

**Concord Steam Corporation
Cost Of Energy (COE)**

EX-3

ORIGINAL
N.H.P.U.C. Case No. <u>D6 12-270</u>
Exhibit No. <u>#3</u>
Witness <u>Peter Bloomfield</u>
DO NOT REMOVE FROM FILE

**DG 12 -270
Schedule 1
rev 10/2/12**

	Projected Steam Sales Mlbs	Projected Fuel Use MMBtu	\$/Mlb	Steam Revenue Energy	Cost of Energy	Projected Over/Under Collection
Nov-12	14,729	49,555	\$ 21.08	\$ 310,438	\$ 266,514	\$ 43,924
Dec-12	20,909	58,336	21.08	\$ 440,682	\$ 317,255	\$ 123,428
Jan-13	25,078	70,041	21.08	\$ 528,553	\$ 388,183	\$ 140,371
Feb-13	22,196	53,011	21.08	\$ 467,807	\$ 307,170	\$ 160,637
Mar-13	17,025	58,618	21.08	\$ 358,827	\$ 321,942	\$ 36,885
Apr-13	10,562	43,049	21.08	\$ 222,607	\$ 234,414	\$ (11,807)
May-13	5,264	33,565	21.08	\$ 110,934	\$ 212,425	\$ (101,491)
Jun-13	1,271	15,270	21.08	\$ 26,788	\$ 83,754	\$ (56,966)
Jul-13	972	17,320	21.08	\$ 20,486	\$ 83,820	\$ (63,334)
Aug-13	1,200	21,210	21.08	\$ 25,286	\$ 101,346	\$ (76,060)
Sep-13	1,329	16,618	21.08	\$ 28,014	\$ 86,474	\$ (58,460)
Oct-13	7,503	26,851	21.08	\$ 158,126	\$ 149,129	\$ 8,997
TOTAL	128,039	463,444		2,698,548	\$ 2,552,425	146,122

Under collection from 11-12 year -146,122

Energy Charge - \$ per Mlb \$ 21.08
Total of Cost of Energy Charge 2,698,548

Energy Charge excluding production costs- \$ per Mlb 18.84

Average COE charge for last year \$ 17.46

increase over last year including transferred production costs 20.7%
increase over last year excluding transferred production costs 7.9%

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Projected MMBtu's and Cost:

Projected MMBtu's						
	Nat. Gas	Waste	#6 Resid	Waste+ #6	Wood	Total
Nov-12	9,140	0	924	924	39,490	49,555
Dec-12	10,581	0	1,382	1,382	46,373	58,336
Jan-13	12,019	0	1,864	1,864	56,158	70,041
Feb-13	11,099	0	1,103	1,103	40,808	53,011
Mar-13	9,388	0	1,220	1,220	48,011	58,618
Apr-13	7,442	0	325	325	35,282	43,049
May-13	5,246	0	18	18	28,301	33,565
Jun-13	1,468	0	153	153	13,649	15,270
Jul-13	1,205	0	104	104	16,011	17,320
Aug-13	1,100	0	100	100	20,010	21,210
Sep-13	1,350	0	200	200	15,068	16,618
Oct-13	6,400	0	600	600	19,851	26,851
	76,438	0	7,994	7,994	379,012	463,444

bbls bbls bbls tons
- 1,269 1,289 44,590

Projected Costs						Other Production costs	Total
	Nat. Gas	Waste Oil	#6 Resid	Waste+ #6	Wood		
Nov-12	\$ 72,718	\$ -	\$ 14,674	\$ 14,674	\$ 161,122	18,000	\$ 266,514
Dec-12	\$ 84,118	\$ -	\$ 21,935	\$ 21,935	\$ 189,202	22,000	\$ 317,255
Jan-13	\$ 95,476	\$ -	\$ 29,580	\$ 29,580	\$ 229,127	34,000	\$ 388,183
Feb-13	\$ 88,157	\$ -	\$ 17,514	\$ 17,514	\$ 166,499	35,000	\$ 307,170
Mar-13	\$ 74,695	\$ -	\$ 19,363	\$ 19,363	\$ 195,884	32,000	\$ 321,942
Apr-13	\$ 59,306	\$ -	\$ 5,157	\$ 5,157	\$ 143,951	26,000	\$ 234,414
May-13	\$ 36,666	\$ -	\$ 292	\$ 292	\$ 115,467	60,000	\$ 212,425
Jun-13	\$ 10,634	\$ -	\$ 2,433	\$ 2,433	\$ 55,687	15,000	\$ 83,754
Jul-13	\$ 8,840	\$ -	\$ 1,654	\$ 1,654	\$ 65,326	8,000	\$ 83,820
Aug-13	\$ 8,117	\$ -	\$ 1,587	\$ 1,587	\$ 81,642	10,000	\$ 101,346
Sep-13	\$ 9,821	\$ -	\$ 3,175	\$ 3,175	\$ 61,478	12,000	\$ 86,474
Oct-13	\$ 44,613	\$ -	\$ 9,524	\$ 9,524	\$ 80,992	14,000	\$ 149,129
	\$ 593,160	\$ -	\$ 126,887	\$ 126,887	\$ 1,546,378	\$ 286,000	\$ 2,552,425

Projected mmbtu costs				Average oil		
	Gas	Waste	#6	#6 + waste	Wood	
\$/MMBtu	\$ 7.76	\$ 11.11	\$ 15.87	\$ 15.87	\$ 4.08	
	Decatherm	Bbl	Bbl		Ton	
Total \$/unit	7.76	\$ 75.00	\$ 100.00	\$ 100.00	\$ 34.68	
Gas Commodity	\$ 4.75					

Other production related costs to be included in COE. See Schedule 9

Ash Disposal	22,000
Water/Sewer	200,000
Treatment Chemicals	22,000
State Emission fee	42,000
Total	286,000

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		rev 10/27/12					
		Projected	07/08 Actual	08/09 Actual	09/10 Actual	10/11 Actual	
Projected	mmbtu's/mlb sold						Average
Mlbs							
November	14,729	3.36	2.72	3.51	3.53	2.87	3.16
December	20,909	2.79	2.73	2.44	2.86	2.63	2.66
January	25,078	2.79	2.34	2.51	2.89	2.88	2.66
February	22,196	2.39	2.54	2.13	2.37	2.37	2.35
March	17,025	3.44	3.16	3.24	3.65	3.28	3.33
April	10,562	4.08	3.68	4.05	4.15	4.22	4.03
May	5,264	6.38	5.86	5.94	7.73	5.46	6.25
June	1,271	12.01	16.03	11.77	10.75	11.14	12.42
July	972	17.82	19.83	21.78	16.87	14.63	18.28
August	1,200	17.68	19.92	21.63	20.64	13.25	18.86
September	1,329	12.50	10.87	12.86	17.74	12.76	13.56
October	7,503	3.58	3.87	3.33	3.60	3.82	3.66
	128,039						

Month-Year	Days/Month	\$ Nat. Gas	Meter Chg	LDC	Commodity	Basis	Total
Nov-12	30	\$ 72,718	524.96	2.40	3.43	2.07	7.90
Dec-12	31	\$ 84,118	542.46	2.40	3.43	2.07	7.90
Jan-13	31	\$ 95,476	542.46	2.40	3.43	2.07	7.90
Feb-13	28	\$ 88,157	489.96	2.40	3.43	2.07	7.90
Mar-13	31	\$ 74,695	542.46	2.40	3.43	2.07	7.90
Apr-13	30	\$ 59,306	524.96	2.40	3.43	2.07	7.90
May-13	31	\$ 36,666	542.46	1.38	3.43	2.07	6.89
Jun-13	30	\$ 10,634	524.96	1.38	3.43	2.07	6.89
Jul-13	31	\$ 8,840	542.46	1.38	3.43	2.07	6.89
Aug-13	31	\$ 8,117	542.46	1.38	3.43	2.07	6.89
Sep-13	30	\$ 9,821	524.96	1.38	3.43	2.07	6.89
Oct-13	31	\$ 44,613	542.46	1.38	3.43	2.07	6.89
		\$ 593,160		1.89	3.43	2.07	7.39

Liberty Utilities/EnergyNorth Tariff - Delivery Rate Components as of 07/03/2012		
G-43 Rate Class	Summer	Winter
Customer charge per Meter	\$17.4987	\$17.4987 per Day
G-43 Volumetric Rate (Therm rate x	\$0.8540	\$1.8666 Per Dth
Local Distribution Adjustment Chrg	\$0.5290	\$0.5290 Per Dth
Firm Transportation COG Charge	na	\$0.0000 Per Dth

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	Actual Sales Mlbs 2011/12	Steam sold non heating	Steam sold heating	Change in customers	Actual Deg Days 2011/12	Deg Days 30 yr ave	Adjusted Base rate Sales 2012/13	
Nov-11	11,885	1,200	10,685	(127)	615	786	14,729	Nov-12
Dec-11	18,141	1,200	16,941	(163)	1000	1173	20,909	Dec-12
Jan-12	23,465	1,200	22,265	(117)	1248	1345	25,078	Jan-13
Feb-12	21,020	1,200	19,820	(120)	1086	1157	22,196	Feb-13
Mar-12	12,341	1,200	11,141	(43)	674	960	17,025	Mar-13
Apr-12	9,503	1,200	8,303	(11)	520	587	10,562	Apr-13
May-12	3,357	1,200	2,157	-	155	292	5,264	May-13
Jun-12	1,271	1,271	-	-	83	83	1,271	Jun-13
Jul-12	972	972	-	-	0	15	972	Jul-13
Aug-11	1,200	1,200	-	-	7	35	1,200	Aug-13
Sep-11	1,329	1,329	-	-	100	177	1,329	Sep-13
Oct-11	7,770	1,200	6,570	(43)	528	510	7,503	Oct-13
TOTAL	112,254			(624)	6,016	7,120	128,039	