related Dist Lines Expense	(32)*(4)	131,332	127,628	128,152	123,880	135,899	140,812	154,718	159,853	177,717
47		Capacity-related Dist Lines Expense		306,788	298,135	299,360	289,382	317,456	328,933	361,417	373,413	415,143
48		**Customer Related Allocation of Superintendence Expense**										
49		Customer %		59.04%	56.42%	60.69%	60.64%	61.88%	62.82%	59.14%	56.61%	57.63%
50		Customer Super & Other		(82,632)	(43,194)	(162,264)	(181,743)	(173,070)	(170,809)	(38,532)	667,319	597,131
51		Capacity %		40.96%	43.58%	39.31%	39.36%	38.12%	37.18%	40.86%	43.39%	42.37%
52		Capacity Superintendance & Other		(57,317)	(33,361)	(105,083)	(117,945)	(106,630)	(101,091)	(26,619)	511,430	438,949
53												
54		**Total Customer - Related**		884,820	955,224	945,886	888,850	989,554	998,044	1,107,035	1,829,576	1,794,642
55												
56		**Total Capacity - Related Expenses**		613,748	737,781	612,561	576,831	609,676	590,679	764,750	1,402,178	1,319,234
57		Non-Marginal		0	0	0	0	0	0	0	0	0

NOTES:
1 Source: Annual Reports
2 Costs in this account are joint between customer and capacity components. In
3 Costs in these accounts are joint between customer & capacity components. In
allocating nonplant investment in mains and services.

Table - 6
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Customer-Related Plant Expense

Line No.	Year	Services and Meters Expenses	Mains Customer Related Expenses	Total Customer Related Expenses	Cost Index	Expense 2010 Dollars	Annual Customers	Average Cost per Customer
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		{1} {4}		(2)+(3)	{2}	(4)*(5)		(6)/(7)
1	1989							
2	1990							
3	1991							
4	1992							
5	1993							
6	1994							
7	1995							
8	1996	1,042,807	0	1,042,807	1.3318	1,388,765	21,885	$63.46
9	1997	1,054,183	0	1,054,183	1.3086	1,379,552	22,490	$61.34
10	1998	1,253,858	0	1,253,858	1.2940	1,622,536	23,307	$69.62
11	1999	979,739	0	979,739	1.2753	1,249,435	23,622	$52.89
12	2000	1,290,617	0	1,290,617	1.2483	1,611,019	25,564	$63.02
13	2001	1,193,908	0	1,193,908	1.2207	1,457,375	25,952	$56.16
14	2002	884,820	0	884,820	1.2012	1,062,871	26,439	$40.20
15	2003	955,224	0	955,224	1.1759	1,123,265	26,843	$41.85
16	2004	945,886	0	945,886	1.1435	1,081,583	26,676	$40.55
17	2005	888,850	0	888,850	1.1065	983,547	27,172	$36.20
18	2006	989,554	0	989,554	1.0716	1,060,436	27,510	$38.55
19	2007	998,044	0	998,044	1.0410	1,038,960	27,626	$37.61
20	2008	1,107,035	0	1,107,035	1.0187	1,127,766	27,925	$40.39
21	2009	1,829,576	0	1,829,576	1.0095	1,846,925	28,276	$65.32
22	2010	1,794,642	0	1,794,642	1.0000	1,794,642	28,134	$63.79
23								
24				Expense (6)		Unit Cost (8)		
25	REGRESSION RESULTS			vs Customers (7)		vs Year (1)		
26	Slope =			-17.53996		-1.05032		
27	Y Intercept =			1777273.3923		2155.1873		
28	Coefficent of Determination (RSQR)			1.7%		14.5%		
29	t Value			-0.47		-1.49		
30								
31	MARGINAL COST ESTIMATES							
32	Trended Cost Per Customer			($17.54)		44.04		
33								
34	Average Cost Per Customer:							
35	1989-2010					$50.92		
36	2001-2010					$46.15		
37	2005-2010					$47.12		
38	Current Average Cost per Customer					$63.79		
39	Time Series Test Year Prediction					$41.94		
40								
41	**Assumed Marginal Cost {3}**					**$47.12**		

NOTES:
1 Source: Table - 5, Page 2.
2 Source: GDP Implicit Price Deflator.
3 Regression results for time series are not sufficiently robust for marginal cost estimate.
Recently average costs have trended higher so I employed near-term average marginal cost estimate as most representative.
4 Increases in 2008-2010 are from an accounting change and will be expected to continute on a going forward basis.

Table - 6
Northern Utilities- New Hampshire
Marginal Cost Study

Class Weighted Customer Plant Related Expense

	------ Customer Weightings ------				----------- Customer Weightings ------------		
Line No.	**Customer Groups**	**Number of Customers**	**Service & Meter Cost Assigned**	**Total Cost**	**Relative Weight Per Cust**	**System Avg Marginal Cost per Cust**	**Marginal Costs Per Cust**
	(1)	(2)	(3)	(4)=(3)*(2)	(5)=(3)/avg(3)	(6)	(7)=(5)*(6)
		{1}	{2}		{3}	{4}	
1	ResNonHt	1,653	$3,496	5,778,985	0.775	$47.12	**$36.51**
2	ResHt	20,262	3,496	70,832,353	0.775	$47.12	**$36.51**
3	SmLoS	4,416	6,802	30,037,893	1.508	$47.12	**$71.05**
4	SmHiS	969	6,802	6,591,534	1.508	$47.12	**$71.05**
5	MdLoS	543	14,196	7,703,226	3.147	$47.12	**$148.27**
6	MdHiS	234	14,196	3,324,947	3.147	$47.12	**$148.27**
7	LgLoS	30	46,462	1,397,595	10.299	$47.12	**$485.29**
8	LgHiS	27	46,462	1,253,176	10.299	$47.12	**$485.29**
9							
10							
11							
12							
13							
14	Total	28,134	141,912	126,919,710	1.000	$47.12	**$47.12**
15							
16	Avg Cost per cust		$4,511.32				
17	(4) Total / (2) Total						

NOTES:
1 Source: Sales and Demand Model.
2 Source: Meters plus services investment from Table - 3 , page 1.
3 Relative weights based on average cost per customer, and service and meter cost assigned.
4 Source: Table 6, Page 1.

Table - 6
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Customer Accounting & Marketing Expense

Line No.	Year	Customer Accounting Expenses (Excl. Uncoll)	Marketing Services Expenses 911-916	Total Customer Related Expenses	Cost Index	Expense in 2010 Dollars	Annual Customers	Average Cost per Customer
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		{1}	{1}	(2)+(3)	{2}	(4)*(5)		(6)/(7)
1	1989							
2	1990							
3	1991							
4	1992							
5	1993							
6	1994							
7	1995							
8	1996	1,222,490	672,083	1,894,573	1.3318	2,523,111	21,885	115.29
9	1997	978,181	883,078	1,861,259	1.3086	2,435,730	22,490	108.30
10	1998	560,965	438,631	999,596	1.2940	1,293,512	23,307	55.50
11	1999	602,857	585,758	1,188,615	1.2753	1,515,809	23,622	64.17
12	2000	540,036	471,626	1,011,662	1.2483	1,262,811	25,564	49.40
13	2001	581,715	515,751	1,097,466	1.2207	1,339,650	25,952	51.62
14	2002	618,924	846,724	1,465,648	1.2012	1,760,579	26,439	66.59
15	2003	441,107	773,860	1,214,966	1.1759	1,428,701	26,843	53.22
16	2004	288,736	667,404	956,139	1.1435	1,093,308	26,676	40.98
17	2005	340,161	473,121	813,282	1.1065	899,928	27,172	33.12
18	2006	273,863	534,380	808,243	1.0716	866,138	27,510	31.48
19	2007	254,478	612,788	867,266	1.0410	902,821	27,626	32.68
20	2008	384,374	453,970	838,345	1.0187	854,044	27,925	30.58
21	2009	1,620,497	0	1,620,497	1.0095	1,635,864	28,276	57.85
22	2010	2,152,066	0	2,152,066	1.0000	2,152,066	28,134	76.49

23				
24	REGRESSION RESULTS		Expense (5)	Unit Cost (8)
25			vs Customers (6)	vs Year (1)
26	Slope =		-146.32198	-3.36122
27	Y Intercept =		5262990.9223	6790.34798
28	Coefficent of Determination (RSQR)		32.0%	33.60%
29	t Probability		-2.47	-2.56
30				
31	MARGINAL COST ESTIMATES			
32	Trended Cost Per Customer		($146.32)	
33	Time Series predicted Average Cost (2010)*slope+intercept			$34.29
34				
35	Average Cost Per Customer:			
36	1989-2010		$56.40	
37	2001-2010		$47.45	
38	2005-2010		$43.87	
39	Current Average Cost per Customer		$76.49	
40	Average Cost Per Customer 2008-2010:		$55.04	
41				
42	**Assumed Marginal Cost**	{3}	**$43.87**	

NOTES:
1 Source: Cost data from Annual Reports, ACCTS 901-910 excluding Uncollectible Accounts Expense in Account 904.
2 Source: GDP Implict Price Deflator.
3 Regression results for time series are insufficiently robust for marginal cost, but confirm an inclining trend. Therefore, the current average cost over near term will be used to estimate the Marginal Cost.

Table - 6
Northern Utilities- New Hampshire
Marginal Cost Study

Class Weighted Customer Accounting & Marketing Expense

Line No.	Customer Groups	Number of Customers	Allocated Customer Accounting	Average Costs Per Cust	Relative Weight Per Cust	Company Avg Cost per Cust	Marginal Costs Per Cust
	(1)	(2)	(3)	(4)= (3)/(2)	(5)=(4)/avg(4)	(6)	(7)= (5)*(6)
			{1} {2}		{3}	{4}	
1	ResNonHt	1,653	$121,485	$73.49	0.961	$43.87	$42.15
2	ResHt	20,262	$1,486,150	$73.35	0.959	$43.87	$42.07
3	SmLoS	4,416	$360,948	$81.74	1.069	$43.87	$46.88
4	SmHiS	969	$79,802	$82.36	1.077	$43.87	$47.23
5	MdLoS	543	$64,540	$118.94	1.555	$43.87	$68.21
6	MdHiS	234	$27,689	$118.22	1.545	$43.87	$67.80
7	LgLoS	30	$5,050	$167.87	2.195	$43.87	$96.28
8	LgHiS	27	$6,403	$237.37	3.103	$43.87	$136.14
9							
10							
11							
12							
13							
14	Total	28,134	2,152,066	$76.49	1.744	$43.87	$43.87

NOTES:
1 Total taken from Table 6, Page 3, column 4.
2 Accts 902, 903 allocated by ACOS, and 908 & 909 by customers.
3 Relative weights based on column 4.
4 Source: Table 6, Page 3.

Table - 6
Northern Utilities- New Hampshire
Marginal Cost Study

Class Weighted Uncollectible Accounts Expense

Line No.	Customer Groups		Acct. 904		Total Normalized Revenues	Write-off Percentage
	(1)	(2)	(3)	(4)	(5)	(6)
			{1}		{2}	(6)=(4)/(5)
1	ResNonHt		$4,096		$506,169	0.81%
2	ResHt		$159,331		$8,599,677	1.85%
3	SmLoS		$7,083		$4,289,787	0.17%
4	SmHiS		$1,909		$931,201	0.21%
5	MdLoS		$5,436		$2,724,275	0.20%
6	MdHiS		$1,001		$906,734	0.11%
7	LgLoS		$92		$1,078,110	0.01%
8	LgHiS		$0		$1,932,912	0.00%
9						
10						
11						
12						
13						
14	Total		$178,947		$20,968,864	0.85%
15						

Adjusted Pro forma writeoff rate 0.85%

NOTES:
1 Total account 904 less Gas Costs.
2 Total normalized delivery revenues. Provided by ACOS Study.

Table - 7
Northern Utilities- New Hampshire
Marginal Cost Study

Development of A & G Loading Factors

Line No.	Description	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1	**Nonplant Related Expenses**															
2	920 Salary	377,195	564,700	350,345	346,351	536,249	411,410	511,776	147,472	55,658	92,274	206,331	211,213	(37,353)	13,488	29,106
3	921 Office Supplies	474,724	417,796	474,381	366,115	406,798	219,748	536,028	491,618	422,080	394,120	221,377	295,388	262,722	276,238	293,391
4	922 Admin Exp - Transf (Credit)	(2,735,969)	(2,350,559)	(1,334,118)	(1,093,635)	(1,328,173)	(1,112,188)	(869,552)	(848,848)	(843,265)	(796,476)	(1,113,567)	(1,113,137)	(907,934)	0	0
5	923 Outside Services	2,994,222	2,493,162	3,164,747	3,004,239	3,637,219	3,702,888	3,647,580	3,037,300	3,881,628	3,564,501	4,034,655	4,645,578	3,711,622	1,066,578	2,160,518
6	926 Pension	843,461	956,655	762,195	1,065,461	783,982	693,074	1,139,598	1,372,359	1,376,018	1,213,675	1,484,008	1,190,594	930,259	1,128,809	1,050,249
7	927 Franchise Requirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	928 Regulatory Exp	60,779	80,360	94,232	79,230	92,600	65,340	103,798	42,498	165,512	250,414	289,961	191,533	242,391	368,611	111,270
9	930 Misc	166,028	600,256	780,242	699,324	354,694	315,897	166,096	45,420	596,972	494,334	588,530	602,033	467,986	61,078	79,439
10																
11																
12																
13	Total Non-Plant	2,180,440	2,762,370	4,292,024	4,467,085	4,483,369	4,296,169	5,235,324	4,287,818	5,654,602	5,212,843	5,711,296	6,023,201	4,669,694	2,914,802	3,723,972
14																
15	**Plant Related Expenses**															
16																
17																
18	924 Property Ins	0	0	0	0	0	0	0	0	0	0	0	49,034	47,135	13,255	8,015
19	925 Injury & Damages	179,576	247,527	197,850	98,199	203,433	142,471	108,826	751,284	(283,904)	556,078	432,130	297,661	358,054	215,233	328,719
20	929 Duplicate Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	931 Rents	0	0	0	0	0	0	0	(18,000)	(15,285)	(18,837)	(19,478)	(19,478)	354	36,875	12,961
22	932 Gen Plt Maint	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	935 Maint. Of General Plant	77,712	61,873	51,480	56,457	51,627	54,025	49,652	652,561	549,338	662,682	572,079	556,794	358,185	42,396	129,841
24																
25	Total Plant Related Expenses	$257,288	$309,400	$249,330	$154,656	$255,060	$196,496	$158,478	$1,385,845	$250,149	$1,199,923	$984,731	$884,012	$763,729	$307,760	$479,536
26																
27	Total Allocable O&M (Total O&M less non-labor production															
28	costs and A&G expenses)	3,908,662	3,989,118	3,087,130	3,372,440	3,258,611	3,132,725	3,334,653	3,320,476	2,890,000	2,587,997	2,758,835	2,895,945	2,994,655	5,966,163	6,136,291
29																
30	A & G Loading Factor Nonplant Rel Exp															
31	Line (13)/(25)	55.78%	69.25%	139.03%	132.46%	137.59%	137.14%	157.00%	129.13%	195.66%	201.42%	207.02%	207.99%	155.93%	48.86%	60.69%
32	Average 2009 - 2010 = 54.77%															
33																
34																
35	Total Gross Plant $	63,624,556	68,271,573	71,823,646	74,905,563	78,585,950	80,881,339	84,400,533	89,451,213	92,538,749	94,753,557	100,650,010	104,956,224	108,799,813	110,983,542	126,627,083
36																
37																
38	A & G Loading Factor Plant Rel Exp															
39	Line (22)/(32)	0.40%	0.45%	0.35%	0.21%	0.32%	0.24%	0.19%	1.55%	0.27%	1.27%	0.98%	0.84%	0.70%	0.28%	0.38%
40	Average 2009 - 2010 = 0.33%															

NOTES:
1 Source: Annual Reports

Table - 7
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Miscellaneous Loading Factors

Line No.	Description			1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1	**Materials and Supplies and Prepayments Loader**																	
2	Materials and Supplies			501,725	592,798	670,629	674,451	774,134	497,805	455,452	460,284	667,900	806,875	791,806	871,400	1,648,857	738,076	778,820
3																		
4	Prepayments			1,988,580	1,798,306	2,098,238	2,359,041	2,148,760	2,100,142	14,643	493,514	620,302	563,007	386,167	320,941	528,546	542,134	633,521
5																		
6	Total Utility Plant			63,624,556	68,271,573	71,823,646	74,905,563	78,585,950	80,881,339	84,400,533	89,451,213	92,538,749	94,753,557	100,650,010	104,956,224	108,799,813	110,983,542	126,627,083
7																		
8	Non-Fuel Loader	(2-3+4-5)/(6)	{1}	3.91%	3.50%	3.86%	4.05%	3.72%	3.21%	0.56%	1.07%	1.39%	1.45%	1.17%	1.14%	2.00%	1.15%	1.12%
9	Average 2009 - 2010 = 1.13%																	
10																		
11																		
12																		
13	**General Plant Loading Factor**																	
14	Total General Plant			2,102,512	2,362,936	2,555,764	2,620,695	2,675,448	2,281,051	2,310,365	4,077,153	3,976,035	3,984,419	4,113,313	4,158,083	4,280,158	5,290,372	6,121,350
15	Total Utility Plant			63,624,556	68,271,573	71,823,646	74,905,563	78,585,950	80,881,339	84,400,533	89,451,213	92,538,749	94,753,557	100,650,010	104,956,224	108,799,813	110,983,542	126,627,083
16																		
17	Gen Plant Factor	(14)/(15-14)	{1}	3.42%	3.59%	3.69%	3.63%	3.52%	2.90%	2.81%	4.78%	4.49%	4.39%	4.26%	4.13%	4.10%	5.01%	5.08%
18	Average 2009 - 2010 = 5.04%																	

Table - 8
Northern Utilities- New Hampshire
Marginal Cost Study

Summary of Levelized Fixed Charge Rates

Line No.	Description	Engineer's Fixed Charge Rate	Economist's Fixed Charge Rate
	(1)	(2)	(3)
1	FIXED CHARGE RATE RESULTS		
2			Over
3	Levelized Cost for: {1}		Book Life
4	Production Plant		
5	Mains (Cap-related Dist)	9.75%	7.17%
6	Services Investment	9.57%	6.92%
7	Meters Investment	10.98%	8.46%
8			
9			
10	INCREMENTAL COST OF CAPITAL {2}		
11	Debt	5.73%	59.75%
12	Preferred	0.00%	0.00%
13	Common	10.50%	40.25%
14	Other	0.00%	0.00%
15	Weighted Cost of Incremental Capital		7.65%
16			
17			
18	After Tax Cost of New Capital {3}		6.29%
19	Incremental Tax Rate {4}		39.61%
20	Tax Effected Cost of Capital {5}		10.42%
21	Property Tax Rate {6}		1.28%
22	Gross Receipts Tax Rate		0.00%
23	Inflation Rate {7}		2.30%
24	Property Tax Escalation Rate {8}		2.80%
25	Commodity Escalation Rate {9}		0.00%

NOTES:
1 Source: Table - 8, pages 3, 4, 5, & 6.
2 Weighted average current cost of raising capital in 2010.
3 Wtd Cost of Capital (15) less tax savings on debt interest.
4 Incremental tax rate assumed to be 34% Federal and 8.5% State tax which results in a combined effective rate of 39.61%.
5 Tax effected cost of capital, (15) plus tax component on return.
6 Weighted average provided by excel file.
7 Inflation rate less technical progress of .5%
8 Inflation rate estimated for the forward looking five year period
9 Annual Commodity price escalation factor provided by EIA

Table - 8
Northern Utilities- New Hampshire
Marginal Cost Study
LEVELIZED FIXED CHARGE ANALYSIS Rev. 4.0.0
INPUT DATA

LINE NO.	VARIABLE	Peaking Plant	Capacity - Related Distribution	Services	Meters
1	Plant Data		41	45	32
2					
3	CAPITALIZED COST	$1,000	$1,000	$1,000	$1,000
4	BOOK LIFE		41	45	32
5	SALVAGE VALUE		-24%	-75%	-8%
6	MACRS LIFE	20	20	20	20
7					
8					
9	Capital Structure				
10					
11	DEBT RATIO	59.75%	59.75%	59.75%	59.75%
12	PREFERRED RATIO	0.00%	0.00%	0.00%	0.00%
13	COMMON RATIO	40.25%	40.25%	40.25%	40.25%
14	OTHER ____________	0.00%	0.00%	0.00%	0.00%
15					
16	Cost of Capital				
17					
18	DEBT COST	5.73%	5.73%	5.73%	5.73%
19	PREFERRED COST	0.00%	0.00%	0.00%	0.00%
20	COMMON COST	10.50%	10.50%	10.50%	10.50%
21	OTHER	0.00%	0.00%	0.00%	0.00%
22	WTD COST OF CAPITAL	7.65%	7.65%	7.65%	7.65%
23	AFTER TAX COST / CAP	6.29%	6.29%	6.29%	6.29%
24					
25	Tax Data				
26					
27	TAX RATE	39.61%	39.61%	39.61%	39.61%
28	ITC RATE	0.00%	0.00%	0.00%	0.00%
29	REVENUE TAX RATE	0.00%	0.00%	0.00%	0.00%
30	PROPERTY TAX RATE	1.28%	1.28%	1.28%	1.28%
31	PROPERTY INSURANCE	0.00%	0.00%	0.00%	0.00%
32	PROPERTY TAX BASIS	2	2	2	2
33	1 = Original Cost				
34	2 = Depreciated Bal				
35					
36	Misc. Data				
37					
38	INFLATION RATE	2.30%	2.30%	2.30%	2.30%
39	PROP TAX ESC RATE	2.80%	2.80%	2.80%	2.80%
40	RETURN BASIS	2	2	2	2
41	1 = Begin of Year				
42	2 = Avg Begin & End				
43	3 = End of Year				

Page 3 of 11

Table - 8
Northern Utilities- New Hampshire
Marginal Cost Study
LEVELIZED FIXED CHARGE ANALYSIS Rev. 4.0.0
Peaker Plant
NOT USED

		-- Current Dollars -- (Engineer's FCR)			-- Constant Dollars -- (Economist's FCR)	
LINE NO.	ITEM	CURRENT LEVELIZED DOLLARS	PERCENT OF CAPITAL INVESTMENT		CONSTANT LEVELIZED DOLLARS	PERCENT OF CAPITAL INVESTMENT
1	INTEREST ON DEBT	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
2	RETURN ON PREF	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
3	RETURN ON COMMON	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
4						
5	RETURN	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
6						
7	DEPRECIATION	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
8						
9	INCOME TAX	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
10	DEFERRED TAXES	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
11						
12	INCOME TAX	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
13						
14	REVENUE TAX	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
15	PROPERTY TAX	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
16	PROPERTY INSURANCE	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
17						
18	OTHER	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
19						
20						
21	TOTAL REVENUE REQ'D	**#DIV/0!**	**#DIV/0!**		**#DIV/0!**	**#DIV/0!**

Table - 8
Northern Utilities- New Hampshire
Marginal Cost Study
LEVELIZED FIXED CHARGE ANALYSIS Rev. 4.0.0
Capacity Related Distribution

		-- Current Dollars -- (Engineer's FCR)		-- Constant Dollars -- (Economist's FCR)	
LINE NO.	ITEM	CURRENT LEVELIZED DOLLARS	PERCENT OF CAPITAL INVESTMENT	CONSTANT LEVELIZED DOLLARS	PERCENT OF CAPITAL INVESTMENT
1	INTEREST ON DEBT	$18.77	1.88%	$13.81	1.38%
2	RETURN ON PREF	$0.00	0.00%	$0.00	0.00%
3	RETURN ON COMMON	$23.18	2.32%	$17.05	1.71%
4					
5	RETURN	$41.95	4.19%	$30.86	3.09%
6					
7	DEPRECIATION	$30.15	3.01%	$22.18	2.22%
8					
9	INCOME TAX	$11.08	1.11%	$8.15	0.81%
10	DEFERRED TAXES	$4.13	0.41%	$3.04	0.30%
11					
12	INCOME TAX	$15.20	1.52%	$11.18	1.12%
13					
14	REVENUE TAX	$0.00	0.00%	$0.00	0.00%
15	PROPERTY TAX	$10.16	1.02%	$7.47	0.75%
16	PROPERTY INSURANCE	$0.00	0.00%	$0.00	0.00%
17					
18	OTHER	$10.16	1.02%	$7.47	0.75%
19					
20					
21	TOTAL REVENUE REQ'D	**$97.46**	**9.75%**	**$71.69**	**7.17%**
22					

Table - 8
Northern Utilities- New Hampshire
Marginal Cost Study
LEVELIZED FIXED CHARGE ANALYSIS Rev. 4.0.0
Services Investment

		-- Current Dollars -- (Engineer's FCR)			-- Constant Dollars -- (Economist's FCR)	
LINE NO.	ITEM	CURRENT LEVELIZED DOLLARS	PERCENT OF CAPITAL INVESTMENT		CONSTANT LEVELIZED DOLLARS	PERCENT OF CAPITAL INVESTMENT
1	INTEREST ON DEBT	$15.91	1.59%		$11.50	1.15%
2	RETURN ON PREF	$0.00	0.00%		$0.00	0.00%
3	RETURN ON COMMON	$19.65	1.96%		$14.20	1.42%
4						
5	RETURN	$35.55	3.56%		$25.70	2.57%
6						
7	DEPRECIATION	$38.89	3.89%		$28.11	2.81%
8						
9	INCOME TAX	$11.80	1.18%		$8.53	0.85%
10	DEFERRED TAXES	$1.08	0.11%		$0.78	0.08%
11						
12	INCOME TAX	$12.89	1.29%		$9.31	0.93%
13						
14	REVENUE TAX	$0.00	0.00%		$0.00	0.00%
15	PROPERTY TAX	$8.36	0.84%		$6.04	0.60%
16	PROPERTY INSURANCE	$0.00	0.00%		$0.00	0.00%
17						
18	OTHER	$8.36	0.84%		$6.04	0.60%
19						
20						
21	TOTAL REVENUE REQ'D	**$95.68**	**9.57%**		**$69.16**	**6.92%**
22						

Table - 8
Northern Utilities- New Hampshire
Marginal Cost Study
LEVELIZED FIXED CHARGE ANALYSIS Rev. 4.0.0
Metering Equipment

		-- Current Dollars -- (Engineer's FCR)			-- Constant Dollars -- (Economist's FCR)	
LINE NO.	ITEM	CURRENT LEVELIZED DOLLARS	PERCENT OF CAPITAL INVESTMENT		CONSTANT LEVELIZED DOLLARS	PERCENT OF CAPITAL INVESTMENT
1	INTEREST ON DEBT	$19.39	1.94%		$14.95	1.50%
2	RETURN ON PREF	$0.00	0.00%		$0.00	0.00%
3	RETURN ON COMMON	$23.95	2.40%		$18.46	1.85%
4						
5	RETURN	$43.34	4.33%		$33.41	3.34%
6						
7	DEPRECIATION	$33.68	3.37%		$25.97	2.60%
8						
9	INCOME TAX	$12.09	1.21%		$9.32	0.93%
10	DEFERRED TAXES	$3.62	0.36%		$2.79	0.28%
11						
12	INCOME TAX	$15.71	1.57%		$12.11	1.21%
13						
14	REVENUE TAX	$0.00	0.00%		$0.00	0.00%
15	PROPERTY TAX	$17.03	1.70%		$13.13	1.31%
16	PROPERTY INSURANCE	$0.00	0.00%		$0.00	0.00%
17						
18	OTHER	$17.03	1.70%		$13.13	1.31%
19						
20						
21	TOTAL REVENUE REQ'D	**$109.77**	**10.98%**		**$84.62**	**8.46%**
22						

Table - 8
Northern Utilities- New Hampshire
Development of Revenue Requirements Stream

Peaker Plant
NOT USED

Year No.	Rate Base	Interest On Debt	Return On Preferred	Return On Common	Tax Deprec'N	Book Deprec'N	Deferred Tax	Taxable Income	Inc Tax Payable	Revenue Tax	Property Tax	Property Insurance	ANNUAL Reveue Reqm'Ts	% of Original Investm'T	Present Worth Of Rev Req'Mt
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	1,000.00														
1	992.57	33.97	0.00	41.95	37.50	0.00	14.85	31.96	12.66	0.00	0.00	0.00	103.43	10.34%	97.31
2	970.85	33.22	0.00	41.03	72.19	0.00	28.59	(4.24)	(1.68)	0.00	0.00	0.00	101.17	10.12%	89.54
3	943.33	32.28	0.00	39.87	66.77	0.00	26.45	(0.76)	(0.30)	0.00	0.00	0.00	98.30	9.83%	81.85
4	917.87	31.41	0.00	38.79	61.77	0.00	24.47	2.47	0.98	0.00	0.00	0.00	95.65	9.56%	74.93
5	894.32	30.60	0.00	37.80	57.13	0.00	22.63	5.45	2.16	0.00	0.00	0.00	93.19	9.32%	68.68
6	872.54	29.86	0.00	36.88	52.85	0.00	20.93	8.21	3.25	0.00	0.00	0.00	90.92	9.09%	63.04
7	852.39	29.17	0.00	36.02	48.88	0.00	19.36	10.77	4.27	0.00	0.00	0.00	88.82	8.88%	57.94
8	833.76	28.53	0.00	35.24	45.22	0.00	17.91	13.13	5.20	0.00	0.00	0.00	86.88	8.69%	53.32
9	815.96	27.92	0.00	34.48	44.62	0.00	17.67	12.49	4.95	0.00	0.00	0.00	85.03	8.50%	49.09
10	798.29	27.32	0.00	33.74	44.62	0.00	17.67	11.25	4.46	0.00	0.00	0.00	83.18	8.32%	45.19
11	780.62	26.71	0.00	32.99	44.62	0.00	17.67	10.01	3.97	0.00	0.00	0.00	81.34	8.13%	41.57
12	762.95	26.11	0.00	32.24	44.62	0.00	17.67	8.78	3.48	0.00	0.00	0.00	79.50	7.95%	38.22
13	745.28	25.50	0.00	31.50	44.62	0.00	17.67	7.54	2.99	0.00	0.00	0.00	77.66	7.77%	35.13
14	727.60	24.90	0.00	30.75	44.62	0.00	17.67	6.30	2.50	0.00	0.00	0.00	75.82	7.58%	32.26
15	709.93	24.29	0.00	30.00	44.62	0.00	17.67	5.07	2.01	0.00	0.00	0.00	73.98	7.40%	29.62
16	692.26	23.69	0.00	29.26	44.62	0.00	17.67	3.83	1.52	0.00	0.00	0.00	72.14	7.21%	27.17
17	674.59	23.09	0.00	28.51	44.62	0.00	17.67	2.59	1.03	0.00	0.00	0.00	70.29	7.03%	24.91
18	656.92	22.48	0.00	27.76	44.62	0.00	17.67	1.36	0.54	0.00	0.00	0.00	68.45	6.85%	22.82
19	639.24	21.88	0.00	27.02	44.62	0.00	17.67	0.12	0.05	0.00	0.00	0.00	66.61	6.66%	20.89
20	621.57	21.27	0.00	26.27	44.62	0.00	17.67	(1.12)	(0.44)	0.00	0.00	0.00	64.77	6.48%	19.11
21	608.32	20.82	0.00	25.71	22.31	0.00	8.84	20.26	8.03	0.00	0.00	0.00	63.39	6.34%	17.60
22	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	16.43
23	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	15.46
24	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	14.55
25	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	13.69
26	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	12.87
27	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	12.11
28	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	11.40
29	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	10.72
30	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	10.09
31	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	9.49
32	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	8.93
33	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	8.40
34	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	7.90
35	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	7.43
36	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	6.99
37	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	6.58
38	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	6.19
39	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	5.82
40	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	5.48
41	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	5.15
42	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	4.85
43	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	4.56
44	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	4.29
45	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	4.04
46	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	3.80
47	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	3.57
48	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	3.36
49	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	3.16
50	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	2.98
51	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	2.80
52	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	2.63
53	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	2.48
54	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	2.33
55	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	2.19
56	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	2.06
57	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	1.94
58	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	1.83
59	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	1.72
60	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	1.62
61	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	1.52
62	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	1.43
63	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	1.35
64	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	1.27
65	603.90	20.67	0.00	25.52	0.00	0.00	0.00	42.26	16.74	0.00	0.00	0.00	62.93	6.29%	1.19
TOTAL		$1,474.33	$0.00	$1,820.79	$1,000.00	$0.00	$396.10	$2,015.05	$798.16	$0.00	$0.00	$0.00	$4,489.38		1,249
PRESENT WORTH		$410.13	$0.00	$506.51	$573.66	$0.00	$227.23	$265.07	$104.99	$0.00	$0.00	$0.00	$1,248.86	124.89%	
LEVELIZED PAYMENT		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Table - 8
Northern Utilities- New Hampshire
Development of Revenue Requirements Stream

Capacity Related Distribution

Year No.	Rate Base	Interest On Debt	Return On Preferred	Return On Common	Tax Deprec'N	Book Deprec'N	Deferred Tax	Taxable Income	Inc Tax Payable	Revenue Tax	Property Tax	Property Insurance	ANNUAL Reveue Reqm'Ts	% of Original Investm'T	Present Worth Of Rev Req'Mt
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	1,000.00														
1	983.47	33.66	0.00	41.56	37.50	30.15	2.91	61.47	24.35	0.00	12.76	0.00	145.39	14.54%	136.78
2	943.54	32.29	0.00	39.88	72.19	30.15	16.65	23.99	9.50	0.00	12.72	0.00	141.19	14.12%	124.97
3	897.81	30.72	0.00	37.94	66.77	30.15	14.51	26.21	10.38	0.00	12.67	0.00	136.38	13.64%	113.56
4	854.15	29.23	0.00	36.10	61.77	30.15	12.52	28.16	11.15	0.00	12.61	0.00	131.76	13.18%	103.22
5	812.39	27.80	0.00	34.33	57.13	30.15	10.69	29.87	11.83	0.00	12.53	0.00	127.33	12.73%	93.85
6	772.40	26.43	0.00	32.64	52.85	30.15	8.99	31.36	12.42	0.00	12.44	0.00	123.08	12.31%	85.34
7	734.05	25.12	0.00	31.02	48.88	30.15	7.42	32.63	12.93	0.00	12.34	0.00	118.97	11.90%	77.61
8	697.21	23.86	0.00	29.47	45.22	30.15	5.97	33.72	13.36	0.00	12.21	0.00	115.01	11.50%	70.59
9	661.21	22.63	0.00	27.94	44.62	30.15	5.73	31.81	12.60	0.00	12.08	0.00	111.12	11.11%	64.16
10	625.33	21.40	0.00	26.43	44.62	30.15	5.73	29.30	11.60	0.00	11.92	0.00	107.23	10.72%	58.25
11	589.45	20.17	0.00	24.91	44.62	30.15	5.73	26.78	10.61	0.00	11.75	0.00	103.32	10.33%	52.80
12	553.57	18.94	0.00	23.40	44.62	30.15	5.73	24.27	9.61	0.00	11.56	0.00	99.39	9.94%	47.78
13	517.69	17.72	0.00	21.88	44.62	30.15	5.73	21.76	8.62	0.00	11.34	0.00	95.44	9.54%	43.17
14	481.81	16.49	0.00	20.36	44.62	30.15	5.73	19.25	7.63	0.00	11.11	0.00	91.47	9.15%	38.92
15	445.93	15.26	0.00	18.85	44.62	30.15	5.73	16.74	6.63	0.00	10.85	0.00	87.47	8.75%	35.02
16	410.06	14.03	0.00	17.33	44.62	30.15	5.73	14.23	5.64	0.00	10.58	0.00	83.45	8.35%	31.43
17	374.18	12.80	0.00	15.81	44.62	30.15	5.73	11.72	4.64	0.00	10.27	0.00	79.41	7.94%	28.14
18	338.30	11.58	0.00	14.30	44.62	30.15	5.73	9.21	3.65	0.00	9.95	0.00	75.35	7.53%	25.12
19	302.42	10.35	0.00	12.78	44.62	30.15	5.73	6.70	2.65	0.00	9.59	0.00	71.25	7.13%	22.35
20	266.54	9.12	0.00	11.26	44.62	30.15	5.73	4.19	1.66	0.00	9.21	0.00	67.13	6.71%	19.81
21	235.08	8.04	0.00	9.94	22.31	30.15	(3.11)	24.29	9.62	0.00	8.80	0.00	63.45	6.34%	17.61
22	212.45	7.27	0.00	8.98	0.00	30.15	(11.94)	45.02	17.83	0.00	8.36	0.00	60.65	6.06%	15.84
23	194.25	6.65	0.00	8.21	0.00	30.15	(11.94)	43.74	17.33	0.00	7.89	0.00	58.28	5.83%	14.32
24	176.04	6.02	0.00	7.44	0.00	30.15	(11.94)	42.47	16.82	0.00	7.38	0.00	55.88	5.59%	12.92
25	157.83	5.40	0.00	6.67	0.00	30.15	(11.94)	41.19	16.32	0.00	6.84	0.00	53.44	5.34%	11.62
26	139.63	4.78	0.00	5.90	0.00	30.15	(11.94)	39.92	15.81	0.00	6.27	0.00	50.97	5.10%	10.43
27	121.42	4.16	0.00	5.13	0.00	30.15	(11.94)	38.65	15.31	0.00	5.65	0.00	48.46	4.85%	9.33
28	103.21	3.53	0.00	4.36	0.00	30.15	(11.94)	37.37	14.80	0.00	5.00	0.00	45.91	4.59%	8.31
29	85.01	2.91	0.00	3.59	0.00	30.15	(11.94)	36.10	14.30	0.00	4.31	0.00	43.32	4.33%	7.38
30	66.80	2.29	0.00	2.82	0.00	30.15	(11.94)	34.82	13.79	0.00	3.57	0.00	40.68	4.07%	6.52
31	48.59	1.66	0.00	2.05	0.00	30.15	(11.94)	33.55	13.29	0.00	2.79	0.00	38.00	3.80%	5.73
32	30.39	1.04	0.00	1.28	0.00	30.15	(11.94)	32.28	12.78	0.00	1.96	0.00	35.28	3.53%	5.00
33	12.18	0.42	0.00	0.51	0.00	30.15	(11.94)	31.00	12.28	0.00	1.09	0.00	32.51	3.25%	4.34
34	(6.03)	(0.21)	0.00	(0.25)	0.00	30.15	(11.94)	29.73	11.77	0.00	0.16	0.00	29.68	2.97%	3.73
35	(24.23)	(0.83)	0.00	(1.02)	0.00	30.15	(11.94)	28.45	11.27	0.00	0.00	0.00	27.62	2.76%	3.26
36	(42.44)	(1.45)	0.00	(1.79)	0.00	30.15	(11.94)	27.18	10.77	0.00	0.00	0.00	25.73	2.57%	2.86
37	(60.65)	(2.08)	0.00	(2.56)	0.00	30.15	(11.94)	25.90	10.26	0.00	0.00	0.00	23.83	2.38%	2.49
38	(78.85)	(2.70)	0.00	(3.33)	0.00	30.15	(11.94)	24.63	9.76	0.00	0.00	0.00	21.93	2.19%	2.16
39	(97.06)	(3.32)	0.00	(4.10)	0.00	30.15	(11.94)	23.36	9.25	0.00	0.00	0.00	20.03	2.00%	1.85
40	(115.27)	(3.94)	0.00	(4.87)	0.00	30.15	(11.94)	22.08	8.75	0.00	0.00	0.00	18.14	1.81%	1.58
41	(133.48)	(4.57)	0.00	(5.64)	0.00	30.15	(11.94)	20.81	8.24	0.00	0.00	0.00	16.24	1.62%	1.33
42	46.76	1.60	0.00	1.98	236.10	0.00	93.52	(232.82)	(92.22)	0.00	0.00	0.00	4.87	0.49%	0.38
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00
TOTAL		$456.27	$0.00	$563.49	$1,236.10	$1,236.10	($0.00)	$933.09	$369.60	$0.00	$300.58	$0.00	$2,926.04		1,422
PRESENT WORTH		$273.83	$0.00	$338.18	$591.86	$439.85	$60.21	$407.98	$161.60	$0.00	$148.19	$0.00	$1,421.86	142.19%	
LEVELIZED PAYMENT		$18.77	$0.00	$23.18	$40.57	$30.15	$4.13	$27.96	$11.08	$0.00	$10.16	$0.00	$97.46	9.75%	

Table - 8
Northern Utilities- New Hampshire
Development of Revenue Requirements Stream

Services Investment

Year No.	Rate Base	Interest On Debt	Return On Preferred	Return On Common	Tax Deprec'N	Book Deprec'N	Deferred Tax	Taxable Income	Inc Tax Payable	Revenue Tax	Property Tax	Property Insurance	ANNUAL Reveue Reqm'Ts	% of Original Investm'T	Present Worth Of Rev Req'Mt
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	1,000.00														
1	980.83	33.56	0.00	41.45	37.50	38.89	(0.55)	70.03	27.74	0.00	12.76	0.00	153.85	15.39%	144.75
2	935.62	32.02	0.00	39.54	72.19	38.89	13.19	32.18	12.75	0.00	12.61	0.00	148.99	14.90%	131.87
3	884.62	30.27	0.00	37.39	66.77	38.89	11.05	34.02	13.48	0.00	12.44	0.00	143.50	14.35%	119.50
4	835.67	28.60	0.00	35.32	61.77	38.89	9.06	35.61	14.10	0.00	12.24	0.00	138.21	13.82%	108.28
5	788.64	26.99	0.00	33.33	57.13	38.89	7.23	36.95	14.63	0.00	12.03	0.00	133.10	13.31%	98.10
6	743.37	25.44	0.00	31.42	52.85	38.89	5.53	38.06	15.08	0.00	11.80	0.00	128.15	12.82%	88.86
7	699.74	23.95	0.00	29.57	48.88	38.89	3.96	38.97	15.44	0.00	11.55	0.00	123.35	12.33%	80.47
8	657.62	22.50	0.00	27.79	45.22	38.89	2.51	39.69	15.72	0.00	11.27	0.00	118.68	11.87%	72.84
9	616.34	21.09	0.00	26.05	44.62	38.89	2.27	37.41	14.82	0.00	10.96	0.00	114.08	11.41%	65.87
10	575.19	19.68	0.00	24.31	44.62	38.89	2.27	34.53	13.68	0.00	10.63	0.00	109.46	10.95%	59.46
11	534.03	18.27	0.00	22.57	44.62	38.89	2.27	31.65	12.54	0.00	10.28	0.00	104.81	10.48%	53.56
12	492.87	16.87	0.00	20.83	44.62	38.89	2.27	28.77	11.39	0.00	9.89	0.00	100.14	10.01%	48.15
13	451.71	15.46	0.00	19.09	44.62	38.89	2.27	25.89	10.25	0.00	9.48	0.00	95.44	9.54%	43.17
14	410.56	14.05	0.00	17.35	44.62	38.89	2.27	23.01	9.11	0.00	9.03	0.00	90.70	9.07%	38.60
15	369.40	12.64	0.00	15.61	44.62	38.89	2.27	20.13	7.97	0.00	8.56	0.00	85.94	8.59%	34.41
16	328.24	11.23	0.00	13.87	44.62	38.89	2.27	17.24	6.83	0.00	8.05	0.00	81.14	8.11%	30.56
17	287.09	9.82	0.00	12.13	44.62	38.89	2.27	14.36	5.69	0.00	7.50	0.00	76.30	7.63%	27.04
18	245.93	8.42	0.00	10.39	44.62	38.89	2.27	11.48	4.55	0.00	6.91	0.00	71.43	7.14%	23.81
19	204.77	7.01	0.00	8.65	44.62	38.89	2.27	8.60	3.41	0.00	6.29	0.00	66.52	6.65%	20.86
20	163.61	5.60	0.00	6.91	44.62	38.89	2.27	5.72	2.27	0.00	5.63	0.00	61.57	6.16%	18.17
21	126.88	4.34	0.00	5.36	22.31	38.89	(6.57)	25.46	10.08	0.00	4.93	0.00	57.04	5.70%	15.83
22	98.97	3.39	0.00	4.18	0.00	38.89	(15.40)	45.82	18.15	0.00	4.18	0.00	53.38	5.34%	13.94
23	75.49	2.58	0.00	3.19	0.00	38.89	(15.40)	44.17	17.50	0.00	3.38	0.00	50.14	5.01%	12.32
24	52.00	1.78	0.00	2.20	0.00	38.89	(15.40)	42.53	16.85	0.00	2.54	0.00	46.85	4.68%	10.83
25	28.52	0.98	0.00	1.21	0.00	38.89	(15.40)	40.88	16.19	0.00	1.65	0.00	43.51	4.35%	9.46
26	5.03	0.17	0.00	0.21	0.00	38.89	(15.40)	39.24	15.54	0.00	0.71	0.00	40.12	4.01%	8.21
27	(18.45)	(0.63)	0.00	(0.78)	0.00	38.89	(15.40)	37.60	14.89	0.00	0.00	0.00	36.97	3.70%	7.12
28	(41.94)	(1.44)	0.00	(1.77)	0.00	38.89	(15.40)	35.95	14.24	0.00	0.00	0.00	34.52	3.45%	6.25
29	(65.42)	(2.24)	0.00	(2.76)	0.00	38.89	(15.40)	34.31	13.59	0.00	0.00	0.00	32.07	3.21%	5.46
30	(88.91)	(3.04)	0.00	(3.76)	0.00	38.89	(15.40)	32.67	12.94	0.00	0.00	0.00	29.62	2.96%	4.75
31	(112.39)	(3.85)	0.00	(4.75)	0.00	38.89	(15.40)	31.02	12.29	0.00	0.00	0.00	27.18	2.72%	4.10
32	(135.88)	(4.65)	0.00	(5.74)	0.00	38.89	(15.40)	29.38	11.64	0.00	0.00	0.00	24.73	2.47%	3.51
33	(159.36)	(5.45)	0.00	(6.74)	0.00	38.89	(15.40)	27.74	10.99	0.00	0.00	0.00	22.28	2.23%	2.97
34	(182.85)	(6.26)	0.00	(7.73)	0.00	38.89	(15.40)	26.09	10.34	0.00	0.00	0.00	19.84	1.98%	2.49
35	(206.33)	(7.06)	0.00	(8.72)	0.00	38.89	(15.40)	24.45	9.68	0.00	0.00	0.00	17.39	1.74%	2.05
36	(229.82)	(7.86)	0.00	(9.71)	0.00	38.89	(15.40)	22.81	9.03	0.00	0.00	0.00	14.94	1.49%	1.66
37	(253.30)	(8.67)	0.00	(10.71)	0.00	38.89	(15.40)	21.16	8.38	0.00	0.00	0.00	12.49	1.25%	1.31
38	(276.79)	(9.47)	0.00	(11.70)	0.00	38.89	(15.40)	19.52	7.73	0.00	0.00	0.00	10.05	1.00%	0.99
39	(300.27)	(10.28)	0.00	(12.69)	0.00	38.89	(15.40)	17.88	7.08	0.00	0.00	0.00	7.60	0.76%	0.70
40	(323.76)	(11.08)	0.00	(13.68)	0.00	38.89	(15.40)	16.23	6.43	0.00	0.00	0.00	5.15	0.52%	0.45
41	(347.24)	(11.88)	0.00	(14.68)	0.00	38.89	(15.40)	14.59	5.78	0.00	0.00	0.00	2.71	0.27%	0.22
42	(370.73)	(12.69)	0.00	(15.67)	0.00	38.89	(15.40)	12.94	5.13	0.00	0.00	0.00	0.26	0.03%	0.02
43	(394.21)	(13.49)	0.00	(16.66)	0.00	38.89	(15.40)	11.30	4.48	0.00	0.00	0.00	(2.19)	-0.22%	(0.16)
44	(417.70)	(14.29)	0.00	(17.65)	0.00	38.89	(15.40)	9.66	3.83	0.00	0.00	0.00	(4.64)	-0.46%	(0.32)
45	(441.18)	(15.10)	0.00	(18.65)	0.00	38.89	(15.40)	8.01	3.17	0.00	0.00	0.00	(7.08)	-0.71%	(0.45)
46	148.54	5.08	0.00	6.28	750.00	0.00	297.08	(739.60)	(292.96)	0.00	0.00	0.00	15.48	1.55%	0.93
47	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
48	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
49	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
50	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
51	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
52	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
53	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
54	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
55	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
56	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
57	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
58	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
59	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
60	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
61	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
62	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
63	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
64	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
65	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
TOTAL		$252.37	$0.00	$311.68	$1,750.00	$1,750.00	($0.00)	$516.10	$204.43	$0.00	$217.30	$0.00	$2,735.78		1,423
PRESENT WORTH		$236.56	$0.00	$292.15	$618.94	$578.33	$16.09	$443.16	$175.54	$0.00	$124.29	$0.00	$1,422.95	142.29%	
LEVELIZED PAYMENT		$15.91	$0.00	$19.65	$41.62	$38.89	$1.08	$29.80	$11.80	$0.00	$8.36	$0.00	$95.68	9.57%	

Table - 8
Northern Utilities- New Hampshire
Development of Revenue Requirements Stream

Metering Equipment

Attachment PMN-2G-2
Table-8

Year No.	Rate Base	Interest On Debt	Return On Preferred	Return On Common	Tax Deprec'N	Book Deprec'N	Deferred Tax	Taxable Income	Inc Tax Payable	Revenue Tax	Property Tax	Property Insurance	ANNUAL Reveue Reqm'Ts	% of Original Investm'T	Present Worth Of Rev Req'Mt
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	1,000.00														
1	982.40	33.62	0.00	41.52	37.50	33.68	1.51	64.93	25.72	0.00	12.76	0.00	148.81	14.88%	140.00
2	940.34	32.18	0.00	39.74	72.19	33.68	15.25	27.30	10.81	0.00	12.68	0.00	144.34	14.43%	127.76
3	892.48	30.54	0.00	37.72	66.77	33.68	13.11	29.37	11.63	0.00	13.03	0.00	139.71	13.97%	116.34
4	846.68	28.97	0.00	35.78	61.77	33.68	11.12	31.17	12.35	0.00	13.40	0.00	135.30	13.53%	106.00
5	802.79	27.47	0.00	33.93	57.13	33.68	9.29	32.73	12.96	0.00	13.77	0.00	131.11	13.11%	96.63
6	760.67	26.03	0.00	32.15	52.85	33.68	7.59	34.07	13.49	0.00	14.16	0.00	127.10	12.71%	88.13
7	720.18	24.65	0.00	30.44	48.88	33.68	6.02	35.20	13.94	0.00	14.55	0.00	123.28	12.33%	80.42
8	681.20	23.31	0.00	28.79	45.22	33.68	4.57	36.14	14.31	0.00	14.96	0.00	119.63	11.96%	73.42
9	643.07	22.01	0.00	27.18	44.62	33.68	4.33	34.07	13.50	0.00	15.38	0.00	116.07	11.61%	67.02
10	605.06	20.71	0.00	25.57	44.62	33.68	4.33	31.41	12.44	0.00	15.81	0.00	112.54	11.25%	61.13
11	567.04	19.40	0.00	23.96	44.62	33.68	4.33	28.75	11.39	0.00	16.25	0.00	109.02	10.90%	55.71
12	529.03	18.10	0.00	22.36	44.62	33.68	4.33	26.09	10.33	0.00	16.71	0.00	105.52	10.55%	50.73
13	491.02	16.80	0.00	20.75	44.62	33.68	4.33	23.43	9.28	0.00	17.17	0.00	102.02	10.20%	46.15
14	453.00	15.50	0.00	19.15	44.62	33.68	4.33	20.77	8.23	0.00	17.66	0.00	98.54	9.85%	41.93
15	414.99	14.20	0.00	17.54	44.62	33.68	4.33	18.11	7.17	0.00	18.15	0.00	95.08	9.51%	38.06
16	376.98	12.90	0.00	15.93	44.62	33.68	4.33	15.45	6.12	0.00	18.66	0.00	91.62	9.16%	34.51
17	338.96	11.60	0.00	14.33	44.62	33.68	4.33	12.79	5.07	0.00	19.18	0.00	88.18	8.82%	31.25
18	300.95	10.30	0.00	12.72	44.62	33.68	4.33	10.13	4.01	0.00	19.72	0.00	84.76	8.48%	28.26
19	262.94	9.00	0.00	11.11	44.62	33.68	4.33	7.47	2.96	0.00	20.27	0.00	81.35	8.14%	25.51
20	224.93	7.70	0.00	9.51	44.62	33.68	4.33	4.81	1.90	0.00	20.84	0.00	77.96	7.80%	23.00
21	191.33	6.55	0.00	8.09	22.31	33.68	(4.51)	24.76	9.81	0.00	21.42	0.00	75.04	7.50%	20.83
22	166.57	5.70	0.00	7.04	0.00	33.68	(13.34)	45.34	17.96	0.00	22.02	0.00	73.06	7.31%	19.08
23	146.23	5.00	0.00	6.18	0.00	33.68	(13.34)	43.92	17.40	0.00	22.64	0.00	71.56	7.16%	17.58
24	125.89	4.31	0.00	5.32	0.00	33.68	(13.34)	42.49	16.83	0.00	23.27	0.00	70.07	7.01%	16.20
25	105.55	3.61	0.00	4.46	0.00	33.68	(13.34)	41.07	16.27	0.00	23.92	0.00	68.60	6.86%	14.92
26	85.21	2.92	0.00	3.60	0.00	33.68	(13.34)	39.65	15.70	0.00	24.59	0.00	67.15	6.72%	13.74
27	64.87	2.22	0.00	2.74	0.00	33.68	(13.34)	38.22	15.14	0.00	25.28	0.00	65.72	6.57%	12.65
28	44.53	1.52	0.00	1.88	0.00	33.68	(13.34)	36.80	14.58	0.00	25.99	0.00	64.31	6.43%	11.65
29	24.19	0.83	0.00	1.02	0.00	33.68	(13.34)	35.38	14.01	0.00	26.72	0.00	62.92	6.29%	10.72
30	3.85	0.13	0.00	0.16	0.00	33.68	(13.34)	33.95	13.45	0.00	27.46	0.00	61.55	6.15%	9.86
31	(16.49)	(0.56)	0.00	(0.70)	0.00	33.68	(13.34)	32.53	12.88	0.00	28.23	0.00	60.20	6.02%	9.08
32	(36.84)	(1.26)	0.00	(1.56)	0.00	33.68	(13.34)	31.10	12.32	0.00	29.02	0.00	58.87	5.89%	8.35
33	15.42	0.53	0.00	0.65	77.84	0.00	30.83	(76.76)	(30.40)	0.00	0.00	0.00	1.61	0.16%	0.21
34	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
35	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
36	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
37	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
38	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
39	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
40	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
41	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
42	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
43	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
44	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
45	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
46	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
47	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
48	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
49	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
50	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
51	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
52	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
53	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
54	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
55	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
56	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
57	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
58	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
59	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
60	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
61	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
62	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
63	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
64	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
65	(0.00)	(0.00)	0.00	(0.00)	0.00	0.00	0.00	(0.00)	(0.00)	0.00	0.00	0.00	(0.00)	0.00%	(0.00)
TOTAL		$436.49	$0.00	$539.06	$1,077.84	$1,077.84	($0.00)	$892.63	$353.57	$0.00	$625.66	$0.00	$3,032.61		1,497
PRESENT WORTH		$264.46	$0.00	$326.60	$584.05	$459.32	$49.41	$416.09	$164.81	$0.00	$232.23	$0.00	$1,496.83	149.68%	
LEVELIZED PAYMENT		$19.39	$0.00	$23.95	$42.83	$33.68	$3.62	$30.51	$12.09	$0.00	$17.03	$0.00	$109.77	10.98%	

Page 11 of 11

Table - 8
Northern Utilities- New Hampshire
Marginal Cost Study

Development of Weighted Plant Book Lives and Salvage

Line No.	Description	2010 Plant Balance	Average Service Life	Net Salvage Value
	(1)	(2)	(3)	(4)
		{1}	{2}	{2}
1				
2				
3				
4				
5	**DISTRIBUTION INVESTMENT (excluding Customer Equip)**			
6				
7				
8	375-Distribution Structures	2,820,320	60	-5%
9	376-Mains	65,458,022	41	-25%
10	378-Distribution M&R Station Equip.	1,787,578	30	-5%
11	383-Dist. House Regulators	222,731	35	0%
12	386-Dist Water Htrs & Conv. Burners	0	10	0%
13				
14	Total Distribution Capacity-Related	$70,288,652	41	-24%
15				
16				
17				
18				
19				
20	380-Services	31,874,279	45	-75%
21				
22	381-Meters	3,506,040	30	0
23	382-Meter Installations	12,313,745	33	-10%
24	Meters	15,819,785	32	-8%
25				
26				
27				
28				
29				
30				

NOTES:
1 Test Year Plant balances taken from 2011 Depreciation report.
2 Service lives and salvage values based on 2011 depreciation study.

Table - 9
Northern Utilities- New Hampshire
Marginal Cost Study

Summary of Marginal Capacity Costs

Line No.	Description		---- PRODUCTION ---- Supply Related	Transp. Related	----------------TRANS & DIST---------------- Mains Reinforce	Mains Extension	Total Dist	Total Prod & Dist
			(1)	(2)	(3)	(4)	(5)	(6)
	PLANT INVESTMENT							
1	Long-Run Unit Costs - $/Design Day Therms	{1}	$0.00	$0.00	$20.50	$71.96	$92.46	$92.46
2	General Plant Loading Factor		5.04%	5.04%	5.04%	5.04%		
3	Unit Costs + Loading Factor	(1)+(1)*(2)	0.00	0.00	21.54	75.59	$97.12	$97.12
4								
5	Fixed Charge Rate		0.00%	0.00%	7.17%	7.17%		
6	A & G Exp Plant-Related Loading Factor		0.33%	0.33%	0.33%	0.33%		
7	Total Rate	(5)+(6)	0.33%	0.33%	7.50%	7.50%		
8								
9	Annualized Cost	(3)*(7)	$0.00	$0.00	$1.61	$5.67	$7.28	$7.28
10								
11	**OPERATING EXPENSES**							
12	Production capacity costs	{2}	$0.03	$0.00				$0.03
13	Distribution capacity costs	{3}			$0.00	$1.62	$1.62	$1.62
14	A&G Exp Non-Plant Loading Factor		54.77%	54.77%	54.77%	54.77%		
15	Total O&M Expense	[(12)+(13)]*[1+(14)]	$0.05	$0.00	$0.00	$2.51	$2.51	$2.56
16								
17	**WORKING CAPITAL**							
18	Materials & Supplies + Prepayments Rate	{4}	1.13%	1.13%	1.13%	1.13%		
19	M&S Cost	(3)*(17)	0.00	0.00	0.24	0.86	$1.10	$1.10
20	Working Cash O&M Allowance {5}	[(9)+(15)]*1.26%	0.00	0.00	0.02	0.10	$0.12	$0.12
21	Total Working Capital	(19)+(20)	$0.00	$0.00	$0.26	$0.96	$1.22	$1.23
22								
23	Working Capital Rev. Req'd {6}	(21)*10.42%	$0.00	$0.00	$0.03	$0.10	$0.13	$0.13
24								
25	System Seasonal Capacity Related Cost		{9}					
26	$/Design Day Therms	(9)+(15)+(23)	$0.00	$0.00	$1.64	$8.27	$9.91	$9.91
27								
28	Loss Factor	{7}	0.005	0.005	0.005	0.005	0.005	0.005
29	Inflation Adjustment	{8}	4.26%	4.26%	4.26%	4.26%	4.26%	4.26%
30								
31	**Seasonal Capacity Cost**	**(26)*[1+(28)]/(29)**	**$0.00**	**$0.00**	**$1.72**	**$8.67**	**$10.39**	**$10.39**

NOTES:
1 Sources: Production taken from Table - 1, Page 1. Distribution taken from Table - 2, page 1.
2 Source: Table - 4, page 2.
3 Source: Table - 5, page 1.
4 Source: Table - 7, page 2.
5 Working cash computed on the basis of 45 days.
6 Revenue requirement for working cash computed as the after tax cost of capital, i.e debt costs plus equity costs increased by taxes equals 10.42%.
7 Source File: NUI Loss Analysis.xls
8 Inflation adjustment to restate marginal costs to rate year dollars (1+.023)^((10/31/2012-12/31/2010)/365)-1
9 Supply capacity costs set to zero since they are not applicable to delivery marginal costs

Table - 10
Northern Utilities- New Hampshire
Marginal Cost Study

Summary of Marginal Commodity Costs

Line No.	Description	--------- Residential --------- ResNonHt&LI R-6&R-11	ResHt&LI R-5&R-10	---------- Small C&I ---------- SmHiW G-40	SmLoW G-50	-------- Medium C&I -------- MdHiW G-41	MdLoW G-51	-------- Large C&I ---------- LgHiW G-42	LgLoW G-52
	PLANT INVESTMENT								
1									
2									
3									
4		**MARGINAL COMMODITY COSTS NOT COMPUTED FOR DISTRIBUTION MARGINAL COST STUDY**							
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

Table - 11
Northern Utilities- New Hampshire
Marginal Cost Study

Summary of Marginal Customer Costs

Line No.	Description		--------- Residential ---------		---------- Small C&I ----------		-------- Medium C&I --------		-------- Large C&I ----------	
			ResNonHt&LI R-6&R-11	**ResHt&LI R-5&R-10**	**SmHiW G-40**	**SmLoW G-50**	**MdHiW G-41**	**MdLoW G-51**	**LgHiW G-42**	**LgLoW G-52**
	(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	PLANT INVESTMENT									
1	Meters and Regulators	{1}	$460.51	$460.51	$3,100.96	$3,100.96	$6,771.92	$6,771.92	$12,046.10	$12,046.10
2	General Plant Loading Factor	{2}	5.04%	5.04%	5.04%	5.04%	5.04%	5.04%	5.04%	5.04%
3	Unit Costs + Loading Factor	(1)+(1)*(2)	483.73	483.73	3,257.33	3,257.33	7,113.40	7,113.40	12,653.53	12,653.53
4	Fixed Charge Rate	{3}	8.46%	8.46%	8.46%	8.46%	8.46%	8.46%	8.46%	8.46%
5	Meters Carrying Costs	(3)*(4)	40.93	40.93	275.63	275.63	601.92	601.92	1,070.71	1,070.71
6	Services	{1}	3,035.34	3,035.34	3,701.52	3,701.52	7,423.90	7,423.90	34,415.64	34,415.64
7	General Plant Loading Factor	{2}	5.04%	5.04%	5.04%	5.04%	5.04%	5.04%	5.04%	5.04%
8	Unit Costs + Loading Factor	(6)+(6)*(7)	3,188.40	3,188.40	3,888.17	3,888.17	7,798.25	7,798.25	36,151.07	36,151.07
9	Fixed Charge Rate	{3}	6.92%	6.92%	6.92%	6.92%	6.92%	6.92%	6.92%	6.92%
10	Services Carrying Costs	(8)*(9)	220.52	220.52	268.92	268.92	539.36	539.36	2,500.37	2,500.37
11										
12	Total Plant Carrying Costs	(5)+(10)	$261.46	$261.46	$544.55	$544.55	$1,141.28	$1,141.28	$3,571.08	$3,571.08
13										
14	A & G Exp Plant-Related Loading Factor	{4}	0.33%	0.33%	0.33%	0.33%	0.33%	0.33%	0.33%	0.33%
15										
16	Annualized Cost	(100%+(14))*(12)	$262.31	$262.31	$546.34	$546.34	$1,145.03	$1,145.03	$3,582.80	$3,582.80
17										
18										
19	**OPERATING EXPENSES**									
20	Plant Related O&M $/Customer	{5}	$36.51	$36.51	$71.05	$71.05	$148.27	$148.27	$485.29	$485.29
21	Customer Acctg & Mktg Expenses	{6}	$42.15	$42.07	$46.88	$47.23	$68.21	$67.80	$96.28	$136.14
22	A&G Exp Non-Plant Loading Factor	{4}	54.77%	54.77%	54.77%	54.77%	54.77%	54.77%	54.77%	54.77%
23	Total O&M Expense	(20+21+[20+21]*22)	$121.75	$121.62	$182.53	$183.07	$335.06	$334.42	$900.10	$961.80
24										
25	**WORKING CAPITAL - $/Customer**									
26	Materials & Supplies + Prepayments Rate	{3}	1.13%	1.13%	1.13%	1.13%	1.13%	1.13%	1.13%	1.13%
27	M&S Cost	[(3)+(8)]*(26)	41.66	41.66	81.06	81.06	169.16	169.16	553.66	553.66
28	Working Cash O&M Allowance	{7} [(16)+(34)]*1.26%	4.82	4.82	9.15	9.16	18.58	18.57	56.27	57.05
29	Total Working Capital	(27)+(28)	$46.48	$46.48	$90.21	$90.22	$187.74	$187.73	$609.93	$610.70
30		{8}								
31	Working Capital Rev. Requirement	(29)* 10.42%	$4.84	$4.84	$9.40	$9.40	$19.56	$19.56	$63.56	$63.64
32										
33	Annual Customer Related Cost		$388.90	$388.78	$738.26	$738.81	$1,499.65	$1,499.01	$4,546.46	$4,608.23
34	$/Customer	(16)+(23)+(31)								
35	Inflation Adjustment	{9}	4.26%	4.26%	4.26%	4.26%	4.26%	4.26%	4.26%	4.26%
36										
37	**Annual Customer Related Cost**	**(33)*[1+(35)]**	**$405.48**	**$405.35**	**$769.73**	**$770.30**	**$1,563.57**	**$1,562.91**	**$4,740.25**	**$4,804.65**

NOTES:
1 Meter investment from Table - 3, Page 1.
2 Source: Table - 7, page 2.
3 Source: Table - 8, page 1.
4 Source: Table - 7, page 1.
5 Source: Table - 6, page 2.
6 Source: Table - 6, page 4.
7 Working cash computed on the basis of 4.58 days net lag.
8 Revenue requirement for working cash computed as tax rate divided by 1 minus tax rate multiplied by the cost of equity all added to the cost of capital.
9 Source: Price escalation to mid-point of rate year.

Table - 12
Northern Utilities- New Hampshire
Marginal Cost Study

Summary of Marginal Cost Estimates

Line No.	Description		--------- Residential ---------		---------- Small C&I ----------		-------- Medium C&I --------		-------- Large C&I ----------		Total Company
			ResNonHt&LI R-6&R-11	ResHt&LI R-5&R-10	SmHiW G-40	SmLoW G-50	MdHiW G-41	MdLoW G-51	LgHiW G-42	LgLoW G-52	
	(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	**UNCOLLECTIBLE FACTOR**		0.81%	1.85%	0.17%	0.21%	0.20%	0.11%	0.01%	0.00%	
2											
3	**CUSTOMER CHARGE $'s per month**										
4	Customer Charge w/o Uncollectibles	{1}	$33.79	$33.78	$64.14	$64.19	$130.30	$130.24	$395.02	$400.39	
5	Adjustment for Uncollectibles	(1)*(4)	0.27	0.63	0.11	0.13	0.26	0.14	0.03	0.00	
6	Customer Charge Incl. Uncollectibles	(4)+(5)	$34.06	$34.40	$64.25	$64.32	$130.56	$130.39	$395.05	$400.39	
7											
8	**WINTER CHARGES**										
9	Gas Supply Demand Charge, Design Day	{3}	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
10	Delivery Demand Charge - Pressure Support	{2}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	Delivery Demand Charge - Reinforcements	{2}	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	
12	Delivery Demand Charge - Main Extensions	{2}	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	
13	Adjustment for Uncollectibles	[(9)+(10)+(11)+(12)]*(1	$0.08	$0.19	$0.02	$0.02	$0.02	$0.01	$0.00	$0.00	
14	Winter Charges Incl. Uncollectibles	(13)+(14)	$10.47	$10.58	$10.41	$10.41	$10.41	$10.40	$10.39	$10.39	
15											
16	Supply Commodity Charge $'s per Therms	{3}	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
17	Adjustment for Uncollectibles	(1)*(16)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	Supply Commodity Charge Incl. Uncollectibles	(17)+(18)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
19											
20	**SUMMER CHARGES**										
21	Demand Charge $'s per Design Day Therm	{2}	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
22	Delivery Demand Charge		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	Adjustment for Uncollectibles	[(21)+(22)]*(1)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	Summer Charges Incl. Uncollectibles		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
25											
26	Commodity Charge $'s per Therms	{3}	$0.00	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	
27	Adjustment for Uncollectibles	(1)*(26)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
28	Commodity Charge Incl. Uncollectibles	(26)+(27)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
29											
30	**CALENDAR MONTH BILLING DETERMINANTS**	**(2010)**									
31	Customers		1,653	20,262	4,416	969	543	234	30	27	28,134
32	Design Day Therms -Sales & Transp		2,492	168,098	100,487	12,439	112,415	21,124	48,711	60,320	526,087
33	Winter Therms -Sales & Transp		242,651	12,947,562	7,326,994	1,351,750	8,741,511	2,312,830	3,926,891	6,934,231	43,784,420
34	Summer Therms -Sales & Transp		118,757	2,871,684	1,183,653	859,566	2,043,743	1,546,729	1,536,441	4,456,197	14,616,770
35											
36	**REVENUES RESULTING FROM FULL MARGINAL COST PRICING**										
37	Total Customer Related	(6)*(31)*12 Mos.	$675,723	$8,365,272	$3,404,535	$747,944	$850,151	$366,468	$142,601	$129,592	14,682,286
38											
39	Winter										
40	Winter Supply Capacity Cost	(1+(1))*(9)*(32)	$0	$0	$0	$0	$0	$0	$0	$0	$0
41	Winter Delivery Pressure Support	(1+(1))*(10)*(32	0	0	0	0	0	0	0	0	0
42	Winter Delivery Reinforcements	(1+(1))*(11)*(32	4,323	294,607	173,195	21,449	193,820	36,388	83,826	103,794	911,401
43	Winter Delivery Main Ext.	(1+(1))*(12)*(32	21,778	1,484,169	872,521	108,054	976,425	183,315	422,296	522,893	4,591,451
44	Winter Supply Commodity	(1+(1))*(16)*(33	0	0	0	0	0	0	0	0	0
45	Total Winter	(40)+(41)+(42)+(43)+(44)	$26,101	$1,778,776	$1,045,716	$129,503	$1,170,245	$219,703	$506,122	$626,687	$5,502,852
46											
47	Summer										
48	Summer Supply Demand	(1+(1))*(21)*(32	$0	$0	$0	$0	$0	$0	$0	$0	$0
49	Delivery Demand Charge	(1+(1))*(22)*(34	0	0	0	0	0	0	0	0	0
50	Summer Supply Commodity	(1+(1))*(26)*(34	0	0	0	0	0	0	0	0	0
51	Total Summer		$0	$0	$0	$0	$0	$0	$0	$0	$0
52											
53	Customer Subtotal	(37)	675,723	8,365,272	3,404,535	747,944	850,151	366,468	142,601	129,592	$14,682,286
54	Supply Subtotal	(40)+(44)+(48)+(50)	0	0	0	0	0	0	0	0	0
55	Delivery Subtotal	(41)+(42)+(43)+(49)	26,101	1,778,776	1,045,716	129,503	1,170,245	219,703	506,122	626,687	5,502,852
56	**Total Marginal Annual Cost**		**$701,824**	**$10,144,047**	**$4,450,251**	**$877,446**	**$2,020,396**	**$586,171**	**$648,723**	**$756,279**	**$20,185,138**

NOTES:
1 Source: Table 11, page 1, line (37)/12
2 Source: Table - 9, page 1.
3 Source: Table - 10, page 1."These values are zeroed out sc production capacity costs that are recovered through the Cost of Gas Factor are excluded from delivery marginal costs.

Table - 13
Northern Utilities- New Hampshire
Marginal Cost Study

Marginal Unit Costs per Therms

Line No.	Description		--------- Residential ---------		---------- Small C&I ----------		-------- Medium C&I --------		-------- Large C&I ----------	
			ResNonHt&LI R-6&R-11	ResHt&LI R-5&R-10	SmHiW G-40	SmLoW G-50	MdHiW G-41	MdLoW G-51	LgHiW G-42	LgLoW G-52
	(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	CUSTOMER CHARGE									
2	Customer Charge (w/ Uncoll) $'s per Month		$34.063	$34.405	$64.250	$64.323	$130.558	$130.386	$395.054	$400.388
3										
4										
5	WINTER CHARGES	{1}								
6	Winter Supply Capacity Cost		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
7	Winter Delivery Pressure Support		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
8	Winter Delivery Reinforcements		$0.0178	$0.0228	$0.0236	$0.0159	$0.0222	$0.0157	$0.0213	$0.0150
9	Winter Delivery Main Ext.		$0.0898	$0.1146	$0.1191	$0.0799	$0.1117	$0.0793	$0.1075	$0.0754
10	Winter Supply Commodity		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
11										
12										
13	SUMMER CHARGES	{1}								
14	Supply Demand Charge		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
15	Delivery Demand Charge		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
16	Commodity Charge $'s per Therms		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
17										
18	**TOTAL CHARGES**									
19	<u>Supply Costs</u>									
20	Customer		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
21	Winter, $/Therm		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
22	Summer, $/Therm		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
23	Annual Avg, $/Therm		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
24										
25	<u>Delivery</u>									
26	Customer	(2)	$34.06	$34.40	$64.25	$64.32	$130.56	$130.39	$395.05	$400.39
27	Winter, $/Therm	(7)+(8)+(9)	$0.1076	$0.1374	$0.1427	$0.0958	$0.1339	$0.0950	$0.1289	$0.0904
28	Summer, $/Therm	(15)	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
29	Annual Avg, $/Therm		$0.0722	$0.1124	$0.1229	$0.0586	$0.1085	$0.0569	$0.0926	$0.0550
30										
31	TEST YEAR CALENDAR MONTH BILLING DETERMINANTS - SALES and TRANSPORTATION LOADS (All Firm Loads)									
32	Customers		1,653	20,262	4,416	969	543	234	30	27
33	Design Day Therms		2,492	168,098	100,487	12,439	112,415	21,124	48,711	60,320
34	Winter Therms		242,651	12,947,562	7,326,994	1,351,750	8,741,511	2,312,830	3,926,891	6,934,231
35	Summer Therms		118,757	2,871,684	1,183,653	859,566	2,043,743	1,546,729	1,536,441	4,456,197
36	Total Annual Therms		361,408	15,819,246	8,510,647	2,211,315	10,785,254	3,859,559	5,463,332	11,390,428

NOTES:
1 Source: Table - 12 revenues divided by billing month normalized determinants.

Table - 14
Northern Utilities- New Hampshire
Marginal Cost Study

Derivation of Marginal Prices Equi-Porportionately Constrained by Embedded Costs

Line No.	Description		--------- Residential --------- ResNonHt&LI R-6&R-11	ResHt&LI R-5&R-10	---------- Small C&I ---------- SmHiW G-40	SmLoW G-50	-------- Medium C&I -------- MdHiW G-41	MdLoW G-51	-------- Large C&I ---------- LgHiW G-42	LgLoW G-52	Total Company
	(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Estimated Delivery Revenue Reqm'ts	{1}									$19,918,638
2	Total Marginal Annual Revenue Requirements	{2}	701,824	10,144,047	4,450,251	877,446	2,020,396	586,171	648,723	756,279	20,185,138
3	Difference	(1) - (2)									(266,500)
4	% Difference	(3)/(2)									-1.32%
5	Equi-proportional Adjustment	(2) x (4)	(9,266)	(133,930)	(58,756)	(11,585)	(26,675)	(7,739)	(8,565)	(9,985)	(266,500)
6	Marginal Cost Constained to Allowed Revenues	(2) + (5)	692,558	10,010,118	4,391,495	865,862	1,993,722	578,432	640,158	746,294	19,918,638
7											
8	Marginal Unit Prices	Unit Costs from									
9	Customer	Table 14 X	$33.61	$33.95	$63.40	$63.47	$128.83	$128.66	$389.84	$395.10	
10		[1+ (4)]									
11	WINTER CHARGES										
12	Winter Supply Capacity Cost		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
13	Winter Delivery Pressure Support		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
14	Winter Delivery Reinforcements		$0.0176	$0.0225	$0.0233	$0.0157	$0.0219	$0.0155	$0.0211	$0.0148	
15	Winter Delivery Main Ext.		$0.0886	$0.1131	$0.1175	$0.0789	$0.1102	$0.0782	$0.1061	$0.0744	
16	Winter Supply Commodity		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
17			$0.1061	$0.1356	$0.1408	$0.0945	$0.1321	$0.0937	$0.1272	$0.0892	
18											
19	SUMMER CHARGES										
20	Supply Demand Charge		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
21	Delivery Demand Charge		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
22	Commodity Charge $'s per Therms		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
23			$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
24	TOTAL CHARGES										
25	Supply Costs										
26	Customer		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
27	Winter, $/Therm		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
28	Summer, $/Therm		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
29	Annual Avg, $/Therm		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
30											
31											
32	Delivery										
33	Customer Charges		$33.61	$33.95	$63.40	$63.47	$128.83	$128.66	$389.84	$395.10	
34	Winter, $/Therm		$0.1061	$0.1356	$0.1408	$0.0945	$0.1321	$0.0937	$0.1272	$0.0892	
35	Summer, $/Therm		$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
36	Annual Avg, $/Therm		$0.0713	$0.1110	$0.1212	$0.0578	$0.1071	$0.0562	$0.0914	$0.0543	
37	or										
38	Facilities Charge, $/Month	(6) / Annual bills	$ 34.91	$ 41.17	$ 82.88	$ 74.46	$ 306.18	$ 205.80	$ 1,773.46	$ 2,305.75	

Table - 14
Northern Utilities- New Hampshire
Marginal Cost Study

Page 2 of 2

Derivation of Marginal Prices Inverse Elasticty Constrained by Embedded Costs

Line No.	Description		--------- Residential --------- ResNonHt&LI R-6&R-11	ResHt&LI R-5&R-10	---------- Small C&I ---------- SmHiW G-40	SmLoW G-50	-------- Medium C&I -------- MdHiW G-41	MdLoW G-51	-------- Large C&I ---------- LgHiW G-42	LgLoW G-52	Total Company
	(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	MARGINAL COSTS										
1	Marginal Customer Related Costs	{2}	$675,723	$8,365,272	$3,404,535	$747,944	$850,151	$366,468	$142,601	$129,592	$14,682,286
2	Total Marginal Annual Revenue Requirements	{2}	701,824	10,144,047	4,450,251	877,446	2,020,396	586,171	648,723	756,279	$20,185,138
3	Non-Customer Costs	(2)-(1)	$26,101	$8,365,272	$3,404,535	$747,944	$850,151	$366,468	$142,601	$129,592	$14,032,665
4											
5	RECONCILIATION										
6	Total Estiimated Delivery Revenue Requirments										19,918,638
7	Customer Cost Adjusted to Meet Rev Req'd	(6)-(3)									5,885,973
8	Constrained Customer Revenues	(1)*(7)/(1)	270,890	3,353,549	1,364,842	299,843	340,817	146,913	57,167	51,952	
9											
10	CUSTOMER CHARGE (If allowed to be negative)										
11	Average Number of Monthly Bills		1,653	20,262	4,416	969	543	234	30	27	28,134
12	Customer Charge (w/ Uncoll) $'s per Month	(8)/(11)/12	$13.66	$13.79	$25.76	$25.79	$52.34	$52.27	$158.37	$160.51	$17.43
13											
14	CUSTOMER CHARGE (If constrained to be non-negative)		NOT APPLICABLE								
15	Customer Charge (w/ Uncoll) $'s per Month		$13.66	$13.79	$25.76	$25.79	$52.34	$52.27	$158.37	$160.51	$17.43
16	Customer-Related Revenue	(11)*(15)*12 Months	$270,890	$3,353,549	$1,364,842	$299,843	$340,817	$146,913	$57,167	$51,952	$5,885,973
17	Adjmt to Winter Demand Charge	(8)-(16) {4}	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
18	Adjmt to Winter Demand Chrg, $/Therms										
19											
20	WINTER CHARGES (Adjusted for Non-negative Customer Charge)										
21	Winter Billing Units		242,651	12,947,562	7,326,994	1,351,750	8,741,511	2,312,830	3,926,891	6,934,231	43,784,420
22	Marginal Winter Demand Charge Revenues (Unadjusted)		0	0	0	0	0	0	0	0	0
23	Adjusted Winter Demand Revenue	(33)+(37)	0	0	0	0	0	0	0	0	0
24	Adjusted Winter Demand Rate	(38)/(36)	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
	Commodity Charge	(18)	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
	Total Winter	(39)+(40)	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000

NOTES:
1 Source: Company's Accounting Cost Study
2 Source: Table - 12.
3 Source: Table - 13.
4 Assumes the Demand Charge is the second least elastic component of rates.

	SUMMARY OF RESULTS-1	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	RATE BASE				
1	GAS PLANT IN SERVICE		131,165,787	51,166,854	2,751,180
2	LESS: DEPREC & AMORT RES		48,958,719	19,848,006	1,097,562
3	NET UTILITY PLANT IN SERVICE		82,207,068	31,318,848	1,653,618
	ADD:				
4	WORKING CASH REQUIREMENT		183,098	75,662	4,333
5	MATERIALS & SUPPLIES		820,863	313,297	16,894
6	PREPAYMENTS		219,278	83,301	4,264
	DEDUCT:				
7	CUSTOMER DEP, ADV & UNCLAIMED		996,418	534,634	27,098
8	DEFERRED TAXES		12,871,497	5,018,489	270,667
9	RATE BASE		69,562,392	26,237,984	1,381,343
	DEVELOPMENT OF RETURN				
10	SALES OF GAS TO ULTIMATE CUST		61,195,976	27,837,046	756,372
11	OTHER OPERATING REVENUES		1,164,539	419,698	17,556
12	TOTAL GAS OPERATING REVENUES		62,360,515	28,256,744	773,927
	LESS:				
13	PURCHASED GAS COSTS		42,188,892	19,193,325	427,977
14	OTHER OPER & MAINT EXPENSE		9,334,281	3,966,669	223,737
15	DEPRECIATION EXPENSE		4,329,077	1,788,650	104,457
16	OTHER TAXES		2,393,765	935,787	50,508
17	INCOME TAXES		715,084	594,391	(31,064)
18	INTEREST ON CUSTOMER DEPOSITS		19,313	11,589	581
19	TOTAL OPERATING EXPENSE		58,980,410	26,490,410	776,196
20	OPERATING INCOME		3,380,105	1,766,334	(2,269)
21	RATE OF RETURN		4.86%	6.73%	-0.16%
22	RELATIVE RATE OF RETURN		1.000	1.385	-0.034

	SUMMARY OF RESULTS-1	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	RATE BASE							
1	GAS PLANT IN SERVICE		25,963,141	5,510,766	18,589,005	5,954,438	7,635,842	13,594,562
2	LESS: DEPREC & AMORT RES		9,747,801	2,031,570	6,719,554	2,126,772	2,685,753	4,701,700
3	NET UTILITY PLANT IN SERVICE		16,215,340	3,479,195	11,869,451	3,827,666	4,950,089	8,892,861
	ADD:							
4	WORKING CASH REQUIREMENT		37,845	8,068	24,151	7,904	9,146	15,990
5	MATERIALS & SUPPLIES		161,786	35,104	117,387	38,357	49,277	88,762
6	PREPAYMENTS		42,049	8,766	32,257	10,068	13,839	24,733
	DEDUCT:							
7	CUSTOMER DEP, ADV & UNCLAIMED		156,865	78,424	52,588	43,754	57,621	45,435
8	DEFERRED TAXES		2,551,723	541,856	1,822,975	584,396	748,499	1,332,891
9	RATE BASE		13,748,432	2,910,853	10,167,682	3,255,845	4,216,232	7,644,020
	DEVELOPMENT OF RETURN							
10	SALES OF GAS TO ULTIMATE CUST		12,450,012	2,619,516	10,468,737	3,343,823	2,178,127	1,542,342
11	OTHER OPERATING REVENUES		207,282	46,289	185,152	60,579	80,285	147,698
12	TOTAL GAS OPERATING REVENUES		12,657,294	2,665,805	10,653,889	3,404,402	2,258,412	1,690,040
	LESS:							
13	PURCHASED GAS COSTS		9,139,524	1,843,323	7,794,983	2,517,366	1,143,887	128,508
14	OTHER OPER & MAINT EXPENSE		1,971,439	422,038	1,206,576	399,362	422,041	722,419
15	DEPRECIATION EXPENSE		855,274	184,019	568,930	185,914	231,713	410,120
16	OTHER TAXES		475,034	100,970	338,194	108,566	138,396	246,309
17	INCOME TAXES		(94,512)	7,103	161,970	33,597	71,878	(28,281)
18	INTEREST ON CUSTOMER DEPOSITS		2,984	1,924	167	832	1,044	192
19	TOTAL OPERATING EXPENSE		12,349,743	2,559,377	10,070,819	3,245,638	2,008,959	1,479,267
20	OPERATING INCOME		307,551	106,428	583,070	158,764	249,453	210,774
21	RATE OF RETURN		2.24%	3.66%	5.73%	4.88%	5.92%	2.76%
22	RELATIVE RATE OF RETURN		0.460	0.752	1.180	1.004	1.218	0.567

	DEVELOPMENT OF RATE BASE-2	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	GAS PLANT IN SERVICE				
	INTANGIBLE PLANT				
1	303-MISC INTNGBLE PLANT - 8 YR	LABOR	1,757,809	706,480	39,983
2	303-MISC INTNGBLE PLANT - 5 YR	LABOR	538,217	216,314	12,242
3	303-MISC INTNG PLT - AMORT ADJ	LABOR	29,333	11,789	667
4	TOTAL INTANGIBLE PLANT		2,325,358	934,584	52,892
	PRODUCTION PLANT				
5	304-LAND	DEMLPG	52,494	24,893	299
6	305-STRUCTURES	DEMLPG	169,854	80,545	969
7	310-LAND & LAND RIGHTS	DEMLPG	0	0	0
8	311-LPG GAS EQUIPMENT	DEMLPG	862,270	408,888	4,918
9	320-OTHER EQUIPMENT	DEMLPG	34,055	16,149	194
10	321-LNG EQUIPMENT	DEMLPG	27,657	13,115	158
11	TOTAL PRODUCTION PLANT		1,146,330	543,590	6,538
	OTHER STORAGE PLANT				
12	360-LAND	DEMLNG	28,358	13,447	162
13	361-STRUCTURES & IMPROVE	DEMLPG	182,976	86,767	1,044
14	362-GAS HOLDERS	DEMLPG	1,533,321	727,101	8,745
15	363-PURIFICATION EQUIPMENT	DEMLPG	42,469	20,139	242
16	TOTAL OTHER STORAGE PLANT		1,787,124	847,455	10,193

	DEVELOPMENT OF RATE BASE-2	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	GAS PLANT IN SERVICE							
	INTANGIBLE PLANT							
1	303-MISC INTNGBLE PLANT - 8 YR	LABOR	360,519	77,998	238,161	78,741	92,365	163,560
2	303-MISC INTNGBLE PLANT - 5 YR	LABOR	110,386	23,882	72,922	24,110	28,281	50,080
3	303-MISC INTNG PLT - AMORT ADJ	LABOR	6,016	1,302	3,974	1,314	1,541	2,729
4	TOTAL INTANGIBLE PLANT		476,921	103,182	315,057	104,165	122,188	216,369
	PRODUCTION PLANT							
5	304-LAND	DEMLPG	13,756	688	10,233	1,135	1,429	61
6	305-STRUCTURES	DEMLPG	44,510	2,225	33,112	3,672	4,623	199
7	310-LAND & LAND RIGHTS	DEMLPG	0	0	0	0	0	0
8	311-LPG GAS EQUIPMENT	DEMLPG	225,959	11,294	168,093	18,641	23,466	1,009
9	320-OTHER EQUIPMENT	DEMLPG	8,924	446	6,639	736	927	40
10	321-LNG EQUIPMENT	DEMLPG	7,247	362	5,391	598	753	32
11	TOTAL PRODUCTION PLANT		300,397	15,015	223,469	24,782	31,197	1,342
	OTHER STORAGE PLANT							
12	360-LAND	DEMLNG	7,431	371	5,528	613	772	33
13	361-STRUCTURES & IMPROVE	DEMLPG	47,949	2,397	35,670	3,956	4,980	214
14	362-GAS HOLDERS	DEMLPG	401,808	20,084	298,910	33,149	41,729	1,795
15	363-PURIFICATION EQUIPMENT	DEMLPG	11,129	556	8,279	918	1,156	50
16	TOTAL OTHER STORAGE PLANT		468,318	23,408	348,387	38,636	48,636	2,092

		ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	DEVELOPMENT OF RATE BASE CON'T-3				
	DISTRIBUTION PLANT				
1	374.4-LAND RIGHTS	DISTR	89,111	25,325	515
2	374.5-RIGHT OF WAY	DISTR	17,911	5,090	104
3	375-STRUCTURES & IMPROVE	DISTR	2,820,320	801,527	16,308
4	376-MAINS	DISTR	65,443,047	18,598,715	378,415
5	378-MEAS & REG STATION EQ	DISTR	1,787,578	508,024	10,336
6	380-SERVICES	CUST380	31,874,279	20,802,676	1,690,343
7	381-METERS	CUST3813	3,506,040	998,722	81,152
8	382-METER INSTALLATION	CUST3813	12,313,745	3,507,664	285,019
9	383-HOUSE REGULATORS	CUST3813	222,731	63,447	5,155
10	386-CONV BURNERS & WAT HEATER	CUST386	2,523,018	717,034	14,589
11	TOTAL DISTRIBUTION PLANT		120,597,781	46,028,224	2,481,936
	GENERAL & COMMON PLANT				
12	389.1-LAND	LABOR	232,947	93,624	5,299
13	391-OFFICE EQUIPMENT	LABOR	602,092	241,987	13,695
14	392-TRANSPORTATION EQUIP	LABOR	22,974	9,233	523
15	393-STORES EQUIPMENT	DISTRPLT	31,520	12,030	649
16	394-TOOLS, SHOP & GARAGE EQ	DISTRPLT	874,077	333,607	17,989
17	396-POWER OPERATED EQUIP	DISTRPLT	75,266	28,727	1,549
18	397-COMMUNICATION EQUIP	LABOR	1,030,686	414,242	23,444
19	397-COMM EQ METSCAN - TELEMET	CUST397M	112,656	0	0
20	397-COMM EQUIP - ITRON	CUST397I	2,326,975	1,679,553	136,474
21	TOT GENERAL & COMMON PLT		5,309,194	2,813,002	199,620
22	TOTAL GAS PLANT IN SERVICE		131,165,787	51,166,854	2,751,180

		ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DEVELOPMENT OF RATE BASE CON'T-3							
	DISTRIBUTION PLANT							
1	374.4-LAND RIGHTS	DISTR	14,142	3,025	17,252	5,239	8,205	15,407
2	374.5-RIGHT OF WAY	DISTR	2,842	608	3,467	1,053	1,649	3,097
3	375-STRUCTURES & IMPROVE	DISTR	447,590	95,747	546,007	165,827	259,693	487,622
4	376-MAINS	DISTR	10,385,933	2,221,718	12,669,621	3,847,858	6,025,951	11,314,836
5	378-MEAS & REG STATION EQ	DISTR	283,692	60,686	346,071	105,104	164,599	309,065
6	380-SERVICES	CUST380	5,528,345	1,215,496	1,370,796	587,932	363,584	315,107
7	381-METERS	CUST3813	1,465,573	322,230	394,322	169,124	40,134	34,783
8	382-METER INSTALLATION	CUST3813	5,147,317	1,131,721	1,384,918	593,989	140,956	122,162
9	383-HOUSE REGULATORS	CUST3813	93,105	20,471	25,050	10,744	2,550	2,210
10	386-CONV BURNERS & WAT HEATER	CUST386	400,408	85,654	488,450	148,346	232,318	436,219
11	TOTAL DISTRIBUTION PLANT		23,768,947	5,157,355	17,245,956	5,635,217	7,239,639	13,040,506
	GENERAL & COMMON PLANT							
12	389.1-LAND	LABOR	47,776	10,336	31,561	10,435	12,240	21,675
13	391-OFFICE EQUIPMENT	LABOR	123,487	26,716	81,576	26,971	31,637	56,023
14	392-TRANSPORTATION EQUIP	LABOR	4,712	1,019	3,113	1,029	1,207	2,138
15	393-STORES EQUIPMENT	DISTRPLT	6,212	1,348	4,507	1,473	1,892	3,408
16	394-TOOLS, SHOP & GARAGE EQ	DISTRPLT	172,274	37,380	124,996	40,843	52,472	94,516
17	396-POWER OPERATED EQUIP	DISTRPLT	14,834	3,219	10,763	3,517	4,518	8,139
18	397-COMMUNICATION EQUIP	LABOR	211,389	45,734	139,645	46,170	54,158	95,903
19	397-COMM EQ METSCAN - TELEMET	CUST397M	1,942	5,827	15,539	1,942	34,962	52,444
20	397-COMM EQUIP - ITRON	CUST397I	365,930	80,226	44,434	19,258	1,094	7
21	TOT GENERAL & COMMON PLT		948,558	211,806	456,135	151,638	194,182	334,252
22	TOTAL GAS PLANT IN SERVICE		25,963,141	5,510,766	18,589,005	5,954,438	7,635,842	13,594,562

		ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	DEVELOPMENT OF RATE BASE CON'T-4				
	DEPRECIATION & AMORTIZATION RESERVE				
	INTANGIBLE PLANT RESERVE				
1	303-MISC INTNGBLE PLANT - 8 YR	PLT303	226,668	91,100	5,156
2	303-MISC INTNGBLE PLANT - 5 YR	PLT303	37,261	14,976	848
3	303-MISC INTNGBLE PLANT - 3 YR	PLT303	0	0	0
4	TOT INTANGIBLE PLT RESERVE		263,930	106,076	6,003
	PRODUCTION PLANT RESERVE				
5	305-STRUCTURES	PLT305	93,495	44,336	533
7	311-LPG GAS EQUIPMENT	PLT311	671,661	318,502	3,831
8	320-OTHER EQUIPMENT	PLT320	21,585	10,236	123
9	321-LNG EQUIPMENT	PLT321	28,803	13,659	164
10	TOTAL PRODUCTION RESERVE		815,545	386,732	4,652
	OTHER STORAGE PLANT				
11	361-STRUCTURES & IMPROVE	PLT361	44,954	21,317	256
12	362-GAS HOLDERS	PLT362	1,108,556	525,677	6,323
13	363-PURIFICATION EQUIPMENT	PLT363	47,452	22,502	271
14	TOTAL OTHER STORAGE PLANT		1,200,962	569,496	6,850

		ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DEVELOPMENT OF RATE BASE CON'T-4							
	DEPRECIATION & AMORTIZATION RESERVE							
	INTANGIBLE PLANT RESERVE							
1	303-MISC INTNGBLE PLANT - 8 YR	PLT303	46,489	10,058	30,711	10,154	11,910	21,091
2	303-MISC INTNGBLE PLANT - 5 YR	PLT303	7,642	1,653	5,048	1,669	1,958	3,467
3	303-MISC INTNGBLE PLANT - 3 YR	PLT303	0	0	0	0	0	0
4	TOT INTANGIBLE PLT RESERVE		54,131	11,711	35,759	11,823	13,868	24,558
	PRODUCTION PLANT RESERVE							
5	305-STRUCTURES	PLT305	24,501	1,225	18,226	2,021	2,544	109
7	311-LPG GAS EQUIPMENT	PLT311	176,010	8,798	130,936	14,521	18,279	786
8	320-OTHER EQUIPMENT	PLT320	5,656	283	4,208	467	587	25
9	321-LNG EQUIPMENT	PLT321	7,548	377	5,615	623	784	34
10	TOTAL PRODUCTION RESERVE		213,714	10,682	158,985	17,631	22,195	955
	OTHER STORAGE PLANT							
11	361-STRUCTURES & IMPROVE	PLT361	11,780	589	8,763	972	1,223	53
12	362-GAS HOLDERS	PLT362	290,498	14,520	216,105	23,966	30,169	1,298
13	363-PURIFICATION EQUIPMENT	PLT363	12,435	622	9,250	1,026	1,291	56
14	TOTAL OTHER STORAGE PLANT		314,713	15,730	234,119	25,964	32,684	1,406

	DEVELOPMENT OF RATE BASE CON'T-5	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	DISTRIBUTION PLANT RESERVE				
1	375-STRUCTURES & IMPROVE	PLT375	728,698	207,094	4,214
2	376-MAINS	PLT376	21,331,867	6,062,452	123,348
3	378-MEAS & REG STATION EQ	PLT378	1,019,359	289,699	5,894
4	380-SERVICES	PLT380	13,670,062	8,921,735	724,945
5	381-METERS	PLT381	1,743,494	496,647	40,356
6	382-METER INSTALLATION	PLT382	4,016,684	1,144,183	92,972
7	383-HOUSE REGULATORS	PLT383	53,587	15,265	1,240
8	386-CONV BURNERS & WAT HEATER	PLT386	1,960,990	557,307	11,339
9	TOTAL DISTRIBUTION PLANT		44,524,741	17,694,382	1,004,308
	GENERAL & COMMON PLT RESERVE				
10	391-OFFICE EQUIPMENT	PLT391	433,041	174,043	9,850
11	392-TRANSPORTATION EQUIP	PLT392	47,597	19,130	1,083
12	393-STORES EQUIPMENT	PLT393	36,157	13,800	744
13	394-TOOLS, SHOP & GARAGE EQ	PLT394	406,405	155,112	8,364
14	396-POWER OPERATED EQUIP	PLT396	45,268	17,277	932
15	397-COMMUNICATION EQUIP	PLT397	517,998	208,188	11,782
16	397-COMM EQ METSCAN - TELEMET	PLT397M	57,442	0	0
17	397-COMM EQUIP - ITRON	PLT397I	801,841	578,749	47,027
18	TOTAL GENERAL PLT RESERVE		2,345,748	1,166,298	79,781
19	RESERVE VARIANCE ADJ & BLDG OH	PLANT	(192,206)	(74,978)	(4,031)
20	TOTAL DEPRECIATION RESERVE		48,958,719	19,848,006	1,097,562

		ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DEVELOPMENT OF RATE BASE CON'T-5							
	DISTRIBUTION PLANT RESERVE							
1	375-STRUCTURES & IMPROVE	PLT375	115,646	24,738	141,074	42,845	67,098	125,989
2	376-MAINS	PLT376	3,385,407	724,193	4,129,800	1,254,251	1,964,224	3,688,193
3	378-MEAS & REG STATION EQ	PLT378	161,774	34,606	197,346	59,935	93,862	176,243
4	380-SERVICES	PLT380	2,370,966	521,295	587,899	252,149	155,932	135,141
5	381-METERS	PLT381	728,805	160,239	196,090	84,102	19,958	17,297
6	382-METER INSTALLATION	PLT382	1,679,030	369,162	451,754	193,756	45,979	39,849
7	383-HOUSE REGULATORS	PLT383	22,400	4,925	6,027	2,585	613	532
8	386-CONV BURNERS & WAT HEATER	PLT386	311,213	66,573	379,643	115,300	180,567	339,047
9	TOTAL DISTRIBUTION PLANT		8,775,240	1,905,732	6,089,632	2,004,925	2,528,233	4,522,290
	GENERAL & COMMON PLT RESERVE							
10	391-OFFICE EQUIPMENT	PLT391	88,815	19,215	58,672	19,398	22,754	40,293
11	392-TRANSPORTATION EQUIP	PLT392	9,762	2,112	6,449	2,132	2,501	4,429
12	393-STORES EQUIPMENT	PLT393	7,126	1,546	5,171	1,690	2,171	3,910
13	394-TOOLS, SHOP & GARAGE EQ	PLT394	80,100	17,380	58,118	18,990	24,397	43,945
14	396-POWER OPERATED EQUIP	PLT396	8,922	1,936	6,473	2,115	2,717	4,895
15	397-COMMUNICATION EQUIP	PLT397	106,239	22,985	70,182	23,204	27,219	48,198
16	397-COMM EQ METSCAN - TELEMET	PLT397M	990	2,971	7,923	990	17,827	26,740
17	397-COMM EQUIP - ITRON	PLT397I	126,094	27,645	15,311	6,636	377	2
18	TOTAL GENERAL PLT RESERVE		428,048	95,790	228,299	75,156	99,963	172,413
19	RESERVE VARIANCE ADJ & BLDG OH	PLANT	(38,046)	(8,075)	(27,240)	(8,725)	(11,189)	(19,921)
20	TOTAL DEPRECIATION RESERVE		9,747,801	2,031,570	6,719,554	2,126,772	2,685,753	4,701,700

	DEVELOPMENT OF RATE BASE CON'T-6	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	ADDITIONS TO NET PLANT				
	WORKING CAPITAL REQUIREMENTS				
	CASH WORKING CAPITAL REQ				
1	PURCHASED GAS		0	0	0
2	OTHER O&M	REVCLAIM	183,098	75,662	4,333
3	TOTAL CASH WORKING CAP		183,098	75,662	4,333
	MATERIALS & SUPPLIES				
4	RENTAL EQUIP REPAIR PARTS	PLT386	0	0	0
5	OTHER	DISTRPLT	820,863	313,297	16,894
6	TOTAL MATERIALS & SUPPLIES		820,863	313,297	16,894
7	TOTAL WORKING CAPITAL		1,003,961	388,958	21,227
	PREPAYMENTS				
8	PREPAYMENTS - OTHER	PLANT	408,637	159,406	8,571
9	PREPAYMENTS - PENSION	EXP926	177,633	71,393	4,040
10	PREPAYMENTS - OPEB	EXP926	(366,993)	(147,498)	(8,348)
11	TOTAL PREPAYMENTS		219,278	83,301	4,264
12	TOTAL ADDITIONS TO NET PLT		1,223,239	472,259	25,491

		ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DEVELOPMENT OF RATE BASE CON'T-6							
	ADDITIONS TO NET PLANT							
	WORKING CAPITAL REQUIREMENTS							
	CASH WORKING CAPITAL REQ							
1	PURCHASED GAS		0	0	0	0	0	0
2	OTHER O&M	REVCLAIM	37,845	8,068	24,151	7,904	9,146	15,990
3	TOTAL CASH WORKING CAP		37,845	8,068	24,151	7,904	9,146	15,990
	MATERIALS & SUPPLIES							
4	RENTAL EQUIP REPAIR PARTS	PLT386	0	0	0	0	0	0
5	OTHER	DISTRPLT	161,786	35,104	117,387	38,357	49,277	88,762
6	TOTAL MATERIALS & SUPPLIES		161,786	35,104	117,387	38,357	49,277	88,762
7	TOTAL WORKING CAPITAL		199,631	43,173	141,537	46,261	58,423	104,751
	PREPAYMENTS							
8	PREPAYMENTS - OTHER	PLANT	80,886	17,168	57,913	18,551	23,789	42,353
9	PREPAYMENTS - PENSION	EXP926	36,432	7,882	24,067	7,957	9,334	16,528
10	PREPAYMENTS - OPEB	EXP926	(75,269)	(16,284)	(49,723)	(16,440)	(19,284)	(34,148)
11	TOTAL PREPAYMENTS		42,049	8,766	32,257	10,068	13,839	24,733
12	TOTAL ADDITIONS TO NET PLT		241,680	51,939	173,794	56,329	72,262	129,485

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

		ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	DEVELOPMENT OF RATE BASE CON'T-7				
	DEDUCTIONS TO NET PLANT				
1	CUSTOMER DEPOSITS	CUSTDEP	672,184	403,360	20,205
2	CUSTOMER ADVANCES	PLT37680	324,234	131,274	6,893
3	UNCLAIMED FUNDS	PLANT	0	0	0
	ACCUM DEFERRED INCOME TAX				
4	ACCEL DEP & AMORT & SETT ADJ	PLANT	12,418,878	4,844,517	260,484
5	FAS 87 / 106	EXP926	241,753	97,163	5,499
6	SFAS 109 ACCT FOR INCOME TAXES	REVCLAIM	0	0	0
7	BAD DEBT	EXP904	(23,037)	(15,815)	(381)
8	PREPAID PROPERTY TAXES	PLANT	118,210	46,113	2,479
9	DEFERRED RATE CASE COSTS	REVCLAIM	60,841	25,141	1,440
10	REMEDIATION	PSPLT	0	0	0
11	UNAMORT ITC (ACCT 255)	PLANT	71,077	27,727	1,491
12	ACCUM NON-CURRENT	PLANT	(13,780)	(5,375)	(289)
13	INSURANCE CLAIM	EXP9245	(2,445)	(982)	(55)
14	OTHER	PLANT	0	0	0
15	TOTAL ACCUM DEF INCOME TAX		12,871,497	5,018,489	270,667
16	TOTAL DEDUCTIONS TO NET PLT		13,867,915	5,553,123	297,765
17	TOTAL RATE BASE		69,562,392	26,237,984	1,381,343

	DEVELOPMENT OF RATE BASE CON'T-7	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DEDUCTIONS TO NET PLANT							
1	CUSTOMER DEPOSITS	CUSTDEP	103,843	66,972	5,809	28,975	36,332	6,687
2	CUSTOMER ADVANCES	PLT37680	53,022	11,452	46,779	14,779	21,288	38,748
3	UNCLAIMED FUNDS	PLANT	0	0	0	0	0	0
	ACCUM DEFERRED INCOME TAX							
4	ACCEL DEP & AMORT & SETT ADJ	PLANT	2,458,210	521,764	1,760,021	563,771	722,967	1,287,144
5	FAS 87 / 106	EXP926	49,583	10,727	32,755	10,829	12,703	22,495
6	SFAS 109 ACCT FOR INCOME TAXES	REVCLAIM	0	0	0	0	0	0
7	BAD DEBT	EXP904	(2,884)	(581)	(2,367)	(688)	(299)	(22)
8	PREPAID PROPERTY TAXES	PLANT	23,399	4,966	16,753	5,366	6,882	12,252
9	DEFERRED RATE CASE COSTS	REVCLAIM	12,575	2,681	8,025	2,626	3,039	5,313
10	REMEDIATION	PSPLT	0	0	0	0	0	0
11	UNAMORT ITC (ACCT 255)	PLANT	14,069	2,986	10,073	3,227	4,138	7,367
12	ACCUM NON-CURRENT	PLANT	(2,728)	(579)	(1,953)	(626)	(802)	(1,428)
13	INSURANCE CLAIM	EXP9245	(501)	(108)	(332)	(110)	(129)	(228)
14	OTHER	PLANT	0	0	0	0	0	0
15	TOTAL ACCUM DEF INCOME TAX		2,551,723	541,856	1,822,975	584,396	748,499	1,332,891
16	TOTAL DEDUCTIONS TO NET PLT		2,708,588	620,280	1,875,563	628,150	806,119	1,378,326
17	TOTAL RATE BASE		13,748,432	2,910,853	10,167,682	3,255,845	4,216,232	7,644,020

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

	REVENUES-8	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	GAS OPERATING REVENUES				
1	TOTAL FIRM SALES OF GAS		60,243,868	27,566,460	750,866
2	SPECIAL CONTRACT REVENUES	DISTR	952,108	270,586	5,505
3	TOTAL REVENUE SALES OF GAS		61,195,976	27,837,046	756,372
	OTHER OPERATING REVENUES				
	487-LATE PAYMENT CHARGES				
4	RESIDENTIAL HEATING - R-5 & R-10	C488RH	73,976	73,976	0
5	RESIDENTIAL NON-HTG- R-6 & R-11	C488RNH	3,706	0	3,706
6	C&I SMALL - LLF G40	C488G40	19,045	0	0
7	C&I SMALL - HLF G50	C488G50	5,314	0	0
8	C&I MEDIUM - LLF G41	C488G41	12,283	0	0
9	C&I MEDIUM - HLF G51	C488G51	6,663	0	0
10	C&I LARGE - LLF G42	C488G42	1,065	0	0
11	C&I LARGE - HLF G52	C488G52	1,226	0	0
12	TOTAL ACCOUNT 487		123,279	73,976	3,706
	488-MISC SERVICE REVENUE				
13	RENTAL REVENUE	PLANT	2,106	821	44
14	RECONNECT FEE	CUST488R	88,295	65,533	5,347
15	POOL ADMINISTRATION	CUSTTRAN	999	0	0
16	3RD PARTY BILLING	CUSTTRAN	6,947	0	0
17	CUSTOMER TELEMETERING	PLT397M	7,288	0	0
18	WATER HEAT & CONVER BURN REV	PLT386	752,074	213,737	4,349
19	UNH REVENUE	PLT381	62,389	17,772	1,444
20	TOTAL ACCOUNT 488		920,096	297,863	11,184
	495-ACCR REV - NON DIST BAD DEBT	EXP904	0	0	0
	OTHER REVENUES				
21	RENTAL INCOME - GRANITE	GENPLT	6,168	2,436	136
22	RENTAL INCOME - USOURCE	GENPLT	33,084	13,068	728
23	RENTAL INCOME - USC	GENPLT	81,912	32,354	1,803
24	TOTAL OTHER REVENUES		121,164	47,859	2,666
25	TOTAL OTHER OPERATING REV		1,164,539	419,698	17,556
26	TOTAL GAS OPERATING REVENUE		62,360,515	28,256,744	773,927

	REVENUES-8	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	GAS OPERATING REVENUES							
1	TOTAL FIRM SALES OF GAS		12,298,911	2,587,193	10,284,411	3,287,842	2,090,458	1,377,726
2	SPECIAL CONTRACT REVENUES	DISTR	151,101	32,323	184,326	55,981	87,669	164,616
3	TOTAL REVENUE SALES OF GAS		12,450,012	2,619,516	10,468,737	3,343,823	2,178,127	1,542,342
	OTHER OPERATING REVENUES							
	487-LATE PAYMENT CHARGES							
4	RESIDENTIAL HEATING - R-5 & R-10	C488RH	0	0	0	0	0	0
5	RESIDENTIAL NON-HTG- R-6 & R-11	C488RNH	0	0	0	0	0	0
6	C&I SMALL - LLF G40	C488G40	19,045	0	0	0	0	0
7	C&I SMALL - HLF G50	C488G50	0	5,314	0	0	0	0
8	C&I MEDIUM - LLF G41	C488G41	0	0	12,283	0	0	0
9	C&I MEDIUM - HLF G51	C488G51	0	0	0	6,663	0	0
10	C&I LARGE - LLF G42	C488G42	0	0	0	0	1,065	0
11	C&I LARGE - HLF G52	C488G52	0	0	0	0	0	1,226
12	TOTAL ACCOUNT 487		19,045	5,314	12,283	6,663	1,065	1,226
	488-MISC SERVICE REVENUE							
13	RENTAL REVENUE	PLANT	417	88	298	96	123	218
14	RECONNECT FEE	CUST488R	14,282	3,134	0	0	0	0
15	POOL ADMINISTRATION	CUSTTRAN	435	101	279	120	24	39
16	3RD PARTY BILLING	CUSTTRAN	3,025	699	1,943	837	170	274
17	CUSTOMER TELEMETERING	PLT397M	126	377	1,005	126	2,262	3,392
18	WATER HEAT & CONVER BURN REV	PLT386	119,355	25,532	145,600	44,220	69,250	130,030
19	UNH REVENUE	PLT381	26,079	5,734	7,017	3,010	714	619
20	TOTAL ACCOUNT 488		163,718	35,665	156,142	48,408	72,543	134,573
	495-ACCR REV - NON DIST BAD DEBT	EXP904	0	0	0	0	0	0
	OTHER REVENUES							
21	RENTAL INCOME - GRANITE	GENPLT	1,248	270	852	280	340	606
22	RENTAL INCOME - USOURCE	GENPLT	6,695	1,450	4,567	1,504	1,823	3,249
23	RENTAL INCOME - USC	GENPLT	16,576	3,590	11,309	3,723	4,514	8,044
24	TOTAL OTHER REVENUES		24,519	5,310	16,728	5,508	6,677	11,899
25	TOTAL OTHER OPERATING REV		207,282	46,289	185,152	60,579	80,285	147,698
26	TOTAL GAS OPERATING REVENUE		12,657,294	2,665,805	10,653,889	3,404,402	2,258,412	1,690,040

	OPER & MAINT EXPENSE-9	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	OPERATION & MAINTENANCE EXPENSE				
	LIQUEFIED PROPANE GAS PRODUCTION				
	OPERATION EXPENSE				
1	710-SUPERVISION	TLABPO	972	461	6
2	717-PROPANE EXPENSES	DEMLPG	5,517	2,616	31
3	718-DISPATCHING PRODUCTION	GASCOSTS	0	0	0
4	723-FUEL LPG GAS PROCESS	DEMLPG	4,781	2,267	27
5	728-LIQUID PETROLEUM GAS	EGAS	0	0	0
6	735-MISCELLANEOUS	DEMLPG	19,818	9,398	113
7	736-RENTS	DEMLPG	0	0	0
8	TOTAL OPERATION EXPENSE		31,089	14,742	177
	MAINTENANCE				
9	740-SUPERVISION	TLABPM	972	461	6
10	741-MAINTENANCE OF PLANT	DEMLPG	2,407	1,141	14
11	742-MAINT OF EQUIPMENT	DEMLPG	8,277	3,925	47
12	769-MAINT OF SCADA PRODUCTION	DEMLPG	657	312	4
13	TOTAL MAINTENANCE EXPENSE		12,314	5,839	70
14	TOTAL MANUF GAS PROD EXP		43,403	20,581	248

	OPER & MAINT EXPENSE-9	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	OPERATION & MAINTENANCE EXPENSE							
	LIQUEFIED PROPANE GAS PRODUCTION							
	OPERATION EXPENSE							
1	710-SUPERVISION	TLABPO	255	13	189	21	26	1
2	717-PROPANE EXPENSES	DEMLPG	1,446	72	1,076	119	150	6
3	718-DISPATCHING PRODUCTION	GASCOSTS	0	0	0	0	0	0
4	723-FUEL LPG GAS PROCESS	DEMLPG	1,253	63	932	103	130	6
5	728-LIQUID PETROLEUM GAS	EGAS	0	0	0	0	0	0
6	735-MISCELLANEOUS	DEMLPG	5,193	260	3,863	428	539	23
7	736-RENTS	DEMLPG	0	0	0	0	0	0
8	TOTAL OPERATION EXPENSE		8,147	407	6,061	672	846	36
	MAINTENANCE							
9	740-SUPERVISION	TLABPM	255	13	189	21	26	1
10	741-MAINTENANCE OF PLANT	DEMLPG	631	32	469	52	66	3
11	742-MAINT OF EQUIPMENT	DEMLPG	2,169	108	1,614	179	225	10
12	769-MAINT OF SCADA PRODUCTION	DEMLPG	172	9	128	14	18	1
13	TOTAL MAINTENANCE EXPENSE		3,227	161	2,400	266	335	14
14	TOTAL MANUF GAS PROD EXP		11,374	568	8,461	938	1,181	51

	OPER & MAINT EXPENSE CON'T-10	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	PURCHASED GAS SUPPLY EXPENSES				
	PURCHASED GAS SUPPLY				
	804 PURCHASED GAS COSTS				
1	TOTAL DIRECT GAS COSTS	EGAS	42,184,110	19,191,057	427,950
2	TOTAL DIRECT GAS COSTS		42,184,110	19,191,057	427,950
3	813-OTHER GAS SUPPLY EXP	GASCOSTS	125,576	57,129	1,274
4	813-OTH GAS SUPP EXP-DEL SERV	DISTR	65,073	18,493	376
5	TOTAL GAS SUPPLY EXPENSE		42,374,759	19,266,680	429,600
6	TOTAL PRODUCTION EXPENSE		42,418,162	19,287,261	429,847
	TRANSMISSION EXPENSES				
7	852-COMMUNICATION SYSTEM EXP	DISTR	30,680	8,719	177
8	856-MAINS EXPENSE	DISTR	3	1	0
9	857-T&D OPER MEAS & REGUL STNQ	DISTR	821	233	5
10	TOTAL TRANSMISSION EXPENSES		31,504	8,953	182

	OPER & MAINT EXPENSE CON'T-10	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	PURCHASED GAS SUPPLY EXPENSES							
	PURCHASED GAS SUPPLY							
	804 PURCHASED GAS COSTS							
1	TOTAL DIRECT GAS COSTS	EGAS	9,138,272	1,843,260	7,794,050	2,517,263	1,143,756	128,502
2	TOTAL DIRECT GAS COSTS		9,138,272	1,843,260	7,794,050	2,517,263	1,143,756	128,502
3	813-OTHER GAS SUPPLY EXP	GASCOSTS	27,203	5,487	23,202	7,494	3,405	383
4	813-OTH GAS SUPP EXP-DEL SERV	DISTR	10,327	2,209	12,598	3,826	5,992	11,251
5	TOTAL GAS SUPPLY EXPENSE		9,175,802	1,850,956	7,829,850	2,528,582	1,153,153	140,135
6	TOTAL PRODUCTION EXPENSE		9,187,176	1,851,525	7,838,311	2,529,520	1,154,334	140,186
	TRANSMISSION EXPENSES							
7	852-COMMUNICATION SYSTEM EXP	DISTR	4,869	1,042	5,940	1,804	2,825	5,304
8	856-MAINS EXPENSE	DISTR	1	0	1	0	0	1
9	857-T&D OPER MEAS & REGUL STNQ	DISTR	130	28	159	48	76	142
10	TOTAL TRANSMISSION EXPENSES		5,000	1,070	6,099	1,852	2,901	5,447

	OPER & MAINT EXPENSE CON'T-11	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	DISTRIBUTION EXPENSES				
	OPERATION EXPENSE				
1	870-SUPER & ENGINEERING	TLABDO	30,859	10,207	489
2	851-SYS CONTROL & LOAD DISTR	DISTR	0	0	0
3	851-SYS CNTRL & LD GAS SUPPLY	GASCOSTS	0	0	0
4	857-MEAS & REG STA EQUIP	PLT378	0	0	0
5	874-MAINS & SERVICE EXPENSE	PLT37680	562,176	227,611	11,951
6	875-REGULAT STATION EXPENSE	PLT378	152,142	43,238	880
7	878-METER & HOUSE REG EXP	PLT3813	804,803	229,254	18,628
8	879-CUSTOMER INSTALL EXP	PLT3803	39,486	20,909	1,699
9	880-OTHER EXPENSES	EXP8519	17,078	5,709	363
10	880-USC-GAS DISTR - DELIVERY	DISTR	515,868	146,608	2,983
11	880-USC-GAS DISTR - SUPPLY	GASCOSTS	174,174	79,238	1,767
12	882-METERING SYS GAS TRAINING	PLT381	4,413	1,257	102
13	TOTAL OPERATION EXPENSE		2,300,999	764,031	38,862
	MAINTENANCE				
14	885-SUPERVISION	TLABDM	68,440	23,796	928
15	886-MAINT STRUCT & IMPROVE	PLT375	5,588	1,588	32
16	887-MAINTENANCE OF MAINS	PLT376	257,655	73,225	1,490
17	889-MT OF MEAS & REG STA EQ	PLT378	20,567	5,845	119
18	890-MT OF REG EQ (INDUST)	PLT378	(526)	(149)	(3)
19	891-MT OF REG EQ (CITY GATE)	PLT378	15,280	4,343	88
20	891-MAIN DISTRI SCADA	E880USC	13,616	4,456	94
21	892-MAINTENANCE OF SERVICES	PLT380	71,698	46,793	3,802
22	893-MAINT METER & HOUSE REG	PLT3813	103,807	29,570	2,403
23	894-T&D MAINT SYSTEM EQUIP	DISTR	1,327	377	8
24	894-MNT WAT HTERS & CONV BURN	PLT386	222,510	63,237	1,287
25	894-MAINT OF RENTED CONV BURN	PLT386	1,412	401	8
26	TOTAL MAINTENANCE EXPENSE		781,373	253,482	10,255
27	586-INTERVAL DATA	DISTR	172	49	1
28	TOTAL DISTRIBITION EXPENSES		3,082,544	1,017,562	49,119

	OPER & MAINT EXPENSE CON'T-11	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DISTRIBUTION EXPENSES							
	OPERATION EXPENSE							
1	870-SUPER & ENGINEERING	TLABDO	7,551	1,636	4,747	1,600	1,695	2,933
2	851-SYS CONTROL & LOAD DISTR	DISTR	0	0	0	0	0	0
3	851-SYS CNTRL & LD GAS SUPPLY	GASCOSTS	0	0	0	0	0	0
4	857-MEAS & REG STA EQUIP	PLT378	0	0	0	0	0	0
5	874-MAINS & SERVICE EXPENSE	PLT37680	91,933	19,856	81,108	25,624	36,911	67,183
6	875-REGULAT STATION EXPENSE	PLT378	24,145	5,165	29,454	8,946	14,009	26,305
7	878-METER & HOUSE REG EXP	PLT3813	336,419	73,967	90,516	38,822	9,213	7,984
8	879-CUSTOMER INSTALL EXP	PLT3803	10,082	2,217	2,616	1,122	451	391
9	880-OTHER EXPENSES	EXP8519	5,068	1,109	2,232	816	664	1,116
10	880-USC-GAS DISTR - DELIVERY	DISTR	81,869	17,513	99,871	30,331	47,501	89,191
11	880-USC-GAS DISTR - SUPPLY	GASCOSTS	37,731	7,611	32,181	10,394	4,722	531
12	882-METERING SYS GAS TRAINING	PLT381	1,845	406	496	213	51	44
13	TOTAL OPERATION EXPENSE		596,643	129,479	343,221	117,868	115,216	195,678
	MAINTENANCE							
14	885-SUPERVISION	TLABDM	11,110	2,384	11,562	3,577	5,310	9,773
15	886-MAINT STRUCT & IMPROVE	PLT375	887	190	1,082	329	515	966
16	887-MAINTENANCE OF MAINS	PLT376	40,890	8,747	49,881	15,149	23,725	44,547
17	889-MT OF MEAS & REG STA EQ	PLT378	3,264	698	3,982	1,209	1,894	3,556
18	890-MT OF REG EQ (INDUST)	PLT378	(83)	(18)	(102)	(31)	(48)	(91)
19	891-MT OF REG EQ (CITY GATE)	PLT378	2,425	519	2,958	898	1,407	2,642
20	891-MAIN DISTRI SCADA	E880USC	2,360	496	2,606	804	1,030	1,770
21	892-MAINTENANCE OF SERVICES	PLT380	12,435	2,734	3,083	1,322	818	709
22	893-MAINT METER & HOUSE REG	PLT3813	43,393	9,541	11,675	5,007	1,188	1,030
23	894-T&D MAINT SYSTEM EQUIP	DISTR	211	45	257	78	122	229
24	894-MNT WAT HTERS & CONV BURN	PLT386	35,313	7,554	43,077	13,083	20,489	38,471
25	894-MAINT OF RENTED CONV BURN	PLT386	224	48	273	83	130	244
26	TOTAL MAINTENANCE EXPENSE		152,428	32,937	130,335	41,509	56,579	103,847
27	586-INTERVAL DATA	DISTR	27	6	33	10	16	30
28	TOTAL DISTRIBITION EXPENSES		749,098	162,423	473,590	159,387	171,811	299,555

	OPER & MAINT EXPENSE CON'T-12	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	CUSTOMER ACCOUNT				
1	901-SUPERVISION	TLABCA	0	0	0
2	902-METER READING EXPENSE	CUST902	124,019	87,709	7,127
3	903-CUST RECORDS & COLLECT	CUST903	1,112,845	739,311	60,582
	904-UNCOLLECTIBLE ACCTS				
4	RESIDENTIAL HEATING - R-5 & R-10	C904RH	159,331	159,331	0
5	RESIDENTIAL NON-HTG- R-6 & R-11	C904RNH	4,096	0	4,096
6	C&I SMALL - LLF G40	C904G40	7,083	0	0
7	C&I SMALL - HLF G50	C904G50	1,909	0	0
8	C&I MEDIUM - LLF G41	C904G41	5,436	0	0
9	C&I MEDIUM - HLF G51	C904G51	1,001	0	0
10	C&I LARGE - LLF G42	C904G42	92	0	0
11	C&I LARGE - HLF G52	C904G52	0	0	0
12	CGA BAD DEBT EXPENSE	E904GAS	160,113	73,434	1,509
13	BAD DEBT EXP ADJ DELIVERY	EXP904B	4,662	4,151	107
14	BAD DEBT EXP ADJ COST OF GAS	E904GAS	4,172	1,913	39
15	TOTAL ACCOUNT 904		347,894	238,830	5,751
16	TOTAL CUSTOMER ACCTS EXP		1,584,758	1,065,849	73,459
	CUSTOMER SERVICES & INFO EXP				
17	907-CUST SERV & INFO SUPRV	TLABSE	0	0	0
18	909-INFO & INSTRUCT ADVERTISING	CUST908	2,357	1,168	77
19	TOT CUST SERV & INFO EXP		2,357	1,168	77

	OPER & MAINT EXPENSE CON'T-12	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	CUSTOMER ACCOUNT							
1	901-SUPERVISION	TLABCA	0	0	0	0	0	0
2	902-METER READING EXPENSE	CUST902	19,153	4,319	2,665	1,049	833	1,165
3	903-CUST RECORDS & COLLECT	CUST903	198,150	43,961	44,223	19,021	3,238	4,361
	904-UNCOLLECTIBLE ACCTS							
4	RESIDENTIAL HEATING - R-5 & R-10	C904RH	0	0	0	0	0	0
5	RESIDENTIAL NON-HTG- R-6 & R-11	C904RNH	0	0	0	0	0	0
6	C&I SMALL - LLF G40	C904G40	7,083	0	0	0	0	0
7	C&I SMALL - HLF G50	C904G50	0	1,909	0	0	0	0
8	C&I MEDIUM - LLF G41	C904G41	0	0	5,436	0	0	0
9	C&I MEDIUM - HLF G51	C904G51	0	0	0	1,001	0	0
10	C&I LARGE - LLF G42	C904G42	0	0	0	0	92	0
11	C&I LARGE - HLF G52	C904G52	0	0	0	0	0	0
12	CGA BAD DEBT EXPENSE	E904GAS	35,362	6,642	29,405	9,126	4,307	327
13	BAD DEBT EXP ADJ DELIVERY	EXP904B	185	50	142	26	2	0
14	BAD DEBT EXP ADJ COST OF GAS	E904GAS	921	173	766	238	112	9
15	TOTAL ACCOUNT 904		43,550	8,774	35,749	10,391	4,514	336
16	TOTAL CUSTOMER ACCTS EXP		260,852	57,054	82,637	30,460	8,585	5,861
	CUSTOMER SERVICES & INFO EXP							
17	907-CUST SERV & INFO SUPRV	TLABSE	0	0	0	0	0	0
18	909-INFO & INSTRUCT ADVERTISING	CUST908	357	85	240	88	112	231
19	TOT CUST SERV & INFO EXP		357	85	240	88	112	231

	OPER & MAINT EXPENSE CON'T-13	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	ADMINISTRATIVE & GENERAL EXPENSE				
1	920-ADMIN & GENERAL SALARY	LABOR	29,106	11,698	662
2	921-OFFICE SUPPLIES & EXP	LABOR	206,996	83,194	4,708
3	923-OUTSIDE SERV EMPLOYED	LABOR	238,816	95,982	5,432
4	923-OUTSIDE SERV PEN & PBOP	LABOR	(391,541)	(157,364)	(8,906)
5	923-OUTSIDE SERV UNITIL	LABOR	2,271,469	912,925	51,666
6	924-PROPERTY INSURANCE	PLANT	8,015	3,127	168
7	925-INJURIES & DAMAGES	LABOR	262,313	105,426	5,967
8	PROPERTY & LIABILITY INSUR ADJ	EXP9245	34,364	13,799	780
9	926-EMPLOYED PENSION & BENF	LABOR	1,050,249	422,105	23,889
10	PENSION PBOP & 401K ADJ	LABOR	287,359	115,492	6,536
11	MEDICAL & DENTAL ADJUSTMENT	LABOR	32,631	13,115	742
12	OTHER ADJUSTMENT ACCT 926	LABOR	0	0	0
13	928-REGULATORY COMM EXPENSE	REVCLAIM	111,270	45,980	2,633
14	SETTLEMENT ADJUSTMENTS	TOTAG	(77,470)	(31,265)	(1,737)
15	GAS SUPPLY LEGAL COSTS ACCT 923	GASCOSTS	15,000	6,824	152
16	930-MISC GEN EXP & EEI ADJ	LABOR	70,664	28,401	1,607
17	930-SAFETY AWARENESS PROG ADJ	LABOR	1,461	587	33
18	931-RENTS	LABOR	12,961	5,209	295
19	TOTAL OPERATION EXPENSE		4,163,663	1,675,235	94,628
	MAINTENANCE				
20	932-ERC COSTS	PSPLT	74,917	35,526	427
21	932 & 935-MAINT OF GENERAL PLT	GENPLT	21,214	8,379	467
22	TOTAL ADMIN & GEN EXPENSE		4,259,794	1,719,140	95,522
23	WAGE ADJ & INCENTIVE COMP	OMLAB	163,290	68,079	3,976
24	UNION BONUS	OMLAB	(19,236)	(8,020)	(468)
25	TOTAL GAS O & M EXPENSE		51,523,173	23,159,993	651,714

	OPER & MAINT EXPENSE CON'T-13	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	ADMINISTRATIVE & GENERAL EXPENSE							
1	920-ADMIN & GENERAL SALARY	LABOR	5,969	1,291	3,943	1,304	1,529	2,708
2	921-OFFICE SUPPLIES & EXP	LABOR	42,454	9,185	28,045	9,272	10,877	19,260
3	923-OUTSIDE SERV EMPLOYED	LABOR	48,980	10,597	32,357	10,698	12,549	22,221
4	923-OUTSIDE SERV PEN & PBOP	LABOR	(80,303)	(17,374)	(53,049)	(17,539)	(20,574)	(36,432)
5	923-OUTSIDE SERV UNITIL	LABOR	465,869	100,791	307,756	101,751	119,356	211,355
6	924-PROPERTY INSURANCE	PLANT	1,587	337	1,136	364	467	831
7	925-INJURIES & DAMAGES	LABOR	53,799	11,639	35,540	11,750	13,783	24,408
8	PROPERTY & LIABILITY INSUR ADJ	EXP9245	7,041	1,522	4,662	1,540	1,811	3,208
9	926-EMPLOYED PENSION & BENF	LABOR	215,402	46,602	142,296	47,046	55,186	97,723
10	PENSION PBOP & 401K ADJ	LABOR	58,936	12,751	38,934	12,872	15,100	26,738
11	MEDICAL & DENTAL ADJUSTMENT	LABOR	6,692	1,448	4,421	1,462	1,715	3,036
12	OTHER ADJUSTMENT ACCT 926	LABOR	0	0	0	0	0	0
13	928-REGULATORY COMM EXPENSE	REVCLAIM	22,998	4,903	14,677	4,803	5,558	9,717
14	SETTLEMENT ADJUSTMENTS	TOTAG	(15,969)	(3,394)	(10,584)	(3,440)	(4,027)	(7,054)
15	GAS SUPPLY LEGAL COSTS ACCT 923	GASCOSTS	3,249	655	2,771	895	407	46
16	930-MISC GEN EXP & EEI ADJ	LABOR	14,493	3,136	9,574	3,165	3,713	6,575
17	930-SAFETY AWARENESS PROG ADJ	LABOR	300	65	198	65	77	136
18	931-RENTS	LABOR	2,658	575	1,756	581	681	1,206
19	TOTAL OPERATION EXPENSE		854,155	184,730	564,433	186,590	218,208	385,683
	MAINTENANCE							
20	932-ERC COSTS	PSPLT	19,632	981	14,605	1,620	2,039	88
21	932 & 935-MAINT OF GENERAL PLT	GENPLT	4,293	930	2,929	964	1,169	2,083
22	TOTAL ADMIN & GEN EXPENSE		878,080	186,641	581,967	189,174	221,416	387,854
23	WAGE ADJ & INCENTIVE COMP	OMLAB	34,459	7,440	21,213	7,081	7,674	13,367
24	UNION BONUS	OMLAB	(4,059)	(876)	(2,499)	(834)	(904)	(1,575)
25	TOTAL GAS O & M EXPENSE		11,110,963	2,265,361	9,001,558	2,916,728	1,565,928	850,927

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

		ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	DEPRECIATION & AMORTIZATION-14				
	DEPRECIATION & AMORTIZATION EXPENSE				
	AMORTIZATION EXPENSE				
1	INTANGIBLE AMORTIZATION	PLT303	0	0	0
2	TRANSITION & TRANACTION AMORT	PLANT	0	0	0
3	COMPUTER SOFT & SETTLS ADJ	LABOR	168,814	67,848	3,840
4	OTHER AMORTIZATIONS	PLANT	156,712	61,132	3,287
5	FAS 109 NET REG ASSET AMORT	REVCLAIM	106,680	44,083	2,525
6	AMORT INVESTMENT TAX CREDIT	PLANT	(12,840)	(5,009)	(269)
7	GRANITE RATE CASE COSTS ADJ	REVCLAIM	0	0	0
8	TOTAL AMORTIZATION EXPENSE		419,366	168,055	9,382
	DEPRECIATION EXPENSE				
	PRODUCTION PLANT EXP				
9	305-STRUCTURES	PLT305	1,063	504	6
10	311-LPG GAS EQUIPMENT	PLT311	9,348	4,433	53
11	361-STRUCTURES & IMPROVE	PLT361	4,001	1,897	23
12	362-GAS HOLDERS	PLT362	34,380	16,303	196
13	TOTAL PRODUCTION PLANT		48,791	23,137	278

	DEPRECIATION & AMORTIZATION-14	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DEPRECIATION & AMORTIZATION EXPENSE							
	AMORTIZATION EXPENSE							
1	INTANGIBLE AMORTIZATION	PLT303	0	0	0	0	0	0
2	TRANSITION & TRANACTION AMORT	PLANT	0	0	0	0	0	0
3	COMPUTER SOFT & SETTLS ADJ	LABOR	34,623	7,491	22,872	7,562	8,870	15,708
4	OTHER AMORTIZATIONS	PLANT	31,020	6,584	22,209	7,114	9,123	16,242
5	FAS 109 NET REG ASSET AMORT	REVCLAIM	22,050	4,701	14,071	4,605	5,329	9,316
6	AMORT INVESTMENT TAX CREDIT	PLANT	(2,542)	(539)	(1,820)	(583)	(747)	(1,331)
7	GRANITE RATE CASE COSTS ADJ	REVCLAIM	0	0	0	0	0	0
8	TOTAL AMORTIZATION EXPENSE		85,151	18,236	57,333	18,699	22,575	39,935
	DEPRECIATION EXPENSE							
	PRODUCTION PLANT EXP							
9	305-STRUCTURES	PLT305	279	14	207	23	29	1
10	311-LPG GAS EQUIPMENT	PLT311	2,450	122	1,822	202	254	11
11	361-STRUCTURES & IMPROVE	PLT361	1,048	52	780	86	109	5
12	362-GAS HOLDERS	PLT362	9,009	450	6,702	743	936	40
13	TOTAL PRODUCTION PLANT		12,786	639	9,511	1,055	1,328	57

	DEPRECIATION & AMORTIZATION-15	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	DISTRIBUTION EXPENSE				
1	375-STRUCTURES & IMPROVE	PLT375	20,218	5,746	117
2	376-MAINS	PLT376	1,909,817	542,764	11,043
3	378.2-MEAS & REG STATION EQ	PLT378	44,655	12,691	258
4	380-SERVICES	PLT380	1,176,056	767,550	62,368
5	381-METERS	PLT381	78,904	22,476	1,826
6	382-METER INSTALLATION	PLT382	415,788	118,440	9,624
7	383-HOUSE REGULATORS	PLT383	6,605	1,881	153
8	386-OTHER PROP CUST PREM	PLT386	88,323	25,101	511
9	TOTAL DISTRIBUTION PLANT		3,740,366	1,496,650	85,900
	GENERAL & COMMON PLANT EXP				
10	391-OFFICE EQUIPMENT	PLT391	38,334	15,407	872
11	393-STORES EQUIPMENT	PLT393	0	0	0
12	394-TOOLS, SHOP & GARAGE EQ	PLT394	36,384	13,887	749
13	396-POWER OPERATED EQUIP	PLT396	4,459	1,702	92
14	397-COMMUNICATION EQUIP	PLT397	81,140	32,611	1,846
15	397-COMM EQ METSCAN - TELEMET	PLT397M	7,918	0	0
16	397-COMM EQUIP - ITRON	PLT397I	168,239	121,431	9,867
17	BLDG OVERHEAD CLEARING	LABOR	0	0	0
18	TOTAL GEN & COMMON EXP		336,473	185,037	13,425
19	ADJ BLDG OH & RESERVE VARIANCE	PLANT	(215,919)	(84,228)	(4,529)
20	TOTAL DEPR & AMORT EXPENSE		4,329,077	1,788,650	104,457

	DEPRECIATION & AMORTIZATION-15	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DISTRIBUTION EXPENSE							
1	375-STRUCTURES & IMPROVE	PLT375	3,209	686	3,914	1,189	1,862	3,496
2	376-MAINS	PLT376	303,092	64,836	369,736	112,292	175,855	330,200
3	378.2-MEAS & REG STATION EQ	PLT378	7,087	1,516	8,645	2,626	4,112	7,721
4	380-SERVICES	PLT380	203,978	44,848	50,578	21,693	13,415	11,626
5	381-METERS	PLT381	32,983	7,252	8,874	3,806	903	783
6	382-METER INSTALLATION	PLT382	173,805	38,214	46,763	20,057	4,760	4,125
7	383-HOUSE REGULATORS	PLT383	2,761	607	743	319	76	66
8	386-OTHER PROP CUST PREM	PLT386	14,017	2,998	17,099	5,193	8,133	15,271
9	TOTAL DISTRIBUTION PLANT		740,931	160,957	506,353	167,173	209,114	373,286
	GENERAL & COMMON PLANT EXP							
10	391-OFFICE EQUIPMENT	PLT391	7,862	1,701	5,194	1,717	2,014	3,567
11	393-STORES EQUIPMENT	PLT393	0	0	0	0	0	0
12	394-TOOLS, SHOP & GARAGE EQ	PLT394	7,171	1,556	5,203	1,700	2,184	3,934
13	396-POWER OPERATED EQUIP	PLT396	879	191	638	208	268	482
14	397-COMMUNICATION EQUIP	PLT397	16,641	3,600	10,993	3,635	4,264	7,550
15	397-COMM EQ METSCAN - TELEMET	PLT397M	137	410	1,092	137	2,457	3,686
16	397-COMM EQUIP - ITRON	PLT397I	26,457	5,800	3,213	1,392	79	0
17	BLDG OVERHEAD CLEARING	LABOR	0	0	0	0	0	0
18	TOTAL GEN & COMMON EXP		59,146	13,258	26,332	8,789	11,266	19,220
19	ADJ BLDG OH & RESERVE VARIANCE	PLANT	(42,739)	(9,072)	(30,600)	(9,802)	(12,570)	(22,379)
20	TOTAL DEPR & AMORT EXPENSE		855,274	184,019	568,930	185,914	231,713	410,120

	STATE & FED TAXES & OTHER EXP-16	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	TAXES OTHER THAN INCOME				
	FEDERAL TAXES				
1	UNEMPLOYMENT	LABOR	2,320	932	53
2	FICA	LABOR	222,428	89,396	5,059
3	FICA ADJUSTMENT	LABOR	0	0	0
4	TOTAL FEDERAL TAXES		224,748	90,328	5,112
	STATE TAXES				
5	UNEMPLOYMENT	LABOR	3,531	1,419	80
6	PROPERTY TAX	PLANT	1,490,429	581,406	31,262
7	PROPERTY TAX CAPITALIZED	PLANT	0	0	0
8	PROPERTY TAX ADJUST	PLANT	734,338	286,460	15,403
9	TOTAL STATE TAXES		2,228,298	869,285	46,744
10	PAYROLL TAXES CAPITALIZED	LABOR	(70,447)	(28,313)	(1,602)
11	PAYROLL TAXES ADJUSTMENT	LABOR	11,139	4,477	253
12	TAXES - OTHER	PLANT	26	10	1
13	TOTAL TAXES OTHER THAN INC		2,393,765	935,787	50,508
14	TOTAL INCOME TAX EXPENSE		715,084	594,391	(31,064)
15	INTEREST ON CUSTOMER DEPOSITS	CUSTDEP	19,313	11,589	581
16	TOTAL EXPENSES		58,980,410	26,490,410	776,196

	STATE & FED TAXES & OTHER EXP-16	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	TAXES OTHER THAN INCOME							
	FEDERAL TAXES							
1	UNEMPLOYMENT	LABOR	476	103	314	104	122	216
2	FICA	LABOR	45,619	9,870	30,136	9,964	11,688	20,696
3	FICA ADJUSTMENT	LABOR	0	0	0	0	0	0
4	TOTAL FEDERAL TAXES		46,095	9,973	30,451	10,068	11,810	20,912
	STATE TAXES							
5	UNEMPLOYMENT	LABOR	724	157	478	158	186	329
6	PROPERTY TAX	PLANT	295,018	62,619	211,226	67,660	86,766	154,474
7	PROPERTY TAX CAPITALIZED	PLANT	0	0	0	0	0	0
8	PROPERTY TAX ADJUST	PLANT	145,356	30,852	104,071	33,336	42,750	76,110
9	TOTAL STATE TAXES		441,098	93,627	315,776	101,154	129,701	230,913
10	PAYROLL TAXES CAPITALIZED	LABOR	(14,448)	(3,126)	(9,545)	(3,156)	(3,702)	(6,555)
11	PAYROLL TAXES ADJUSTMENT	LABOR	2,285	494	1,509	499	585	1,036
12	TAXES - OTHER	PLANT	5	1	4	1	2	3
13	TOTAL TAXES OTHER THAN INC		475,034	100,970	338,194	108,566	138,396	246,309
14	TOTAL INCOME TAX EXPENSE		(94,512)	7,103	161,970	33,597	71,878	(28,281)
15	INTEREST ON CUSTOMER DEPOSITS	CUSTDEP	2,984	1,924	167	832	1,044	192
16	TOTAL EXPENSES		12,349,743	2,559,377	10,070,819	3,245,638	2,008,959	1,479,267

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

	INCOME TAXES-17	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	FEDERAL & STATE TAX CALCULAT				
1	OPERATING REVENUES		62,360,515	28,256,744	773,927
	OPERATING EXPENSES				
2	OPERATION & MAINTENANCE EXP		51,523,173	23,159,993	651,714
3	DEPRECIATION & AMORTIZATION		4,329,077	1,788,650	104,457
4	TAXES OTHER THAN INCOME		2,393,765	935,787	50,508
5	INTEREST ON CUSTOMER DEPOSITS		19,313	11,589	581
6	PLUS: OTHER	PLANT	0	0	0
7	OPERATING INC BEFORE FED TAX		4,095,189	2,360,725	(33,333)
	LESS:				
8	INTEREST EXPENSE		2,379,034	897,339	47,242
9	OTHER ADJ	PLANT	0	0	0
10	NET OPERATING INC BEFORE TXS		1,716,155	1,463,386	(80,575)
	PERMANENT ITEMS				
11	DRUG SUBDIDIES	LABOR	(7,244)	(2,911)	(165)
12	PENALTIES	REVCLAIM	2,000	826	47
13	STATE REGUL ASSET AMORT	REVCLAIM	106,680	44,083	2,525
14	UNALLOWABLE MEALS	REVCLAIM	955	395	23
15	TOTAL PERMANENT ITEMS		102,391	42,393	2,430
	TEMPORY DIFFERENCES				
16	ACCRUED REVENUE	REVCLAIM	(4,037,699)	(1,668,498)	(95,551)
17	BAD DEBT	EXP904	(43,341)	(29,754)	(716)
18	DEFERRED RATE CASE	REVCLAIM	197,852	81,758	4,682
19	INSURANCE CLAIM RESERVE	EXP9245	(51,826)	(20,811)	(1,176)
20	FASB 87-PENSIONS	LABOR	(747,608)	(300,471)	(17,005)
21	PREPAID PROPERTY TAXES	PLANT	(102,382)	(39,939)	(2,147)
22	REMEDIATION	PSPLT	148,644	70,487	848
23	PBOP SFAS 106	LABOR	144,141	57,932	3,279
24	TRANSACTION COSTS	PLANT	1,938,266	756,104	40,655
25	TRANSITION COSTS	PLANT	(370,879)	(144,677)	(7,779)
26	UTILITY PLANT DIFFERENCES	PLANT	(4,086,096)	(1,593,957)	(85,705)
27	TOTAL TEMPORARY DIFF		(7,010,928)	(2,831,826)	(160,617)
	INVESTMENT TAX CREDIT AMORT				
28	UNAMORTIZED ITC	PLANT	(12,840)	(5,009)	(269)
	FEDERAL AND STATE TAX DIFF				
29	TAX DEPRECIATION	PLANT	470,221	183,430	9,863
30	STATE TAXABLE BASE INCOME		(4,735,001)	(1,147,626)	(229,168)

	INCOME TAXES-17	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	FEDERAL & STATE TAX CALCULAT							
1	OPERATING REVENUES		12,657,294	2,665,805	10,653,889	3,404,402	2,258,412	1,690,040
	OPERATING EXPENSES							
2	OPERATION & MAINTENANCE EXP		11,110,963	2,265,361	9,001,558	2,916,728	1,565,928	850,927
3	DEPRECIATION & AMORTIZATION		855,274	184,019	568,930	185,914	231,713	410,120
4	TAXES OTHER THAN INCOME		475,034	100,970	338,194	108,566	138,396	246,309
5	INTEREST ON CUSTOMER DEPOSITS		2,984	1,924	167	832	1,044	192
6	PLUS: OTHER	PLANT	0	0	0	0	0	0
7	OPERATING INC BEFORE FED TAX		213,039	113,531	745,040	192,362	321,332	182,493
	LESS:							
8	INTEREST EXPENSE		470,196	99,551	347,735	111,350	144,195	261,425
9	OTHER ADJ	PLANT	0	0	0	0	0	0
10	NET OPERATING INC BEFORE TXS		(257,157)	13,980	397,305	81,012	177,137	(78,933)
	PERMANENT ITEMS							
11	DRUG SUBDIDIES	LABOR	(1,486)	(321)	(981)	(324)	(381)	(674)
12	PENALTIES	REVCLAIM	413	88	264	86	100	175
13	STATE REGUL ASSET AMORT	REVCLAIM	22,050	4,701	14,071	4,605	5,329	9,316
14	UNALLOWABLE MEALS	REVCLAIM	197	42	126	41	48	83
15	TOTAL PERMANENT ITEMS		21,175	4,510	13,479	4,408	5,096	8,900
	TEMPORY DIFFERENCES							
16	ACCRUED REVENUE	REVCLAIM	(834,553)	(177,925)	(532,574)	(174,304)	(201,689)	(352,605)
17	BAD DEBT	EXP904	(5,426)	(1,093)	(4,454)	(1,294)	(562)	(42)
18	DEFERRED RATE CASE	REVCLAIM	40,894	8,719	26,097	8,541	9,883	17,278
19	INSURANCE CLAIM RESERVE	EXP9245	(10,618)	(2,296)	(7,031)	(2,322)	(2,732)	(4,839)
20	FASB 87-PENSIONS	LABOR	(153,331)	(33,173)	(101,292)	(33,489)	(39,284)	(69,563)
21	PREPAID PROPERTY TAXES	PLANT	(20,266)	(4,301)	(14,510)	(4,648)	(5,960)	(10,611)
22	REMEDIATION	PSPLT	38,952	1,947	28,977	3,214	4,045	174
23	PBOP SFAS 106	LABOR	29,563	6,396	19,529	6,457	7,574	13,412
24	TRANSACTION COSTS	PLANT	383,663	81,434	274,694	87,990	112,837	200,890
25	TRANSITION COSTS	PLANT	(73,412)	(15,582)	(52,562)	(16,837)	(21,591)	(38,439)
26	UTILITY PLANT DIFFERENCES	PLANT	(808,808)	(171,672)	(579,087)	(185,494)	(237,873)	(423,500)
27	TOTAL TEMPORARY DIFF		(1,413,341)	(307,548)	(942,212)	(312,186)	(375,352)	(667,845)
	INVESTMENT TAX CREDIT AMORT							
28	UNAMORTIZED ITC	PLANT	(2,542)	(539)	(1,820)	(583)	(747)	(1,331)
	FEDERAL AND STATE TAX DIFF							
29	TAX DEPRECIATION	PLANT	93,076	19,756	66,640	21,346	27,374	48,736
30	STATE TAXABLE BASE INCOME		(1,558,789)	(269,842)	(466,607)	(206,003)	(166,493)	(690,473)

	INCOME TAXES CON'T-18	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	STATE TAXABLE BASE INCOME		(4,735,001)	(1,147,626)	(229,168)
2	STATE INCOME TAX @ 8.50%		(402,475)	(97,548)	(19,479)
3	STATE BUS ENTERPRISE TAX CREDIT	REVCLAIM	(966)	(399)	(23)
4	STATE BUSINESS ENTERPRISE TAX	REVCLAIM	1,932	798	46
5	TOTAL STATE TAX EXPENSE		(401,509)	(97,149)	(19,456)
6	FED TAX INC BEF FED & STA TAX DIFF		(4,333,492)	(1,050,477)	(209,712)
7	LESS: FEDERAL AND STATE TAX DIFF		470,221	183,430	9,863
8	FEDERAL TAXABLE INCOME BASE		(4,803,713)	(1,233,907)	(219,575)
9	FEDERAL INCOME TAX @ 34.00%		(1,633,262)	(419,528)	(74,655)
	TOT DEF FEDERAL & STATE INC TAX				
10	ACCELERATED DEPRECIATION	PLANT	1,592,120	621,075	33,394
11	PBOP	LABOR	(57,093)	(22,946)	(1,299)
12	PENSION	LABOR	296,127	119,016	6,736
13	BAD DEBTS EXPENSE	EXP904	17,169	11,786	284
14	ACCRUED REVENUE	REVCLAIM	1,599,333	660,892	37,848
15	PREPAID PROPERTY TAXES	PLANT	40,552	15,819	851
16	DEFERRED RATE CASE	REVCLAIM	(78,369)	(32,384)	(1,855)
17	REMEDIATION	PSPLT	(58,878)	(27,920)	(336)
18	TRANSITION COSTS	PLANT	146,905	57,307	3,081
19	TRANSACTION COSTS	PLANT	(767,747)	(299,493)	(16,103)
20	INSURANCE CLAIM RESERVE	EXP9245	20,528	8,243	466
21	TOTAL DEFERRED INCOME TAXES		2,750,647	1,111,395	63,067
22	TAX ADJ LOBBYING & PENALTIES	REVCLAIM	(792)	(327)	(19)
23	TOTAL INCOME TAX EXPENSE		715,084	594,391	(31,064)
24	NET INCOME AFTER TAX		3,380,105	1,766,334	(2,269)

EFFECTIVE STATE TAX RATE	8.50%
FEDERAL TAX RATE - CURRENT	34.00%
1 - INCREMENTAL TAX RATE	0.60390
INCREMENTAL TAX RATE	0.39610
EFFECTIVE INCREMENTAL FEDERAL RATE	0.31110
FACTOR FOR TAXABLE BASIS	1.65590
INTEREST EXPENSE PERCENTAGE	3.4200%
PURCH GAS WORKING CAPITAL %	0.0000%
OTHER O&M WORKING CAPITAL %	0.7454%

	INCOME TAXES CON'T-18	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
1	STATE TAXABLE BASE INCOME		(1,558,789)	(269,842)	(466,607)	(206,003)	(166,493)	(690,473)
2	STATE INCOME TAX @ 8.50%		(132,497)	(22,937)	(39,662)	(17,510)	(14,152)	(58,690)
3	STATE BUS ENTERPRISE TAX CREDIT	REVCLAIM	(200)	(43)	(127)	(42)	(48)	(84)
4	STATE BUSINESS ENTERPRISE TAX	REVCLAIM	399	85	255	83	97	169
5	TOTAL STATE TAX EXPENSE		(132,297)	(22,894)	(39,534)	(17,469)	(14,104)	(58,606)
6	FED TAX INC BEF FED & STA TAX DIFF		(1,426,492)	(246,948)	(427,073)	(188,534)	(152,389)	(631,867)
7	LESS: FEDERAL AND STATE TAX DIFF		93,076	19,756	66,640	21,346	27,374	48,736
8	FEDERAL TAXABLE INCOME BASE		(1,519,568)	(266,704)	(493,713)	(209,881)	(179,763)	(680,603)
9	FEDERAL INCOME TAX @ 34.00%		(516,653)	(90,679)	(167,862)	(71,359)	(61,120)	(231,405)
	TOT DEF FEDERAL & STATE INC TAX							
10	ACCELERATED DEPRECIATION	PLANT	315,146	66,891	225,638	72,276	92,686	165,014
11	PBOP	LABOR	(11,710)	(2,533)	(7,735)	(2,557)	(3,000)	(5,312)
12	PENSION	LABOR	60,734	13,140	40,122	13,265	15,560	27,554
13	BAD DEBTS EXPENSE	EXP904	2,149	433	1,764	513	223	17
14	ACCRUED REVENUE	REVCLAIM	330,566	70,476	210,953	69,042	79,889	139,667
15	PREPAID PROPERTY TAXES	PLANT	8,027	1,704	5,747	1,841	2,361	4,203
16	DEFERRED RATE CASE	REVCLAIM	(16,198)	(3,453)	(10,337)	(3,383)	(3,915)	(6,844)
17	REMEDIATION	PSPLT	(15,429)	(771)	(11,478)	(1,273)	(1,602)	(69)
18	TRANSITION COSTS	PLANT	29,079	6,172	20,820	6,669	8,552	15,226
19	TRANSACTION COSTS	PLANT	(151,969)	(32,256)	(108,806)	(34,853)	(44,695)	(79,572)
20	INSURANCE CLAIM RESERVE	EXP9245	4,206	909	2,785	920	1,082	1,917
21	TOTAL DEFERRED INCOME TAXES		554,602	120,711	369,471	122,459	147,141	261,799
22	TAX ADJ LOBBYING & PENALTIES	REVCLAIM	(164)	(35)	(104)	(34)	(40)	(69)
23	TOTAL INCOME TAX EXPENSE		(94,512)	7,103	161,970	33,597	71,878	(28,281)
24	NET INCOME AFTER TAX		307,551	106,428	583,070	158,764	249,453	210,774

EFFECTIVE STATE TAX RATE
FEDERAL TAX RATE - CURRENT
1 - INCREMENTAL TAX RATE
INCREMENTAL TAX RATE
EFFECTIVE INCREMENTAL FEDERAL RATE
FACTOR FOR TAXABLE BASIS
INTEREST EXPENSE PERCENTAGE
PURCH GAS WORKING CAPITAL %
OTHER O&M WORKING CAPITAL %

		ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	DEVELOPMENT OF LABOR ALLOC-19				
	DEVELOPMENT OF LABOR ALLOCATOR				
1	163 - STORES EXPENSE UNDISTRIBUTED	DISTRPLT	14,198	5,419	292
	LPG & LNG GAS PRODUCTION				
	OPERATION				
2	710-SUPERVISION	LABPO	(30)	(14)	(0)
3	717-PROPANE EXPENSES	EXP717	1,231	584	7
4	718-DISPATCHING PRODUCTION	EXP718	0	0	0
5	735-MISCELLANEOUS	EXP735	17,924	8,500	102
6	TOTAL OPERATION LABOR		19,125	9,069	109
	MAINTENANCE				
7	740-SUPERVISION	LABPM	(30)	(14)	(0)
8	741-MAINTENANCE OF PLANT	EXP741	1,849	877	11
9	742-MAINTENANCE OF EQUIP	EXP742	5,164	2,449	29
10	743-GAS SYSTEM PROD TRAINING	EXP743	0	0	0
11	TOTAL MAINTENANCE LABOR		6,983	3,311	40
12	TOT MANUFACTURED GAS LABOR		26,108	12,380	149
	GAS SUPPLY LABOR				
13	813-OTHER GAS SUPPLY EXP	EXP813	99,379	39,420	860
14	TOTAL GAS SUPPLY LABOR		99,379	39,420	860
15	TOTAL PRODUCTION LABOR		125,487	51,800	1,009

	DEVELOPMENT OF LABOR ALLOC-19	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DEVELOPMENT OF LABOR ALLOCATOR							
1	163 - STORES EXPENSE UNDISTRIBUTED	DISTRPLT	2,798	607	2,030	663	852	1,535
	LPG & LNG GAS PRODUCTION							
	OPERATION							
2	710-SUPERVISION	LABPO	(8)	(0)	(6)	(1)	(1)	(0)
3	717-PROPANE EXPENSES	EXP717	323	16	240	27	33	1
4	718-DISPATCHING PRODUCTION	EXP718	0	0	0	0	0	0
5	735-MISCELLANEOUS	EXP735	4,697	235	3,494	388	488	21
6	TOTAL OPERATION LABOR		5,012	251	3,728	413	520	22
	MAINTENANCE							
7	740-SUPERVISION	LABPM	(8)	(0)	(6)	(1)	(1)	(0)
8	741-MAINTENANCE OF PLANT	EXP741	484	24	360	40	50	2
9	742-MAINTENANCE OF EQUIP	EXP742	1,353	68	1,007	112	141	6
10	743-GAS SYSTEM PROD TRAINING	EXP743	0	0	0	0	0	0
11	TOTAL MAINTENANCE LABOR		1,830	91	1,361	151	190	8
12	TOT MANUFACTURED GAS LABOR		6,842	342	5,090	564	711	31
	GAS SUPPLY LABOR							
13	813-OTHER GAS SUPPLY EXP	EXP813	19,563	4,012	18,661	5,901	4,898	6,064
14	TOTAL GAS SUPPLY LABOR		19,563	4,012	18,661	5,901	4,898	6,064
15	TOTAL PRODUCTION LABOR		26,405	4,354	23,751	6,465	5,609	6,095

	DEVEL OF LABOR ALLOC CON'T-20	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	TRANSMISSION & DISTRIBUTION LABOR				
	OPERATION				
1	870-SUPER & ENGINEERING	LABDO	58,046	19,200	921
2	851-SYSTEM CONTROL & DISP	EXP851	0	0	0
3	857-MEAS & REG STATION EXP	PLT378	499	142	3
4	874-MAINS & SERVICE EXPENSE	EXP874	342,937	138,847	7,290
5	875-GAS SYSTEM T&D TRAINING	EXP875	150,214	42,690	869
6	878-METER & HOUSE REG EXP	EXP878	372,145	106,008	8,614
7	879-CUSTOMER INSTALL EXP	EXP879	281	149	12
8	880-OTHER EXPENSE	EXP880	356,884	116,866	2,581
9	882-METERING SYS GAS TRAINING	EXP882	4,074	1,160	94
10	TOTAL OPERATION LABOR		1,285,080	425,062	20,383
	MAINTENANCE				
11	885-SUPERVISION	LABDM	60,591	21,067	821
12	886-MAINT STRUCT & IMPROVE	EXP886	1,188	338	7
13	887-MAINTENANCE OF MAINS	EXP887	58,041	16,495	336
14	889-MT OF MEAS & REG STA EQ	EXP889	17,089	4,857	99
15	890-MT OF REG EQ (INDUST)	EXP890	(610)	(173)	(4)
16	891-MT OF REG EQ (CITY GATE)	EXP891	20,564	6,262	130
17	892-MAINTENANCE OF SERVICES	EXP892	18,727	12,222	993
18	893-MAINT METER & HOUSE REG	EXP893	0	0	0
19	894-MAINT OF OTHER EQUIP	EXP894	244	69	1
20	TOTAL MAINTENANCE LABOR		175,834	61,136	2,383
21	TOTAL DISTRIB & TRANS LABOR		1,460,914	486,198	22,766
	CUSTOMER ACCOUNTS LABOR				
22	901-SUPERVISION	LABCA	0	0	0
23	902-METER READING EXPENSE	EXP902	112,196	79,348	6,447
24	903-CUST RECORDS & COLLECT	EXP903	403,576	268,113	21,970
25	TOTAL CUSTOMER ACCTS LABOR		515,773	347,461	28,418

	DEVEL OF LABOR ALLOC CON'T-20	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	TRANSMISSION & DISTRIBUTION LABOR							
	OPERATION							
1	870-SUPER & ENGINEERING	LABDO	14,204	3,078	8,929	3,009	3,188	5,517
2	851-SYSTEM CONTROL & DISP	EXP851	0	0	0	0	0	0
3	857-MEAS & REG STATION EXP	PLT378	79	17	97	29	46	86
4	874-MAINS & SERVICE EXPENSE	EXP874	56,080	12,112	49,477	15,631	22,516	40,983
5	875-GAS SYSTEM T&D TRAINING	EXP875	23,839	5,100	29,081	8,832	13,832	25,971
6	878-METER & HOUSE REG EXP	EXP878	155,562	34,203	41,855	17,952	4,260	3,692
7	879-CUSTOMER INSTALL EXP	EXP879	72	16	19	8	3	3
8	880-OTHER EXPENSE	EXP880	62,920	13,240	67,773	20,966	26,692	45,846
9	882-METERING SYS GAS TRAINING	EXP882	1,703	374	458	197	47	40
10	TOTAL OPERATION LABOR		314,460	68,139	197,689	66,624	70,584	122,139
	MAINTENANCE							
11	885-SUPERVISION	LABDM	9,836	2,111	10,236	3,166	4,701	8,653
12	886-MAINT STRUCT & IMPROVE	EXP886	189	40	230	70	109	205
13	887-MAINTENANCE OF MAINS	EXP887	9,211	1,970	11,237	3,413	5,344	10,035
14	889-MT OF MEAS & REG STA EQ	EXP889	2,712	580	3,308	1,005	1,574	2,955
15	890-MT OF REG EQ (INDUST)	EXP890	(97)	(21)	(118)	(36)	(56)	(105)
16	891-MT OF REG EQ (CITY GATE)	EXP891	3,405	722	3,959	1,211	1,735	3,140
17	892-MAINTENANCE OF SERVICES	EXP892	3,248	714	805	345	214	185
18	893-MAINT METER & HOUSE REG	EXP893	0	0	0	0	0	0
19	894-MAINT OF OTHER EQUIP	EXP894	39	8	47	14	22	42
20	TOTAL MAINTENANCE LABOR		28,542	6,125	29,705	9,189	13,643	25,109
21	TOTAL DISTRIB & TRANS LABOR		343,002	74,265	227,394	75,813	84,227	147,248
	CUSTOMER ACCOUNTS LABOR							
22	901-SUPERVISION	LABCA	0	0	0	0	0	0
23	902-METER READING EXPENSE	EXP902	17,327	3,907	2,411	949	754	1,054
24	903-CUST RECORDS & COLLECT	EXP903	71,860	15,943	16,037	6,898	1,174	1,581
25	TOTAL CUSTOMER ACCTS LABOR		89,186	19,850	18,449	7,847	1,928	2,635

	DEVEL OF LABOR ALLOC CON'T-21	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	CUSTOMER SERVICES & INFO EXP				
1	907-CUST SERV & INFO SUPRV	LABSE	0	0	0
2	908-CUST ASSISTANCE EXP	EXP908	125,636	62,257	4,080
3	TOT CUST SERV & INFO EXP		125,636	62,257	4,080
	ADMINISTRATIVE & GENERAL LABOR				
	OPERATION LABOR				
4	920-ADMIN & GENERAL SALARY	EXP920	8,340	3,352	190
5	921-OFFICE SUPPLIES & EXP	EXP921	20,260	8,142	461
6	923-OUTSIDE SERV EMPLOYED	EXP923	1,196,197	480,763	27,209
7	925-INJURIES & DAMAGES	EXP925	0	0	0
8	926-EMPLOYED PENSION & BENF	EXP926	115	46	3
9	930-MISCELLANEOUS GEN EXP	EXP930	0	0	0
10	TOTAL OPERATION EXPENSE		1,224,912	492,304	27,862
	MAINTENANCE				
11	935-MAINT OF GENERAL PLT	EXP935	0	0	0
12	TOTAL ADMIN & GEN LABOR		1,224,912	492,304	27,862
13	TOTAL GAS O & M LABOR		3,466,919	1,445,439	84,427
14	CONSTRUCTION LABOR	DISTRPLT	2,571,421	981,427	52,921
15	OTHER LABOR	LABOR	0	0	0
16	SUM OF ALLOCATED LABOR EXP		6,038,340	2,426,866	137,347

	DEVEL OF LABOR ALLOC CON'T-21	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	CUSTOMER SERVICES & INFO EXP							
1	907-CUST SERV & INFO SUPRV	LABSE	0	0	0	0	0	0
2	908-CUST ASSISTANCE EXP	EXP908	19,014	4,542	12,813	4,674	5,944	12,312
3	TOT CUST SERV & INFO EXP		19,014	4,542	12,813	4,674	5,944	12,312
	ADMINISTRATIVE & GENERAL LABOR							
	OPERATION LABOR							
4	920-ADMIN & GENERAL SALARY	EXP920	1,711	370	1,130	374	438	776
5	921-OFFICE SUPPLIES & EXP	EXP921	4,155	899	2,745	908	1,065	1,885
6	923-OUTSIDE SERV EMPLOYED	EXP923	245,335	53,078	162,070	53,584	62,855	111,303
7	925-INJURIES & DAMAGES	EXP925	0	0	0	0	0	0
8	926-EMPLOYED PENSION & BENF	EXP926	24	5	16	5	6	11
9	930-MISCELLANEOUS GEN EXP	EXP930	0	0	0	0	0	0
10	TOTAL OPERATION EXPENSE		251,224	54,352	165,960	54,870	64,364	113,975
	MAINTENANCE							
11	935-MAINT OF GENERAL PLT	EXP935	0	0	0	0	0	0
12	TOTAL ADMIN & GEN LABOR		251,224	54,352	165,960	54,870	64,364	113,975
13	TOTAL GAS O & M LABOR		731,630	157,970	450,397	150,333	162,924	283,800
14	CONSTRUCTION LABOR	DISTRPLT	506,808	109,967	367,723	120,156	154,366	278,053
15	OTHER LABOR	LABOR	0	0	0	0	0	0
16	SUM OF ALLOCATED LABOR EXP		1,238,438	267,937	818,120	270,488	317,289	561,854

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

	REVENUE REQUIREMENTS-22	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	PRESENT RATES				
1	RATE BASE		69,562,392	26,237,984	1,381,343
2	NET OPER INC (PRESENT RATES)		3,380,105	1,766,334	(2,269)
3	RATE OF RETURN (PRES RATES)		4.86%	6.73%	-0.16%
4	RELATIVE RATE OF RETURN		1.000	1.385	-0.034
5	SALES REVENUE (PRE RATES)		60,243,868	27,566,460	750,866
6	ANNUAL BOOKED CCF SALES		58,401,190	15,819,246	361,408
7	SALE REV $/CCF (PRE RATES)		$1.0316	$1.7426	$2.0776
	CLAIMED RATE OF RETURN				
8	CLAIMED RATE OF RETURN		7.24%	7.24%	7.24%
9	RETURN REQ FOR CLAIMED ROR		5,036,317	1,899,630	100,009
10	SALES REVENUE REQ CLAIMED ROR		62,986,395	27,787,185	920,229
11	REVENUE DEFICIENCY SALES REV		2,742,527	220,725	169,363
12	PERCENT INCREASE REQUIRED		4.55%	0.80%	22.56%
13	ANNUAL BOOKED CCF SALES		58,401,190	15,819,246	361,408
14	SALES REV REQUIRED $/CCF		$1.0785	$1.7565	$2.5462
15	REVENUE DEFICIENCY $/CCF		$0.0470	$0.0140	$0.4686
	PROPOSED REVENUES				
16	PROPOSED SALES REVENUES		62,986,395	27,787,185	920,229
17	REVENUE DEFICIENCY SALES REV		2,742,527	220,725	169,363
18	PERCENT INCREASE PROPOSED		4.55%	0.80%	22.56%
19	PROPOSED RATE OF RETURN		7.24%	7.24%	7.24%
20	RETURN REQ FOR PROPOSED REV		5,036,317	1,899,630	100,009
21	ANNUAL BOOKED CCF SALES		58,401,190	15,819,246	361,408
22	SALES REV REQUIRED $/CCF		$1.0785	$1.7565	$2.5462
23	REVENUE DEFICIENCY $/CCF		$0.0470	$0.0140	$0.4686

	REVENUE REQUIREMENTS-22	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	PRESENT RATES							
1	RATE BASE		13,748,432	2,910,853	10,167,682	3,255,845	4,216,232	7,644,020
2	NET OPER INC (PRESENT RATES)		307,551	106,428	583,070	158,764	249,453	210,774
3	RATE OF RETURN (PRES RATES)		2.24%	3.66%	5.73%	4.88%	5.92%	2.76%
4	RELATIVE RATE OF RETURN		0.460	0.752	1.180	1.004	1.218	0.567
5	SALES REVENUE (PRE RATES)		12,298,911	2,587,193	10,284,411	3,287,842	2,090,458	1,377,726
6	ANNUAL BOOKED CCF SALES		8,510,647	2,211,315	10,785,254	3,859,559	5,463,332	11,390,428
7	SALE REV $/CCF (PRE RATES)		$1.4451	$1.1700	$0.9536	$0.8519	$0.3826	$0.1210
	CLAIMED RATE OF RETURN							
8	CLAIMED RATE OF RETURN		7.24%	7.24%	7.24%	7.24%	7.24%	7.24%
9	RETURN REQ FOR CLAIMED ROR		995,386	210,746	736,140	235,723	305,255	553,427
10	SALES REVENUE REQ CLAIMED ROR		13,437,900	2,759,933	10,537,881	3,415,279	2,182,860	1,945,127
11	REVENUE DEFICIENCY SALES REV		1,138,989	172,740	253,470	127,436	92,402	567,401
12	PERCENT INCREASE REQUIRED		9.26%	6.68%	2.46%	3.88%	4.42%	41.18%
13	ANNUAL BOOKED CCF SALES		8,510,647	2,211,315	10,785,254	3,859,559	5,463,332	11,390,428
14	SALES REV REQUIRED $/CCF		$1.5790	$1.2481	$0.9771	$0.8849	$0.3995	$0.1708
15	REVENUE DEFICIENCY $/CCF		$0.1338	$0.0781	$0.0235	$0.0330	$0.0169	$0.0498
	PROPOSED REVENUES							
16	PROPOSED SALES REVENUES		13,437,900	2,759,933	10,537,881	3,415,279	2,182,860	1,945,127
17	REVENUE DEFICIENCY SALES REV		1,138,989	172,740	253,470	127,436	92,402	567,401
18	PERCENT INCREASE PROPOSED		9.26%	6.68%	2.46%	3.88%	4.42%	41.18%
19	PROPOSED RATE OF RETURN		7.24%	7.24%	7.24%	7.24%	7.24%	7.24%
20	RETURN REQ FOR PROPOSED REV		995,386	210,746	736,140	235,723	305,255	553,427
21	ANNUAL BOOKED CCF SALES		8,510,647	2,211,315	10,785,254	3,859,559	5,463,332	11,390,428
22	SALES REV REQUIRED $/CCF		$1.5790	$1.2481	$0.9771	$0.8849	$0.3995	$0.1708
23	REVENUE DEFICIENCY $/CCF		$0.1338	$0.0781	$0.0235	$0.0330	$0.0169	$0.0498

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

	ALLOCATION FACTOR TABLE-23	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	DEMAND RELATED				
1	PRODUCTION ALLOCATORS				
2	DES DAY REMANNG DEMNDS - SALES		332,382	157,615	1,896
3	LPG PROD ALLOC-PROD		332,382	157,615	1,896
4	LNG PROD ALLOC-PROD		332,382	157,615	1,896
5	LPG & LNG PROD ALLOC-DISTR		332,382	157,615	1,896
6	LPG PRODUCTION DEMAND	DEMLPG			
7	LNG PRODUCTION DEMAND	DEMLNG			
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
	DISTRIBUTION ALLOCATORS				
1	DISTRIBUTION ALLOCATOR	DISTR	100.0000%	28.4197%	0.5782%
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Line	ALLOCATION FACTOR TABLE-23	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	DEMAND RELATED							
1	PRODUCTION ALLOCATORS							
2	DES DAY REMANNG DEMNDS - SALES		87,101	4,354	64,795	7,186	9,046	389
3	LPG PROD ALLOC-PROD		87,101	4,354	64,795	7,186	9,046	389
4	LNG PROD ALLOC-PROD		87,101	4,354	64,795	7,186	9,046	389
5	LPG & LNG PROD ALLOC-DISTR		87,101	4,354	64,795	7,186	9,046	389
6	LPG PRODUCTION DEMAND	DEMLPG						
7	LNG PRODUCTION DEMAND	DEMLNG						
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
	DISTRIBUTION ALLOCATORS							
1	DISTRIBUTION ALLOCATOR	DISTR	15.8702%	3.3949%	19.3598%	5.8797%	9.2079%	17.2896%
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

	ALLOCATION FACTOR TABLE CONT-24	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	COMMODITY RELATED				
1	ANNUAL FIRM CCF SALES SENDOUT		34,950,275	15,898,740	363,224
2	ANNUAL FIRM CCF THROUGHPUT		58,694,663	15,898,740	363,224
3	DIRECT GAS COST ALLOCATOR	EGAS	42,184,110	19,191,057	427,950
4	CGA BAD DEBT ALLOCATOR	E904GAS	160,113	73,434	1,509
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

ALLOCATION FACTOR TABLE CONT-24	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
COMMODITY RELATED							
ANNUAL FIRM CCF SALES SENDOUT		7,314,430	1,690,445	6,345,371	2,289,891	955,222	92,952
ANNUAL FIRM CCF THROUGHPUT		8,553,414	2,222,427	10,839,452	3,878,954	5,490,786	11,447,666
DIRECT GAS COST ALLOCATOR	EGAS	9,138,272	1,843,260	7,794,050	2,517,263	1,143,756	128,502
CGA BAD DEBT ALLOCATOR	E904GAS	35,362	6,642	29,405	9,126	4,307	327

ALLOCATION FACTOR TABLE CONT-25

CUSTOMER RELATED

		ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	ACCT 380-SERVICES	CUST380	31,874,280	20,802,677	1,690,343
2	ACCT 381-383 METERS,MET INST,REG	CUST3813	16,042,516	4,569,833	371,326
3	ACCT 386-OTHER PROP CUST PREM	CUST386	100.0000%	28.4197%	0.5782%
4	ACCT 397-COMM EQ METSCAN - TELM	CUST397M	696	0	0
5	ACCT 397-COMM EQUIP - ITRON	CUST397I	338,201	244,105	19,835
6	CUSTOMER DEPOSITS	CUSTDEP	116,138	69,691	3,491
7	CUSTOMERS TRANSPORTSTION	CUSTTRAN	7,838	0	0
8	ACCT 902-METER READ EXP	CUST902	345,161	244,105	19,835
9	ACCT 903-CUST RECORDS & COLL	CUST903	399,056	265,110	21,724
10	ACCT 488 RECONNECT FEE	CUST488R	327,596	243,142	19,837
11	ACCT 908-CUST ASSISTANCE EXP	CUST908	100.0000%	49.5537%	3.2474%
12	ACCT 909-INFO & INSTR ADVERT	CUST909	100.0000%	49.5537%	3.2474%
18	ANNUAL NO SALES CUSTOMERS		329,765	243,142	19,837
19	ANNUAL NO OF TRANS CUSTOMERS		7,838	0	0
20	ANNUAL NUMBER GAS BILLS		367,705	265,110	21,724
22	ANNUAL NO METER EXCL DAILY MET		338,201	244,105	19,835
23	ANNUAL NO METERS DAILY METERED		696	0	0
25	TOTAL SALES & TRANSP CUSTOMERS		337,603	243,142	19,837
27	NUMBER OF SERVICES		20,865	14,866	1,208

	ALLOCATION FACTOR TABLE CONT-25	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	CUSTOMER RELATED							
1	ACCT 380-SERVICES	CUST380	5,528,345	1,215,496	1,370,796	587,932	363,584	315,107
2	ACCT 381-383 METERS,MET INST,REG	CUST3813	6,705,995	1,474,421	1,804,291	773,857	183,639	159,154
3	ACCT 386-OTHER PROP CUST PREM	CUST386	15.8702%	3.3949%	19.3598%	5.8797%	9.2079%	17.2896%
4	ACCT 397-COMM EQ METSCAN - TELM	CUST397M	12	36	96	12	216	324
5	ACCT 397-COMM EQUIP - ITRON	CUST397I	53,184	11,660	6,458	2,799	159	1
6	CUSTOMER DEPOSITS	CUSTDEP	17,942	11,571	1,004	5,006	6,277	1,155
7	CUSTOMERS TRANSPORTSTION	CUSTTRAN	3,412	789	2,192	945	191	309
8	ACCT 902-METER READ EXP	CUST902	53,304	12,020	7,418	2,919	2,319	3,241
9	ACCT 903-CUST RECORDS & COLL	CUST903	71,055	15,764	15,858	6,821	1,161	1,564
10	ACCT 488 RECONNECT FEE	CUST488R	52,989	11,628	0	0	0	0
11	ACCT 908-CUST ASSISTANCE EXP	CUST908	15.1341%	3.6153%	10.1982%	3.7206%	4.7309%	9.7998%
12	ACCT 909-INFO & INSTR ADVERT	CUST909	15.1341%	3.6153%	10.1982%	3.7206%	4.7309%	9.7998%
13								
14								
15								
16								
17								
18	ANNUAL NO SALES CUSTOMERS		49,576	10,839	4,320	1,866	170	15
19	ANNUAL NO OF TRANS CUSTOMERS		3,412	789	2,192	945	191	309
20	ANNUAL NUMBER GAS BILLS		57,405	12,608	7,091	3,042	396	329
21								
22	ANNUAL NO METER EXCL DAILY MET		53,184	11,660	6,458	2,799	159	1
23	ANNUAL NO METERS DAILY METERED		12	36	96	12	216	324
24								
25	TOTAL SALES & TRANSP CUSTOMERS		52,989	11,628	6,512	2,811	361	324
26								
27	NUMBER OF SERVICES		3,240	712	546	234	31	27
28								
29								
30								
31								
32								
33								
34								
35								

	ALLOCATION FACTOR TABLE CONT-26	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	EXTERNALLY DEVELOPED UNCOLLECTIBLE ACCOUNTS				
1	RESID NON HTG RATE R-6 & R-11	C904RNH	4,096	0	4,096
2	RESID HEATING RATE R-5 & R-10	C904RH	159,331	159,331	0
3	LOW LF SMALL RATE G40 & T40	C904G40	7,083	0	0
4	LOW LF MEDIUM RATE G41 & T41	C904G41	5,436	0	0
5	LOW LF LARGE RATE G42 & T42	C904G42	92	0	0
6	HIGH LF SMALL RATE G50 & T50	C904G50	1,909	0	0
7	HIGH LF MEDIUM RATE G51 & T51	C904G51	1,001	0	0
8	HIGH LF LARGE RATE G52 & T52	C904G52	0	0	0
			178,947		
	INTERNALLY DEVELOPED LATE PAYMENT CHARGES				
9	RESID NON HTG RATE R-6 & R-11	C488RNH	920,229	0	920,229
10	RESID HEATING RATE R-5 & R-10	C488RH	27,787,185	27,787,185	0
11	LOW LF SMALL RATE G40 & T40	C488G40	13,437,900	0	0
12	LOW LF MEDIUM RATE G41 & T41	C488G41	10,537,881	0	0
13	LOW LF LARGE RATE G42 & T42	C488G42	2,182,860	0	0
14	HIGH LF SMALL RATE G50 & T50	C488G50	2,759,933	0	0
15	HIGH LF MEDIUM RATE G51 & T51	C488G51	3,415,279	0	0
16	HIGH LF LARGE RATE G52 & T52	C488G51	1,945,127	0	0
17			62,986,395		
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					

	ALLOCATION FACTOR TABLE CONT-26	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	EXTERNALLY DEVELOPED UNCOLLECTIBLE ACCOUNTS							
1	RESID NON HTG RATE R-6 & R-11	C904RNH	0	0	0	0	0	0
2	RESID HEATING RATE R-5 & R-10	C904RH	0	0	0	0	0	0
3	LOW LF SMALL RATE G40 & T40	C904G40	7,083	0	0	0	0	0
4	LOW LF MEDIUM RATE G41 & T41	C904G41	0	0	5,436	0	0	0
5	LOW LF LARGE RATE G42 & T42	C904G42	0	0	0	0	92	0
6	HIGH LF SMALL RATE G50 & T50	C904G50	0	1,909	0	0	0	0
7	HIGH LF MEDIUM RATE G51 & T51	C904G51	0	0	0	1,001	0	0
8	HIGH LF LARGE RATE G52 & T52	C904G52	0	0	0	0	0	0
	INTERNALLY DEVELOPED LATE PAYMENT CHARGES							
9	RESID NON HTG RATE R-6 & R-11	C488RNH	0	0	0	0	0	0
10	RESID HEATING RATE R-5 & R-10	C488RH	0	0	0	0	0	0
11	LOW LF SMALL RATE G40 & T40	C488G40	13,437,900	0	0	0	0	0
12	LOW LF MEDIUM RATE G41 & T41	C488G41	0	0	10,537,881	0	0	0
13	LOW LF LARGE RATE G42 & T42	C488G42	0	0	0	0	2,182,860	0
14	HIGH LF SMALL RATE G50 & T50	C488G50	0	2,759,933	0	0	0	0
15	HIGH LF MEDIUM RATE G51 & T51	C488G51	0	0	0	3,415,279	0	0
16	HIGH LF LARGE RATE G52 & T52	C488G51	0	0	0	0	0	1,945,127
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

	INTERNALLY DEVELOPED-27	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	TOTAL GAS PLANT IN SERVICE	PLANT	131,165,787	51,166,854	2,751,180
2	SUM OF ALLOCATED LABOR EXP	LABOR	6,038,340	2,426,866	137,347
3	ACCT 305-STRUCTURES & IMPROVE	PLT305	169,854	80,545	969
4	ACCT 311-LP GAS EQUIP	PLT311	862,270	408,888	4,918
5	ACCT 320-OTHER EQUIPMENT	PLT320	34,055	16,149	194
6	ACCT 380-SERVICES	PLT380	31,874,279	20,802,676	1,690,343
7	ACCT 381-METERS	PLT381	3,506,040	998,722	81,152
8	ACCT 382-METER INSTALLATION	PLT382	12,313,745	3,507,664	285,019
9	ACCT 386-OTHER PROP CUST PREM	PLT386	2,523,018	717,034	14,589
10	ACCT 383-HOUSE REGULATORS	PLT383	222,731	63,447	5,155
11	ACCT 396-POWER OPERATED EQUIP	PLT396	75,266	28,727	1,549
12	ACCT 391-OFFICE FURN & EQUIP	PLT391	602,092	241,987	13,695
13	ACCT 392-TRANSPORTATION EQUIP	PLT392	22,974	9,233	523
14	ACCT 393-STORES EQUIPMENT	PLT393	31,520	12,030	649
15	ACCT 394-TOOLS, SHOP & GAR EQ	PLT394	874,077	333,607	17,989
16	ACCT 397-COMMUNICATION EQUIP	PLT397	1,030,686	414,242	23,444
17	ACCT 376 MAINS & 380 SERVICES	PLT37680	97,317,326	39,401,392	2,068,758
18	TOTAL DISTRIBUTION PLANT	DISTRPLT	120,597,781	46,028,224	2,481,936
19	TOTAL GAS COSTS	GASCOSTS	42,184,110	19,191,057	427,950
20	ACCT 381 - 383 METER & HSE REGUL	PLT3813	16,042,516	4,569,833	371,326
21	ACCT 851-879 DIST OPER EXP	EXP8519	1,558,608	521,012	33,158
22	REV CLAIMED ROR LESS GAS COSTS	REVCLAIM	20,802,285	8,596,128	492,280
23	TOTAL GENERAL PLt EXCL 397M	GENPLT	2,869,562	1,133,449	63,146
24	TOTAL GAS O & M LABOR	OMLAB	3,466,919	1,445,439	84,427
25	TOTAL PROD & STORAGE PLANT	PSPLT	2,933,454	1,391,044	16,731
26	TOTAL ADMIN & GEN EXPENSE	TOTAG	4,259,794	1,719,140	95,522
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

	INTERNALLY DEVELOPED-27	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
1	TOTAL GAS PLANT IN SERVICE	PLANT	25,963,141	5,510,766	18,589,005	5,954,438	7,635,842	13,594,562
2	SUM OF ALLOCATED LABOR EXP	LABOR	1,238,438	267,937	818,120	270,488	317,289	561,854
3	ACCT 305-STRUCTURES & IMPROVE	PLT305	44,510	2,225	33,112	3,672	4,623	199
4	ACCT 311-LP GAS EQUIP	PLT311	225,959	11,294	168,093	18,641	23,466	1,009
5	ACCT 320-OTHER EQUIPMENT	PLT320	8,924	446	6,639	736	927	40
6	ACCT 380-SERVICES	PLT380	5,528,345	1,215,496	1,370,796	587,932	363,584	315,107
7	ACCT 381-METERS	PLT381	1,465,573	322,230	394,322	169,124	40,134	34,783
8	ACCT 382-METER INSTALLATION	PLT382	5,147,317	1,131,721	1,384,918	593,989	140,956	122,162
9	ACCT 386-OTHER PROP CUST PREM	PLT386	400,408	85,654	488,450	148,346	232,318	436,219
10	ACCT 383-HOUSE REGULATORS	PLT383	93,105	20,471	25,050	10,744	2,550	2,210
11	ACCT 396-POWER OPERATED EQUIP	PLT396	14,834	3,219	10,763	3,517	4,518	8,139
12	ACCT 391-OFFICE FURN & EQUIP	PLT391	123,487	26,716	81,576	26,971	31,637	56,023
13	ACCT 392-TRANSPORTATION EQUIP	PLT392	4,712	1,019	3,113	1,029	1,207	2,138
14	ACCT 393-STORES EQUIPMENT	PLT393	6,212	1,348	4,507	1,473	1,892	3,408
15	ACCT 394-TOOLS, SHOP & GAR EQ	PLT394	172,274	37,380	124,996	40,843	52,472	94,516
16	ACCT 397-COMMUNICATION EQUIP	PLT397	211,389	45,734	139,645	46,170	54,158	95,903
17	ACCT 376 MAINS & 380 SERVICES	PLT37680	15,914,278	3,437,214	14,040,417	4,435,790	6,389,536	11,629,942
18	TOTAL DISTRIBUTION PLANT	DISTRPLT	23,768,947	5,157,355	17,245,956	5,635,217	7,239,639	13,040,506
19	TOTAL GAS COSTS	GASCOSTS	9,138,272	1,843,260	7,794,050	2,517,263	1,143,756	128,502
20	ACCT 381 - 383 METER & HSE REGUL	PLT3813	6,705,995	1,474,421	1,804,291	773,857	183,639	159,154
21	ACCT 851-879 DIST OPER EXP	EXP8519	462,579	101,205	203,694	74,514	60,583	101,863
22	REV CLAIMED ROR LESS GAS COSTS	REVCLAIM	4,299,628	916,673	2,743,831	898,016	1,039,104	1,816,625
23	TOTAL GENERAL PLt EXCL 397M	GENPLT	580,685	125,753	396,163	130,438	158,126	281,802
24	TOTAL GAS O & M LABOR	OMLAB	731,630	157,970	450,397	150,333	162,924	283,800
25	TOTAL PROD & STORAGE PLANT	PSPLT	768,715	38,423	571,856	63,418	79,833	3,434
26	TOTAL ADMIN & GEN EXPENSE	TOTAG	878,080	186,641	581,967	189,174	221,416	387,854
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

	INTERNALLY DEVELOPED CONT-28	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	ACCT 717-PROPANE EXPENSES	EXP717	5,517	2,616	31
2	ACCT 718-DISPATCHING PROD	EXP718	0	0	0
3	ACCT 735-MISCELLANEOUS	EXP735	19,818	9,398	113
4	ACCT 741-MAINTENANCE OF PLANT	EXP741	2,407	1,141	14
5	ACCT 742-MAINTENANCE OF EQUIP	EXP742	8,277	3,925	47
6	ACCT 743-GAS SYS PROD TRAINING	EXP743	657	312	4
7	ACCT 813-OTHER GAS SUPPLY EXP	EXP813	190,649	75,623	1,650
8	ACCT 851-SYSTEM CONTROL & DISP	EXP851	0	0	0
9	ACCT 857-MEAS & REG STATION EXP	EXP857	0	0	0
10	ACCT 874-MAINS & SERVICE EXP	EXP874	562,176	227,611	11,951
11	ACCT 875-GAS SYSTEM T&D TRAINING	EXP875	152,142	43,238	880
12	ACCT 878-METER & HOUSE REG EXP	EXP878	804,803	229,254	18,628
13	ACCT 879-CUSTOMER INSTALL EXP	EXP879	39,486	20,909	1,699
14	ACCT 880-OTHER EXPENSE	EXP880	707,119	231,555	5,113
15	ACCT 882-METERING SYS GAS TRAINING	EXP882	4,413	1,257	102
16	ACCT 887-MAINTENANCE OF MAINS	EXP887	257,655	73,225	1,490
17	ACCT 889-MT OF M & R STA EQ	EXP889	20,567	5,845	119
18	ACCT 890-MT OF REG EQ (INDUST)	EXP890	(526)	(149)	(3)
19	ACCT 891-MT OF REG EQ (CITY GATE)	EXP891	28,896	8,799	182
20	ACCT 892-MAINTENANCE OF SERV	EXP892	71,698	46,793	3,802
21	ACCT 893-MAINT MET & HOUSE REG	EXP893	103,807	29,570	2,403
22	ACCT 902-METER READING EXP	EXP902	124,019	87,709	7,127
23	ACCT 903-CUST RECORDS & COLL	EXP903	1,112,845	739,311	60,582
24	ACCT 908-CUST ASSISTANCE EXP	EXP908	2,357	1,168	77
25	ACCT 904-UNCOLLECTIBLE ACCTS	EXP904	347,894	238,830	5,751
26	ACCT 904-UNCOLL ACCTS EXP BASE	EXP904B	178,947	159,331	4,096
27	ACCT 920-ADMIN & GEN SALARY	EXP920	29,106	11,698	662
28	ACCT 923-OUTSIDE SERV EMPLOYED	EXP923	2,118,743	851,543	48,193
29	ACCT 930-MISC GEN EXP	EXP930	72,126	28,988	1,641
30	ACCT 935-MAINT OF GENERAL PLT	EXP935	21,214	8,379	467
31	GAS PROD LABOR ACCTS 717-735	LABPO	19,155	9,083	109
32	GAS PROD LABOR ACCTS 741-743	LABPM	7,013	3,325	40
33	DIST LABOR OPER ACCT 851 - 882	LABDO	1,227,034	405,863	19,462
34	DIST LABOR MAINT ACCT 886 - 894	LABDM	115,243	40,069	1,562
35	CUST ACCTS LABOR ACCT 902 - 903	LABCA	515,773	347,461	28,418
36	CUST SERV & INFO LABOR ACCT 908	LABSE	125,636	62,257	4,080
37	ACCT 880-ENERGY MGT & CONTROL	E880USC	690,042	225,846	4,750
38					
39					
40					

	INTERNALLY DEVELOPED CONT-28	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
1	ACCT 717-PROPANE EXPENSES	EXP717	1,446	72	1,076	119	150	6
2	ACCT 718-DISPATCHING PROD	EXP718	0	0	0	0	0	0
3	ACCT 735-MISCELLANEOUS	EXP735	5,193	260	3,863	428	539	23
4	ACCT 741-MAINTENANCE OF PLANT	EXP741	631	32	469	52	66	3
5	ACCT 742-MAINTENANCE OF EQUIP	EXP742	2,169	108	1,614	179	225	10
6	ACCT 743-GAS SYS PROD TRAINING	EXP743	172	9	128	14	18	1
7	ACCT 813-OTHER GAS SUPPLY EXP	EXP813	37,531	7,696	35,800	11,320	9,397	11,633
8	ACCT 851-SYSTEM CONTROL & DISP	EXP851	0	0	0	0	0	0
9	ACCT 857-MEAS & REG STATION EXP	EXP857	0	0	0	0	0	0
10	ACCT 874-MAINS & SERVICE EXP	EXP874	91,933	19,856	81,108	25,624	36,911	67,183
11	ACCT 875-GAS SYSTEM T&D TRAINING	EXP875	24,145	5,165	29,454	8,946	14,009	26,305
12	ACCT 878-METER & HOUSE REG EXP	EXP878	336,419	73,967	90,516	38,822	9,213	7,984
13	ACCT 879-CUSTOMER INSTALL EXP	EXP879	10,082	2,217	2,616	1,122	451	391
14	ACCT 880-OTHER EXPENSE	EXP880	124,669	26,233	134,283	41,541	52,887	90,838
15	ACCT 882-METERING SYS GAS TRAINING	EXP882	1,845	406	496	213	51	44
16	ACCT 887-MAINTENANCE OF MAINS	EXP887	40,890	8,747	49,881	15,149	23,725	44,547
17	ACCT 889-MT OF M & R STA EQ	EXP889	3,264	698	3,982	1,209	1,894	3,556
18	ACCT 890-MT OF REG EQ (INDUST)	EXP890	(83)	(18)	(102)	(31)	(48)	(91)
19	ACCT 891-MT OF REG EQ (CITY GATE)	EXP891	4,785	1,014	5,564	1,702	2,437	4,412
20	ACCT 892-MAINTENANCE OF SERV	EXP892	12,435	2,734	3,083	1,322	818	709
21	ACCT 893-MAINT MET & HOUSE REG	EXP893	43,393	9,541	11,675	5,007	1,188	1,030
22	ACCT 902-METER READING EXP	EXP902	19,153	4,319	2,665	1,049	833	1,165
23	ACCT 903-CUST RECORDS & COLL	EXP903	198,150	43,961	44,223	19,021	3,238	4,361
24	ACCT 908-CUST ASSISTANCE EXP	EXP908	357	85	240	88	112	231
25	ACCT 904-UNCOLLECTIBLE ACCTS	EXP904	43,550	8,774	35,749	10,391	4,514	336
26	ACCT 904-UNCOLL ACCTS EXP BASE	EXP904B	7,083	1,909	5,436	1,001	92	0
27	ACCT 920-ADMIN & GEN SALARY	EXP920	5,969	1,291	3,943	1,304	1,529	2,708
28	ACCT 923-OUTSIDE SERV EMPLOYED	EXP923	434,545	94,014	287,064	94,909	111,331	197,144
29	ACCT 930-MISC GEN EXP	EXP930	14,793	3,200	9,772	3,231	3,790	6,711
30	ACCT 935-MAINT OF GENERAL PLT	EXP935	4,293	930	2,929	964	1,169	2,083
31	GAS PROD LABOR ACCTS 717-735	LABPO	5,020	251	3,734	414	521	22
32	GAS PROD LABOR ACCTS 741-743	LABPM	1,838	92	1,367	152	191	8
33	DIST LABOR OPER ACCT 851 - 882	LABDO	300,256	65,062	188,760	63,615	67,396	116,622
34	DIST LABOR MAINT ACCT 886 - 894	LABDM	18,707	4,015	19,469	6,022	8,942	16,457
35	CUST ACCTS LABOR ACCT 902 - 903	LABCA	89,186	19,850	18,449	7,847	1,928	2,635
36	CUST SERV & INFO LABOR ACCT 908	LABSE	19,014	4,542	12,813	4,674	5,944	12,312
37	ACCT 880-ENERGY MGT & CONTROL	E880USC	119,600	25,124	132,052	40,725	52,223	89,722
38								
39								
40								

	INTERNALLY DEVELOPED CONT-29	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	TOTAL GAS PROD OPER LABOR	TLABPO	19,125	9,069	109
2	TOTAL GAS PROD MAINT LABOR	TLABPM	6,983	3,311	40
3	TOTAL DISTR OPER LABOR	TLABDO	1,285,080	425,062	20,383
4	TOTAL DISTR MAINT LABOR	TLABDM	175,834	61,136	2,383
5	TOTAL CUST ACCTS LABOR	TLABCA	515,773	347,461	28,418
6	CUSTOMER SERVICE & INFO LABOR	TLABSE	125,636	62,257	4,080
7	ACCT 886-MAINT STRUCT & IMPROV	EXP886	5,588	1,588	32
8	ACCT 894-MAINT OF OTHER EQUIP	EXP894	225,249	64,015	1,302
9	ACCT 921-OFFICE SUPPLIES & EXP	EXP921	206,996	83,194	4,708
10	ACCT 926-EMPLOY PENSION & BENF	EXP926	1,370,238	550,712	31,167
11	ACCT 380-383-SERV,METRS & REGUL	PLT3803	47,916,795	25,372,509	2,061,669
12	ACCT 925-INJURIES & DAMAGES	EXP925	262,313	105,426	5,967
13	ACCT 924 & 925 PROP & LIABILITY INS	EXP9245	270,328	108,553	6,135
14	ACCT 303-MISC INTANGIBLE PLT	PLT303	2,325,358	934,584	52,892
15	ACCT 321-LNG EQUIPMENT	PLT321	27,657	13,115	158
16	ACCT 361-STRUCTURES & IMPROVE	PLT361	182,976	86,767	1,044
17	ACCT 362-GAS HOLDERS	PLT362	1,533,321	727,101	8,745
18	ACCT 363-PURIFICATION EQUIPMENT	PLT363	42,469	20,139	242
19	ACCT 375-STRUCTURES & IMPROVE	PLT375	2,820,320	801,527	16,308
20	ACCT 376-MAINS	PLT376	65,443,047	18,598,715	378,415
21	ACCT 378-MEAS & REG STATION EQ	PLT378	1,787,578	508,024	10,336
22	ACCT 397-COMM EQ METSCAN - TEL	PLT397M	112,656	0	0
23	ACCT 397-COMM EQUIP - ITRON	PLT397I	2,326,975	1,679,553	136,474
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

	INTERNALLY DEVELOPED CONT-29	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
1	TOTAL GAS PROD OPER LABOR	TLABPO	5,012	251	3,728	413	520	22
2	TOTAL GAS PROD MAINT LABOR	TLABPM	1,830	91	1,361	151	190	8
3	TOTAL DISTR OPER LABOR	TLABDO	314,460	68,139	197,689	66,624	70,584	122,139
4	TOTAL DISTR MAINT LABOR	TLABDM	28,542	6,125	29,705	9,189	13,643	25,109
5	TOTAL CUST ACCTS LABOR	TLABCA	89,186	19,850	18,449	7,847	1,928	2,635
6	CUSTOMER SERVICE & INFO LABOR	TLABSE	19,014	4,542	12,813	4,674	5,944	12,312
7	ACCT 886-MAINT STRUCT & IMPROV	EXP886	887	190	1,082	329	515	966
8	ACCT 894-MAINT OF OTHER EQUIP	EXP894	35,747	7,647	43,608	13,244	20,741	38,945
9	ACCT 921-OFFICE SUPPLIES & EXP	EXP921	42,454	9,185	28,045	9,272	10,877	19,260
10	ACCT 926-EMPLOY PENSION & BENF	EXP926	281,030	60,801	185,650	61,380	72,000	127,498
11	ACCT 380-383-SERV,METRS & REGUL	PLT3803	12,234,340	2,689,917	3,175,087	1,361,789	547,224	474,260
12	ACCT 925-INJURIES & DAMAGES	EXP925	53,799	11,639	35,540	11,750	13,783	24,408
13	ACCT 924 & 925 PROP & LIABILITY INS	EXP9245	55,386	11,976	36,676	12,114	14,250	25,238
14	ACCT 303-MISC INTANGIBLE PLT	PLT303	476,921	103,182	315,057	104,165	122,188	216,369
15	ACCT 321-LNG EQUIPMENT	PLT321	7,247	362	5,391	598	753	32
16	ACCT 361-STRUCTURES & IMPROVE	PLT361	47,949	2,397	35,670	3,956	4,980	214
17	ACCT 362-GAS HOLDERS	PLT362	401,808	20,084	298,910	33,149	41,729	1,795
18	ACCT 363-PURIFICATION EQUIPMENT	PLT363	11,129	556	8,279	918	1,156	50
19	ACCT 375-STRUCTURES & IMPROVE	PLT375	447,590	95,747	546,007	165,827	259,693	487,622
20	ACCT 376-MAINS	PLT376	10,385,933	2,221,718	12,669,621	3,847,858	6,025,951	11,314,836
21	ACCT 378-MEAS & REG STATION EQ	PLT378	283,692	60,686	346,071	105,104	164,599	309,065
22	ACCT 397-COMM EQ METSCAN - TEL	PLT397M	1,942	5,827	15,539	1,942	34,962	52,444
23	ACCT 397-COMM EQUIP - ITRON	PLT397I	365,930	80,226	44,434	19,258	1,094	7

	INTERNALLY DEVELOPED CONT-30	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	REVENUES FROM GAS SALES				
1	REVENUES FIRM SALES OF GAS		60,243,868	27,566,460	750,866
2	WEATHER ADJ NET REVENUES		511,509	250,789	3,304
3	CGA REVENUES		42,184,110	19,191,057	427,950
4	BASE REVENUE SALES		12,852,076	7,475,009	308,660
5	BASE REVENUE EXTERNAL SUPPLY		3,516,532	335	0
6	PRODUCTION REVENUES		814,608	375,172	7,406
7	CGA BAD DEBT CHARGES		160,113	73,434	1,509
8	LOW INCOME DISCOUNT		200,748	198,749	1,998
9	CGA BAD DEBT CHARGES FROM INCR		4,172	1,913	39
10					
11					
12					
	REVENUE REQUIREMENT INPUTS				
1	CLAIMED RATE OF RETURN		7.240%	7.240%	7.240%
2	ANNUAL BOOKED CCF SALES & TRANS		58,401,190	15,819,246	361,408
3	PROPOSED SALES REVENUES		62,986,395	27,787,185	920,229
4	TOTAL ANNUAL CUSTOMERS		337,603	243,142	19,837
5					

	INTERNALLY DEVELOPED CONT-30	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	REVENUES FROM GAS SALES							
1	REVENUES FIRM SALES OF GAS		12,298,911	2,587,193	10,284,411	3,287,842	2,090,458	1,377,726
2	WEATHER ADJ NET REVENUES		94,366	8,985	89,471	7,417	29,886	27,290
3	CGA REVENUES		9,138,272	1,843,260	7,794,050	2,517,263	1,143,756	128,502
4	BASE REVENUE SALES		2,524,741	577,351	1,336,052	435,898	181,837	12,526
5	BASE REVENUE EXTERNAL SUPPLY		321,437	119,650	883,959	274,785	708,827	1,207,539
6	PRODUCTION REVENUES		183,812	31,131	150,707	43,116	21,732	1,533
7	CGA BAD DEBT CHARGES		35,362	6,642	29,405	9,126	4,307	327
8	LOW INCOME DISCOUNT		0	0	0	0	0	0
9	CGA BAD DEBT CHARGES FROM INCR		921	173	766	238	112	9
10								
11								
12								
	REVENUE REQUIREMENT INPUTS							
1	CLAIMED RATE OF RETURN		7.240%	7.240%	7.240%	7.240%	7.240%	7.240%
2	ANNUAL BOOKED CCF SALES & TRANS		8,510,647	2,211,315	10,785,254	3,859,559	5,463,332	11,390,428
3	PROPOSED SALES REVENUES		13,437,900	2,759,933	10,537,881	3,415,279	2,182,860	1,945,127
4	TOTAL ANNUAL CUSTOMERS		52,989	11,628	6,512	2,811	361	324
5								

	RATIO TABLE-31	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	CAPACITY RELATED				
1	PRODUCTION ALLOCATORS				
2	DES DAY REMANNG DEMNDS - SALES		1.00000	0.47420	0.00570
3	LPG PROD ALLOC-PROD		1.00000	0.47420	0.00570
4	LNG PROD ALLOC-PROD		1.00000	0.47420	0.00570
5	LPG & LNG PROD ALLOC-DISTR		1.00000	0.47420	0.00570
6	LPG PRODUCTION DEMAND	DEMLPG	1.00000	0.47420	0.00570
7	LNG PRODUCTION DEMAND	DEMLNG	1.00000	0.47420	0.00570
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
	DISTRIBUTION ALLOCATORS				
1	DISTRIBUTION ALLOCATOR	DISTR	1.00000	0.28420	0.00578
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

	RATIO TABLE-31	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	CAPACITY RELATED							
1	PRODUCTION ALLOCATORS							
2	DES DAY REMANNG DEMNDS - SALES		0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
3	LPG PROD ALLOC-PROD		0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
4	LNG PROD ALLOC-PROD		0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
5	LPG & LNG PROD ALLOC-DISTR		0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
6	LPG PRODUCTION DEMAND	DEMLPG	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
7	LNG PRODUCTION DEMAND	DEMLNG	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
	DISTRIBUTION ALLOCATORS							
1	DISTRIBUTION ALLOCATOR	DISTR	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

RATIO TABLE CONT-32

COMMODITY RELATED

		ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	ANNUAL FIRM MCF SENDOUT		1.00000	0.45490	0.01039
2	ANNUAL FIRM CCF THROUGHPUT		1.00000	0.27087	0.00619
3	DIRECT GAS COST ALLOCATOR	EGAS	1.00000	0.45494	0.01014
4	CGA BAD DEBT ALLOCATOR	E904GAS	1.00000	0.45864	0.00942

RATIO TABLE CONT-32

COMMODITY RELATED

		ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
1	ANNUAL FIRM MCF SENDOUT		0.20928	0.04837	0.18155	0.06552	0.02733	0.00266
2	ANNUAL FIRM CCF THROUGHPUT		0.14573	0.03786	0.18468	0.06609	0.09355	0.19504
3	DIRECT GAS COST ALLOCATOR	EGAS	0.21663	0.04370	0.18476	0.05967	0.02711	0.00305
4	CGA BAD DEBT ALLOCATOR	E904GAS	0.22085	0.04148	0.18365	0.05700	0.02690	0.00204

	RATIO TABLE CONT-33 CUSTOMER RELATED	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	ACCT 380-SERVICES	CUST380	1.00000	0.65265	0.05303
2	ACCT 381-383 METERS,MET INST,REG	CUST3813	1.00000	0.28486	0.02315
3	ACCT 386-OTHER PROP CUST PREM	CUST386	1.00000	0.28420	0.00578
4	ACCT 397-COMM EQ METSCAN - TELM	CUST397M	1.00000	0.00000	0.00000
5	ACCT 397-COMM EQUIP - ITRON	CUST397I	1.00000	0.72177	0.05865
6	CUSTOMER DEPOSITS	CUSTDEP	1.00000	0.60007	0.03006
7	CUSTOMERS TRANSPORTSTION	CUSTTRAN	1.00000	0.00000	0.00000
8	ACCT 902-METER READ EXP	CUST902	1.00000	0.70722	0.05747
9	ACCT 903-CUST RECORDS & COLL	CUST903	1.00000	0.66434	0.05444
10	ACCT 488 RECONNECT FEE	CUST488R	1.00000	0.74220	0.06055
11	ACCT 908-CUST ASSISTANCE EXP	CUST908	1.00000	0.49554	0.03247
12	ACCT 909-INFO & INSTR ADVERT	CUST909	1.00000	0.49554	0.03247
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

RATIO TABLE CONT-33

CUSTOMER RELATED

		ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
1	ACCT 380-SERVICES	CUST380	0.17344	0.03813	0.04301	0.01845	0.01141	0.00989
2	ACCT 381-383 METERS,MET INST,REG	CUST3813	0.41801	0.09191	0.11247	0.04824	0.01145	0.00992
3	ACCT 386-OTHER PROP CUST PREM	CUST386	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
4	ACCT 397-COMM EQ METSCAN - TELM	CUST397M	0.01724	0.05172	0.13793	0.01724	0.31034	0.46552
5	ACCT 397-COMM EQUIP - ITRON	CUST397I	0.15726	0.03448	0.01910	0.00828	0.00047	0.00000
6	CUSTOMER DEPOSITS	CUSTDEP	0.15449	0.09963	0.00864	0.04311	0.05405	0.00995
7	CUSTOMERS TRANSPORTSTION	CUSTTRAN	0.43538	0.10067	0.27964	0.12053	0.02440	0.03938
8	ACCT 902-METER READ EXP	CUST902	0.15443	0.03482	0.02149	0.00846	0.00672	0.00939
9	ACCT 903-CUST RECORDS & COLL	CUST903	0.17806	0.03950	0.03974	0.01709	0.00291	0.00392
10	ACCT 488 RECONNECT FEE	CUST488R	0.16175	0.03549	0.00000	0.00000	0.00000	0.00000
11	ACCT 908-CUST ASSISTANCE EXP	CUST908	0.15134	0.03615	0.10198	0.03721	0.04731	0.09800
12	ACCT 909-INFO & INSTR ADVERT	CUST909	0.15134	0.03615	0.10198	0.03721	0.04731	0.09800

	RATIO TABLE CONT-34	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	EXTERNALLY DEVELOPED UNCOLLECTIBLE ACCOUNTS				
1	RESID NON HTG RATE R-6 & R-11	C904RNH	1.00000	0.00000	1.00000
2	RESID HEATING RATE R-5 & R-10	C904RH	1.00000	1.00000	0.00000
3	LOW LF SMALL RATE G40 & T40	C904G40	1.00000	0.00000	0.00000
4	LOW LF MEDIUM RATE G41 & T41	C904G41	1.00000	0.00000	0.00000
5	LOW LF LARGE RATE G42 & T42	C904G42	1.00000	0.00000	0.00000
6	HIGH LF SMALL RATE G50 & T50	C904G50	1.00000	0.00000	0.00000
7	HIGH LF MEDIUM RATE G51 & T51	C904G51	1.00000	0.00000	0.00000
8	HIGH LF LARGE RATE G52 & T52	C904G52	0.00000	0.00000	0.00000
	INTERNALLY DEVELOPED LATE PAYMENT CHARGES				
9	RESID NON HTG RATE R-6 & R-11	C488RNH	1.00000	0.00000	1.00000
10	RESID HEATING RATE R-5 & R-10	C488RH	1.00000	1.00000	0.00000
11	LOW LF SMALL RATE G40 & T40	C488G40	1.00000	0.00000	0.00000
12	LOW LF MEDIUM RATE G41 & T41	C488G41	1.00000	0.00000	0.00000
13	LOW LF LARGE RATE G42 & T42	C488G42	1.00000	0.00000	0.00000
14	HIGH LF SMALL RATE G50 & T50	C488G50	1.00000	0.00000	0.00000
15	HIGH LF MEDIUM RATE G51 & T51	C488G51	1.00000	0.00000	0.00000
16	HIGH LF LARGE RATE G52 & T52	C488G52	1.00000	0.00000	0.00000
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					

	RATIO TABLE CONT-34	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	EXTERNALLY DEVELOPED UNCOLLECTIBLE ACCOUNTS							
1	RESID NON HTG RATE R-6 & R-11	C904RNH	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	RESID HEATING RATE R-5 & R-10	C904RH	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
3	LOW LF SMALL RATE G40 & T40	C904G40	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
4	LOW LF MEDIUM RATE G41 & T41	C904G41	0.00000	0.00000	1.00000	0.00000	0.00000	0.00000
5	LOW LF LARGE RATE G42 & T42	C904G42	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
6	HIGH LF SMALL RATE G50 & T50	C904G50	0.00000	1.00000	0.00000	0.00000	0.00000	0.00000
7	HIGH LF MEDIUM RATE G51 & T51	C904G51	0.00000	0.00000	0.00000	1.00000	0.00000	0.00000
8	HIGH LF LARGE RATE G52 & T52	C904G52	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	INTERNALLY DEVELOPED LATE PAYMENT CHARGES							
9	RESID NON HTG RATE R-6 & R-11	C488RNH	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
10	RESID HEATING RATE R-5 & R-10	C488RH	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
11	LOW LF SMALL RATE G40 & T40	C488G40	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
12	LOW LF MEDIUM RATE G41 & T41	C488G41	0.00000	0.00000	1.00000	0.00000	0.00000	0.00000
13	LOW LF LARGE RATE G42 & T42	C488G42	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
14	HIGH LF SMALL RATE G50 & T50	C488G50	0.00000	1.00000	0.00000	0.00000	0.00000	0.00000
15	HIGH LF MEDIUM RATE G51 & T51	C488G51	0.00000	0.00000	0.00000	1.00000	0.00000	0.00000
16	HIGH LF LARGE RATE G52 & T52	C488G52	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								

	INTERNALLY DEVELOPED-35	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	TOTAL GAS PLANT IN SERVICE	PLANT	1.00000	0.39009	0.02097
2	SUM OF ALLOCATED LABOR EXP	LABOR	1.00000	0.40191	0.02275
3	ACCT 305-STRUCTURES & IMPROVE	PLT305	1.00000	0.47420	0.00570
4	ACCT 311-LP GAS EQUIP	PLT311	1.00000	0.47420	0.00570
5	ACCT 320-OTHER EQUIPMENT	PLT320	1.00000	0.47420	0.00570
6	ACCT 380-SERVICES	PLT380	1.00000	0.65265	0.05303
7	ACCT 381-METERS	PLT381	1.00000	0.28486	0.02315
8	ACCT 382-METER INSTALLATION	PLT382	1.00000	0.28486	0.02315
9	ACCT 386-OTHER PROP CUST PREM	PLT386	1.00000	0.28420	0.00578
10	ACCT 383-HOUSE REGULATORS	PLT383	1.00000	0.28486	0.02315
11	ACCT 396-POWER OPERATED EQUIP	PLT396	1.00000	0.38167	0.02058
12	ACCT 391-OFFICE FURN & EQUIP	PLT391	1.00000	0.40191	0.02275
13	ACCT 392-TRANSPORTATION EQUIP	PLT392	1.00000	0.40191	0.02275
14	ACCT 393-STORES EQUIPMENT	PLT393	1.00000	0.38167	0.02058
15	ACCT 394-TOOLS, SHOP & GAR EQ	PLT394	1.00000	0.38167	0.02058
16	ACCT 397-COMMUNICATION EQUIP	PLT397	1.00000	0.40191	0.02275
17	ACCT 376 MAINS & 380 SERVICES	PLT37680	1.00000	0.40488	0.02126
18	TOTAL DISTRIBUTION PLANT	DISTRPLT	1.00000	0.38167	0.02058
19	TOTAL GAS COSTS	GASCOSTS	1.00000	0.45494	0.01014
20	ACCT 381 - 383 METER & HSE REGUL	PLT3813	1.00000	0.28486	0.02315
21	ACCT 851-879 DIST OPER EXP	EXP8519	1.00000	0.33428	0.02127
22	REV CLAIMED ROR LESS GAS COSTS	REVCLAIM	1.00000	0.41323	0.02366
23	TOTAL GENERAL PLANT	GENPLT	1.00000	0.39499	0.02201
24	TOTAL GAS O & M LABOR	OMLAB	1.00000	0.41692	0.02435
25	TOTAL PROD & STORAGE PLANT	PSPLT	1.00000	0.47420	0.00570
26	TOTAL ADMIN & GEN EXPENSE	TOTAG	1.00000	0.40357	0.02242
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

	INTERNALLY DEVELOPED-35	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
1	TOTAL GAS PLANT IN SERVICE	PLANT	0.19794	0.04201	0.14172	0.04540	0.05822	0.10364
2	SUM OF ALLOCATED LABOR EXP	LABOR	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
3	ACCT 305-STRUCTURES & IMPROVE	PLT305	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
4	ACCT 311-LP GAS EQUIP	PLT311	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
5	ACCT 320-OTHER EQUIPMENT	PLT320	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
6	ACCT 380-SERVICES	PLT380	0.17344	0.03813	0.04301	0.01845	0.01141	0.00989
7	ACCT 381-METERS	PLT381	0.41801	0.09191	0.11247	0.04824	0.01145	0.00992
8	ACCT 382-METER INSTALLATION	PLT382	0.41801	0.09191	0.11247	0.04824	0.01145	0.00992
9	ACCT 386-OTHER PROP CUST PREM	PLT386	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
10	ACCT 383-HOUSE REGULATORS	PLT383	0.41801	0.09191	0.11247	0.04824	0.01145	0.00992
11	ACCT 396-POWER OPERATED EQUIP	PLT396	0.19709	0.04276	0.14300	0.04673	0.06003	0.10813
12	ACCT 391-OFFICE FURN & EQUIP	PLT391	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
13	ACCT 392-TRANSPORTATION EQUIP	PLT392	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
14	ACCT 393-STORES EQUIPMENT	PLT393	0.19709	0.04276	0.14300	0.04673	0.06003	0.10813
15	ACCT 394-TOOLS, SHOP & GAR EQ	PLT394	0.19709	0.04276	0.14300	0.04673	0.06003	0.10813
16	ACCT 397-COMMUNICATION EQUIP	PLT397	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
17	ACCT 376 MAINS & 380 SERVICES	PLT37680	0.16353	0.03532	0.14427	0.04558	0.06566	0.11951
18	TOTAL DISTRIBUTION PLANT	DISTRPLT	0.19709	0.04276	0.14300	0.04673	0.06003	0.10813
19	TOTAL GAS COSTS	GASCOSTS	0.21663	0.04370	0.18476	0.05967	0.02711	0.00305
20	ACCT 381 - 383 METER & HSE REGUL	PLT3813	0.41801	0.09191	0.11247	0.04824	0.01145	0.00992
21	ACCT 851-879 DIST OPER EXP	EXP8519	0.29679	0.06493	0.13069	0.04781	0.03887	0.06536
22	REV CLAIMED ROR LESS GAS COSTS	REVCLAIM	0.20669	0.04407	0.13190	0.04317	0.04995	0.08733
23	TOTAL GENERAL PLANT	GENPLT	0.20236	0.04382	0.13806	0.04546	0.05510	0.09820
24	TOTAL GAS O & M LABOR	OMLAB	0.21103	0.04556	0.12991	0.04336	0.04699	0.08186
25	TOTAL PROD & STORAGE PLANT	PSPLT	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
26	TOTAL ADMIN & GEN EXPENSE	TOTAG	0.20613	0.04381	0.13662	0.04441	0.05198	0.09105

	INTERNALLY DEVELOPED CONT-36	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	ACCT 717-PROPANE EXPENSES	EXP717	1.00000	0.47420	0.00570
2	ACCT 718-DISPATCHING PROD	EXP718	0.00000	0.00000	0.00000
3	ACCT 735-MISCELLANEOUS	EXP735	1.00000	0.47420	0.00570
4	ACCT 741-MAINTENANCE OF PLANT	EXP741	1.00000	0.47420	0.00570
5	ACCT 742-MAINTENANCE OF EQUIP	EXP742	1.00000	0.47420	0.00570
6	ACCT 743-GAS SYS PROD TRAINING	EXP743	1.00000	0.47420	0.00570
7	ACCT 813-OTHER GAS SUPPLY EXP	EXP813	1.00000	0.39666	0.00866
8	ACCT 851-SYSTEM CONTROL & DISP	EXP851	0.00000	0.00000	0.00000
9	ACCT 857-MEAS & REG STATION EXP	EXP857	0.00000	0.00000	0.00000
10	ACCT 874-MAINS & SERVICE EXP	EXP874	1.00000	0.40488	0.02126
11	ACCT 875-GAS SYSTEM T&D TRAINING	EXP875	1.00000	0.28420	0.00578
12	ACCT 878-METER & HOUSE REG EXP	EXP878	1.00000	0.28486	0.02315
13	ACCT 879-CUSTOMER INSTALL EXP	EXP879	1.00000	0.52951	0.04303
14	ACCT 880-OTHER EXPENSE	EXP880	1.00000	0.32746	0.00723
15	ACCT 882-METERING SYS GAS TRAINING	EXP882	1.00000	0.28486	0.02315
16	ACCT 887-MAINTENANCE OF MAINS	EXP887	1.00000	0.28420	0.00578
17	ACCT 889-MT OF M & R STA EQ	EXP889	1.00000	0.28420	0.00578
18	ACCT 890-MT OF REG EQ (INDUST)	EXP890	1.00000	0.28420	0.00578
19	ACCT 891-MT OF REG EQ (CITY GATE)	EXP891	1.00000	0.30450	0.00630
20	ACCT 892-MAINTENANCE OF SERV	EXP892	1.00000	0.65265	0.05303
21	ACCT 893-MAINT MET & HOUSE REG	EXP893	1.00000	0.28486	0.02315
22	ACCT 902-METER READING EXP	EXP902	1.00000	0.70722	0.05747
23	ACCT 903-CUST RECORDS & COLL	EXP903	1.00000	0.66434	0.05444
24	ACCT 908-CUST ASSISTANCE EXP	EXP908	1.00000	0.49554	0.03247
25	ACCT 904-UNCOLLECTIBLE ACCTS	EXP904	1.00000	0.68650	0.01653
26	ACCT 904-UNCOLL ACCTS EXP BASE	EXP904B	1.00000	0.89038	0.02289
27	ACCT 920-ADMIN & GEN SALARY	EXP920	1.00000	0.40191	0.02275
28	ACCT 923-OUTSIDE SERV EMPLOYED	EXP923	1.00000	0.40191	0.02275
29	ACCT 930-MISC GEN EXP	EXP930	1.00000	0.40191	0.02275
30	ACCT 935-MAINT OF GENERAL PLT	EXP935	1.00000	0.39499	0.02201
31	GAS PROD LABOR ACCTS 717-735	LABPO	1.00000	0.47420	0.00570
32	GAS PROD LABOR ACCTS 741-743	LABPM	1.00000	0.47420	0.00570
33	DIST LABOR OPER ACCT 851 - 882	LABDO	1.00000	0.33077	0.01586
34	DIST LABOR MAINT ACCT 886 - 894	LABDM	1.00000	0.34769	0.01355
35	CUST ACCTS LABOR ACCT 902 - 903	LABCA	1.00000	0.67367	0.05510
36	CUST SERV & INFO LABOR ACCT 908	LABSE	1.00000	0.49554	0.03247
37	ACCT 880-ENERGY MGT & CONTROL	E880USC	1.00000	0.32729	0.00688
38					
39					
40					

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

	INTERNALLY DEVELOPED CONT-36	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
1	ACCT 717-PROPANE EXPENSES	EXP717	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
2	ACCT 718-DISPATCHING PROD	EXP718	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
3	ACCT 735-MISCELLANEOUS	EXP735	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
4	ACCT 741-MAINTENANCE OF PLANT	EXP741	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
5	ACCT 742-MAINTENANCE OF EQUIP	EXP742	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
6	ACCT 743-GAS SYS PROD TRAINING	EXP743	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
7	ACCT 813-OTHER GAS SUPPLY EXP	EXP813	0.19686	0.04037	0.18778	0.05937	0.04929	0.06102
8	ACCT 851-SYSTEM CONTROL & DISP	EXP851	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
9	ACCT 857-MEAS & REG STATION EXP	EXP857	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
10	ACCT 874-MAINS & SERVICE EXP	EXP874	0.16353	0.03532	0.14427	0.04558	0.06566	0.11951
11	ACCT 875-GAS SYSTEM T&D TRAINING	EXP875	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
12	ACCT 878-METER & HOUSE REG EXP	EXP878	0.41801	0.09191	0.11247	0.04824	0.01145	0.00992
13	ACCT 879-CUSTOMER INSTALL EXP	EXP879	0.25532	0.05614	0.06626	0.02842	0.01142	0.00990
14	ACCT 880-OTHER EXPENSE	EXP880	0.17630	0.03710	0.18990	0.05875	0.07479	0.12846
15	ACCT 882-METERING SYS GAS TRAINING	EXP882	0.41801	0.09191	0.11247	0.04824	0.01145	0.00992
16	ACCT 887-MAINTENANCE OF MAINS	EXP887	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
17	ACCT 889-MT OF M & R STA EQ	EXP889	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
18	ACCT 890-MT OF REG EQ (INDUST)	EXP890	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
19	ACCT 891-MT OF REG EQ (CITY GATE)	EXP891	0.16559	0.03511	0.19255	0.05890	0.08435	0.15269
20	ACCT 892-MAINTENANCE OF SERV	EXP892	0.17344	0.03813	0.04301	0.01845	0.01141	0.00989
21	ACCT 893-MAINT MET & HOUSE REG	EXP893	0.41801	0.09191	0.11247	0.04824	0.01145	0.00992
22	ACCT 902-METER READING EXP	EXP902	0.15443	0.03482	0.02149	0.00846	0.00672	0.00939
23	ACCT 903-CUST RECORDS & COLL	EXP903	0.17806	0.03950	0.03974	0.01709	0.00291	0.00392
24	ACCT 908-CUST ASSISTANCE EXP	EXP908	0.15134	0.03615	0.10198	0.03721	0.04731	0.09800
25	ACCT 904-UNCOLLECTIBLE ACCTS	EXP904	0.12518	0.02522	0.10276	0.02987	0.01297	0.00097
26	ACCT 904-UNCOLL ACCTS EXP BASE	EXP904B	0.03958	0.01067	0.03038	0.00559	0.00051	0.00000
27	ACCT 920-ADMIN & GEN SALARY	EXP920	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
28	ACCT 923-OUTSIDE SERV EMPLOYED	EXP923	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
29	ACCT 930-MISC GEN EXP	EXP930	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
30	ACCT 935-MAINT OF GENERAL PLT	EXP935	0.20236	0.04382	0.13806	0.04546	0.05510	0.09820
31	GAS PROD LABOR ACCTS 717-735	LABPO	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
32	GAS PROD LABOR ACCTS 741-743	LABPM	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
33	DIST LABOR OPER ACCT 851 - 882	LABDO	0.24470	0.05302	0.15383	0.05184	0.05493	0.09504
34	DIST LABOR MAINT ACCT 886 - 894	LABDM	0.16233	0.03484	0.16894	0.05226	0.07759	0.14280
35	CUST ACCTS LABOR ACCT 902 - 903	LABCA	0.17292	0.03849	0.03577	0.01521	0.00374	0.00511
36	CUST SERV & INFO LABOR ACCT 908	LABSE	0.15134	0.03615	0.10198	0.03721	0.04731	0.09800
37	ACCT 880-ENERGY MGT & CONTROL	E880USC	0.17332	0.03641	0.19137	0.05902	0.07568	0.13002
38								
39								
40								

23-Jan-12 02:32 PM

NORTHERN - NEW HAMPSHIRE
GAS COST OF SERVICE STUDY
12 MONTHS ENDED DECEMBER 31, 2010

	INTERNALLY DEVELOPED CONT-37	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
1	TOTAL GAS PROD OPER LABOR	TLABPO	1.00000	0.47420	0.00570
2	TOTAL GAS PROD MAINT LABOR	TLABPM	1.00000	0.47420	0.00570
3	TOTAL DISTR OPER LABOR	TLABDO	1.00000	0.33077	0.01586
4	TOTAL DISTR MAINT LABOR	TLABDM	1.00000	0.34769	0.01355
5	TOTAL CUST ACCTS LABOR	TLABCA	1.00000	0.67367	0.05510
6	CUSTOMER SERVICE & INFO LABOR	TLABSE	1.00000	0.49554	0.03247
7	ACCT 886-MAINT STRUCT & IMPROV	EXP886	1.00000	0.28420	0.00578
8	ACCT 894-MAINT OF OTHER EQUIP	EXP894	1.00000	0.28420	0.00578
9	ACCT 921-OFFICE SUPPLIES & EXP	EXP921	1.00000	0.40191	0.02275
10	ACCT 926-EMPLOY PENSION & BENF	EXP926	1.00000	0.40191	0.02275
11	ACCT 380-383-SERV,METRS & REGUL	PLT3803	1.00000	0.52951	0.04303
12	ACCT 925-INJURIES & DAMAGES	EXP925	1.00000	0.40191	0.02275
13	ACCT 924 & 925 PROP & LIABILITY INS	EXP9245	1.00000	0.40156	0.02269
14	ACCT 303-MISC INTANGIBLE PLT	PLT303	1.00000	0.40191	0.02275
15	ACCT 321-LNG EQUIPMENT	PLT321	1.00000	0.47420	0.00570
16	ACCT 361-STRUCTURES & IMPROVE	PLT361	1.00000	0.47420	0.00570
17	ACCT 362-GAS HOLDERS	PLT362	1.00000	0.47420	0.00570
18	ACCT 363-PURIFICATION EQUIPMENT	PLT363	1.00000	0.47420	0.00570
19	ACCT 375-STRUCTURES & IMPROVE	PLT375	1.00000	0.28420	0.00578
20	ACCT 376-MAINS	PLT376	1.00000	0.28420	0.00578
21	ACCT 378-MEAS & REG STATION EQ	PLT378	1.00000	0.28420	0.00578
22	ACCT 397-COMM EQ METSCAN - TEL	PLT397M	1.00000	0.00000	0.00000
23	ACCT 397-COMM EQUIP - ITRON	PLT397I	1.00000	0.72177	0.05865
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

	INTERNALLY DEVELOPED CONT-37	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
1	TOTAL GAS PROD OPER LABOR	TLABPO	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
2	TOTAL GAS PROD MAINT LABOR	TLABPM	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
3	TOTAL DISTR OPER LABOR	TLABDO	0.24470	0.05302	0.15383	0.05184	0.05493	0.09504
4	TOTAL DISTR MAINT LABOR	TLABDM	0.16233	0.03484	0.16894	0.05226	0.07759	0.14280
5	TOTAL CUST ACCTS LABOR	TLABCA	0.17292	0.03849	0.03577	0.01521	0.00374	0.00511
6	CUSTOMER SERVICE & INFO LABOR	TLABSE	0.15134	0.03615	0.10198	0.03721	0.04731	0.09800
7	ACCT 886-MAINT STRUCT & IMPROV	EXP886	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
8	ACCT 894-MAINT OF OTHER EQUIP	EXP894	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
9	ACCT 921-OFFICE SUPPLIES & EXP	EXP921	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
10	ACCT 926-EMPLOY PENSION & BENF	EXP926	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
11	ACCT 380-383-SERV,METRS & REGUL	PLT3803	0.25532	0.05614	0.06626	0.02842	0.01142	0.00990
12	ACCT 925-INJURIES & DAMAGES	EXP925	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
13	ACCT 924 & 925 PROP & LIABILITY INS	EXP9245	0.20488	0.04430	0.13567	0.04481	0.05271	0.09336
14	ACCT 303-MISC INTANGIBLE PLT	PLT303	0.20510	0.04437	0.13549	0.04480	0.05255	0.09305
15	ACCT 321-LNG EQUIPMENT	PLT321	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
16	ACCT 361-STRUCTURES & IMPROVE	PLT361	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
17	ACCT 362-GAS HOLDERS	PLT362	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
18	ACCT 363-PURIFICATION EQUIPMENT	PLT363	0.26205	0.01310	0.19494	0.02162	0.02721	0.00117
19	ACCT 375-STRUCTURES & IMPROVE	PLT375	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
20	ACCT 376-MAINS	PLT376	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
21	ACCT 378-MEAS & REG STATION EQ	PLT378	0.15870	0.03395	0.19360	0.05880	0.09208	0.17290
22	ACCT 397-COMM EQ METSCAN - TEL	PLT397M	0.01724	0.05172	0.13793	0.01724	0.31034	0.46552
23	ACCT 397-COMM EQUIP - ITRON	PLT397I	0.15726	0.03448	0.01910	0.00828	0.00047	0.00000

	INTERNALLY DEVELOPED CONT-38	ALLOC	TOTAL COMPANY	RESIDENTIAL HEATING RATE R-5 & R-10	RESIDENTIAL NON-HEATING RATE R-6 & R-11
	REVENUES FROM GAS SALES				
1	REVENUES FIRM SALES OF GAS		1.00000	0.45758	0.01246
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

	INTERNALLY DEVELOPED CONT-38	ALLOC	HIGH WINTER SMALL G-40 & T-40	LOW WINTER SMALL G-50 & T-50	HIGH WINTER MEDIUM G-41 & T-41	LOW WINTER MEDIUM G-51 & T-51	HIGH WINTER LARGE G-42 & T-42	LOW WINTER LARGE G-52 & T-52
	REVENUES FROM GAS SALES							
1	REVENUES FIRM SALES OF GAS		0.20415	0.04295	0.17071	0.05458	0.03470	0.02287
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								