Concord Steam Corporation **DG 14 -**
Cost Of Energy (COE) **Schedule 1**

	Projected Steam Sales Mlbs	Projected Fuel Use MMBtu	$/Mlb		Steam Revenue Energy		Cost of Energy		Projected Over/Under Collection
Nov-14	14,413	44,320	$ 25.10	$	361,772	$	355,604	$	6,167
Dec-14	20,965	61,680	25.10	$	526,230	$	429,569	$	96,661
Jan-15	28,152	68,250	25.10	$	706,616	$	491,061	$	215,555
Feb-15	22,278	64,450	25.10	$	559,187	$	447,005	$	112,182
Mar-15	19,036	55,230	25.10	$	477,814	$	407,313	$	70,502
Apr-15	10,912	38,506	25.10	$	273,896	$	301,736	$	(27,840)
May-15	4,956	25,800	25.10	$	124,402	$	178,275	$	(53,872)
Jun-15	1,407	20,150	25.10	$	35,323	$	124,093	$	(88,770)
Jul-15	1,132	19,000	25.10	$	28,416	$	183,392	$	(154,976)
Aug-15	1,134	19,710	25.10	$	28,463	$	108,299	$	(79,835)
Sep-15	2,167	19,700	25.10	$	54,392	$	107,237	$	(52,846)
Oct-15	8,328	35,250	25.10	$	209,030	$	226,995	$	(17,966)
TOTAL	134,882	472,046			3,385,542	$	3,360,578		24,963

Under collection from last year		($24,963)
Energy Charge - $ per Mlb	$	25.10
Total of Cost of Energy Charge	$	3,385,542
Average COE charge for last year	$	21.18
Change vs last year		18.49%

Concord Steam Corporation
Cost Of Energy (COE)

Projected MMBtu's and Cost:

	Projected MMBtu's					
	Nat. Gas	**Waste**	**#6 Resid**	**Waste+ #6**	**Wood**	**Total**
Nov-14	12,820	0	-	-	31,500	44,320
Dec-14	12,180	0	-	-	49,500	61,680
Jan-15	15,090	0	-	-	53,160	68,250
Feb-15	12,550	0	-	-	51,900	64,450
Mar-15	12,820	0	-	-	42,410	55,230
Apr-15	10,225	0	-	-	28,281	38,506
May-15	5,200	0	-	-	20,600	25,800
Jun-15	2,900	0	-	-	17,250	20,150
Jul-15	2,000	0	-	-	17,000	19,000
Aug-15	1,700	0	-	-	18,010	19,710
Sep-15	1,500	0	-	-	18,200	19,700
Oct-15	6,400	0	-	-	28,850	35,250
	95,385	0	0	0	376,661	472,046
		bbls	bbls	bbls	tons	
		-	-	-	44,313	

	Projected Costs						
	Nat. Gas	**Waste Oil**	**#6 Resid**	**Waste+ #6**	**Wood**	**Other Production costs**	**Total**
Nov-14	$ 196,571	$ -	$ -	$ -	$ 129,034	30,000	$ 355,604
Dec-14	$ 186,801	$ -	$ -	$ -	$ 202,767	40,000	$ 429,569
Jan-15	$ 231,301	$ -	$ -	$ -	$ 217,760	42,000	$ 491,061
Feb-15	$ 192,407	$ -	$ -	$ -	$ 212,599	42,000	$ 447,005
Mar-15	$ 196,588	$ -	$ -	$ -	$ 173,725	37,000	$ 407,313
Apr-15	$ 156,888	$ -	$ -	$ -	$ 115,848	29,000	$ 301,736
May-15	$ 73,891	$ -	$ -	$ -	$ 84,384	20,000	$ 178,275
Jun-15	$ 41,432	$ -	$ -	$ -	$ 70,661	12,000	$ 124,093
Jul-15	$ 28,755	$ -	$ -	$ -	$ 69,637	85,000	$ 183,392
Aug-15	$ 24,523	$ -	$ -	$ -	$ 73,775	10,000	$ 108,299
Sep-15	$ 21,685	$ -	$ -	$ -	$ 74,553	11,000	$ 107,237
Oct-15	$ 90,817	$ -	$ -	$ -	$ 118,179	18,000	$ 226,995
	$ 1,441,656	$ -	$ -	$ -	$ 1,542,922	$ 376,000	$ 3,360,578

	Projected mmbtu costs			Average oil	
	Gas	Waste	#6	#6 + waste	Wood
$/MMBtu	$ 15.11	$ -	$ -	$ -	$ 4.10
	Decatherm	Bbl	Bbl		Ton
Total $/unit	15.11	$ -	$ -	$ -	$ 34.82
Gas Commodity	$ 4.03				

	Projected **Mlbs**	Projected	09/10 Actual	10/11 Actual	11/12 Actual	12/13 Actual	Average
		mmbtu's/mlb sold					
November	14,413	3.07	3.53	2.87	3.62	3.51	3.38
December	20,965	2.94	2.86	2.63	3.27	3.00	2.94
January	28,152	2.42	2.89	2.88	2.85	2.48	2.77
February	22,278	2.89	2.37	2.37	2.64	2.76	2.54
March	19,036	2.90	3.65	3.28	3.67	3.56	3.54
April	10,912	3.53	4.15	4.22	3.92	3.93	4.06
May	4,956	5.21	7.73	5.46	7.73	7.46	7.10
June	1,407	14.32	10.75	11.14	14.40	14.82	12.78
July	1,132	16.78	16.87	14.63	18.00	17.26	16.69
August	1,134	17.38	20.64	13.25	12.08	13.67	14.91
September	2,167	9.09	17.74	12.76	11.22	7.89	12.40
October	8,328	4.23	3.60	3.82	4.00	3.74	3.79
	134,882						

Month-Year	Days/Month	$ Nat. Gas	Meter Chg	LDC	Commodity	Basis	Total
Nov-14	30	$ 196,571	527.08	2.23	4.03	9.03	15.29
Dec-14	31	$ 186,801	544.65	2.23	4.03	9.03	15.29
Jan-15	31	$ 231,301	544.65	2.23	4.03	9.03	15.29
Feb-15	28	$ 192,407	491.94	2.23	4.03	9.03	15.29
Mar-15	31	$ 196,588	544.65	2.23	4.03	9.03	15.29
Apr-15	30	$ 156,888	527.08	2.23	4.03	9.03	15.29
May-15	31	$ 73,891	544.65	1.05	4.03	9.03	14.11
Jun-15	30	$ 41,432	527.08	1.05	4.03	9.03	14.11
Jul-15	31	$ 28,755	544.65	1.05	4.03	9.03	14.11
Aug-15	31	$ 24,523	544.65	1.05	4.03	9.03	14.11
Sep-15	30	$ 21,685	527.08	1.05	4.03	9.03	14.11
Oct-15	31	$ 90,817	544.65	1.05	4.03	9.03	14.11
		$ 1,441,656					

Liberty Utilities/EnergyNorth Tariff - Delivery Rate Components as of 07/03/2012			
G-43 Rate Class	**Summer**	**Winter**	
Customer charge per Meter	$17.5693	$17.5693	per Day
G-43 Delivery Charge	$0.8580	$1.8750	Per Dth
Local Distribution Adjustment Charge	$0.1870	$0.3570	Per Dth
Firm Transportation COG Charge	na	na	Per Dth

Concord Steam Corporation
Cost Of Energy (COE)

DG 14 -
Schedule-3

	Actual Sales Mlbs 2013/14	Steam sold non heating	Steam sold heating	Change in customers	Actual Deg Days 2013/14	Deg Days 30 yr ave	Adjusted Base rate Sales 2014/15	
Nov-13	17,208	1,200	16,008	-	968	799	14,413	Nov-14
Dec-13	24,089	1,200	22,889	-	1363	1177	20,965	Dec-14
Jan-14	27,991	1,200	26,791	-	1331	1339	28,152	Jan-15
Feb-14	25,863	1,200	24,663	-	1369	1170	22,278	Feb-15
Mar-14	21,284	1,200	20,084	-	1081	960	19,036	Mar-15
Apr-14	10,912	1,200	9,712	-	586	586	10,912	Apr-15
May-14	4,575	1,200	3,375	-	257	286	4,956	May-15
Jun-14	1,407	1,407	-	-	51	82	1,407	Jun-15
Jul-14	1,132	1,132	-	-	0	14	1,132	Jul-15
Aug-14	1,134	1,134	-	-	29	29	1,134	Aug-15
Sep-13	2,167	2,167	-	-	203	180	2,167	Sep-15
Oct-13	8,144	1,200	6,944	-	491	504	8,328	Oct-15
TOTAL	**145,907**			-	7,729	7,126	134,882	

Degree days compared to 30 yr ave 108.5%

Concord Steam Corporation
Cost Of Energy (COE)

DG 14 -
Schedule-4

Summary of 12-13 Energy expenses/Revenue

	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	(projected) Aug-14	(projected) Sep-14	(projected) Oct-14	**Total**
Actual Mlbs. Sold	17,208	24,089	27,991	25,863	21,284	10,912	4,575	1,407	1,132	1,134	1,821	9,607	147,024
Actual Rate Per Mlb.	$ 20.83	$ 20.83	$ 20.83	$ 20.83	$ 21.83	$ 21.83	$ 21.83	$ 21.83	$ 21.83	$ 21.83	$ 21.83	$ 21.83	
Revenue:	$ 358,523	$ 501,883	$ 583,184	$ 538,858	$ 464,641	$ 238,212	$ 99,880	$ 30,721	$ 24,714	$ 24,755	$ 39,752	$ 209,714	$ 3,114,838
Cost of Energy:	$ 312,386	$ 377,342	$ 602,387	$ 347,965	$ 338,721	$ 246,983	$ 178,397	$ 114,447	$ 90,761	$ 230,521	$ 97,378	$ 179,676	$ 3,116,964
Over/(Under) Collection:													
Beginning Balance	**$ (38,425)**	$ 7,712	$ 132,253	$ 113,049	$ 303,942	$ 429,861	$ 421,091	$ 342,575	$ 258,849	$ 192,803	$ (12,964)	$ (70,590)	
Current Month	$ 46,137	$ 124,540	$ (19,203)	$ 190,893	$ 125,919	$ (8,770)	$ (78,516)	$ (83,726)	$ (66,047)	$ (205,766)	$ (57,626)	$ 30,038	
Ending Balance	$ 7,712	$ 132,253	$ 113,049	$ 303,942	$ 429,861	$ 421,091	$ 342,575	$ 258,849	$ 192,803	$ (12,964)	$ (70,590)	$ (40,551)	

Purchased fuel costs:	$ 3,116,964	
Over/(Under) Collection 12/13:	**$ (38,425)**	See Sched 7 - COE reconciliation for previous year
Revenue requirement:	$ 3,155,389	
Adjusted Revenue stream:	$ 3,114,387	
Audit Correction 10/1/13	$ (2,388)	
Woodyard rental revenue	$ 13,200	
Projected 2011-12 Over/(under) Collection:	$ (24,963)	

	Projected Mlbs.	**Rate per Mlb.**	**Projected Revenue $**
Nov-13	13,521	$ 20.83	$ 281,635
Dec-13	21,496	$ 20.83	$ 447,759
Jan-14	28,460	$ 20.83	$ 592,815
Feb-14	24,012	$ 20.83	$ 500,162
Mar-14	16,387	$ 21.83	$ 357,737
Apr-14	10,987	$ 21.83	$ 239,838
May-14	3,524	$ 21.83	$ 76,931
Jun-14	1,360	$ 21.83	$ 29,681
Jul-14	963	$ 21.83	$ 21,022
Aug-14	1,168	$ 21.83	$ 25,497
Sep-14	1,821	$ 21.83	$ 39,752
Oct-14	9,607	$ 21.83	$ 209,714
Total	133,304	$ 21.17	$ 2,822,545

	Actual/Projected Mlbs.	**Rate per Mlb.**	**Revenue $**
Nov-13	17,208	$ 20.83	$ 358,441
Dec-13	24,089	$ 20.83	$ 501,769
Jan-14	27,991	$ 20.83	$ 583,051
Feb-14	25,863	$ 20.83	$ 538,735
Mar-14	21,284	$ 21.83	$ 464,641
Apr-14	10,912	$ 21.83	$ 238,212
May-14	4,575	$ 21.83	$ 99,880
Jun-14	1,407	$ 21.83	$ 30,721
Jul-14	1,132	$ 21.83	$ 24,714
Aug-14	1,134	$ 21.83	$ 24,755
Sep-14	1,821	$ 21.83	$ 39,752
Oct-14	9,607	$ 21.83	$ 209,714
Total	147,024	$ 21.18	$ 3,114,387

Concord Steam Company
Cost of Energy (COE)

DG 14 -
Schedule 5

Revenue Summary

	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14
Cost of Energy	$ 312,386	$ 377,342	$ 602,387	$ 347,965	$ 338,721	$ 246,983	$ 178,397	$ 114,447	$ 80,728	$ 147,344	$ -	$ -

Actual MMBtu's and Cost:

			Actual MMBtu's			
	Nat. Gas	**bbls**	**Waste + #6**	**Wood**	**Tons**	**Total**
Nov-13	15,574	-	-	34,961	4113	50,535
Dec-13	15,533	-	-	46,036	5416	61,569
Jan-14	22,110	-	-	55,420	6520	77,530
Feb-14	14,570	-	-	40,443	4758	55,013
Mar-14	11,649	-	-	48,000	5647	59,649
Apr-14	9,003	-	-	34,204	4024	43,207
May-14	8,193	-	-	26,673	3138	34,866
Jun-14	1,616	-	-	17,595	2070	19,211
Jul-14	2,591	-	-	13,677	1609	16,268
Aug-14	11,841	479	2,936	961	113	15,738
Sep-14		-				-
Oct-14		-				-
Total	112,681	479	2,936	317,968	37,408	433,586
			BTU factor	BTU factor		
			6.13	8.5		
					7.77	
					92,038	

	Actual Costs			
	Nat. Gas	**Waste + #6**	**Wood**	**Total**
Nov-13	$ 145,067	$ -	$ 137,788	$ 282,855
Dec-13	$ 164,645	$ -	$ 173,010	$ 337,655
Jan-14	$ 364,988	$ -	$ 196,959	$ 561,948
Feb-14	$ 153,208	$ -	$ 154,853	$ 308,060
Mar-14	$ 128,400	$ -	$ 175,675	$ 304,075
Apr-14	$ 87,639	$ -	$ 131,101	$ 218,740
May-14	$ 61,341	$ -	$ 98,683	$ 160,024
Jun-14	$ 18,402	$ -	$ 85,267	$ 103,669
Jul-14	$ 20,139	$ -	$ 60,588	$ 80,728
Aug-14	$ 93,425	$ 50,787	$ 3,132	$ 147,344
Sep-14				$ -
Oct-14				$ -
Total	$ 1,237,254	$ 50,787	$ 1,217,056	$ 2,505,097
$/mmbtu	$ 10.98	$ 17.30	$ 3.83	$ 5.78
$/ton				
$/bbl		$ 106.03		

	Projected/Actual Costs			Other Production costs	
	Nat. Gas	**Waste + #6**	**Wood**		**Total**
Nov-13	$ 145,067	$ -	$ 137,788	$ 29,531	$ 312,386
Dec-13	$ 164,645	$ -	$ 173,010	$ 39,688	$ 377,342
Jan-14	$ 364,988	$ -	$ 196,959	$ 40,439	$ 602,387
Feb-14	$ 153,208	$ -	$ 154,853	$ 39,904	$ 347,965
Mar-14	$ 128,400	$ -	$ 175,675	$ 34,646	$ 338,721
Apr-14	$ 87,639	$ -	$ 131,101	$ 28,243	$ 246,983
May-14	$ 61,341	$ -	$ 98,683	$ 18,373	$ 178,397
Jun-14	$ 18,402	$ -	$ 85,267	$ 10,778	$ 114,447
Jul-14	$ 20,139	$ -	$ 60,588	$ 10,033	$ 90,761
Aug-14	$ 93,425	$ 50,787	$ 3,132	$ 83,177	$ 230,521
Sep-14	$ 12,850	$ -	$ 73,529	$ 11,000	$ 97,378
Oct-14	$ 53,121	$ -	$ 116,555	$ 10,000	$ 179,676
Total	$ 1,303,224	$ 50,787	$ 1,407,140	$ 355,813	$ 3,116,964

Projected MMBtu's and Cost:

			Projected MMBtu's			
	Nat. Gas	**Waste**	**#6 Resid**	**Waste+ #6**	**Wood**	**Total**
Nov-13	12,820	0	0	-	31,500	44,320
Dec-13	12,180	0	0	-	49,500	61,680
Jan-14	15,090	0	0	-	53,160	68,250
Feb-14	12,550	0	0	-	51,900	64,450
Mar-14	12,820	0	0	-	42,410	55,230
Apr-14	10,225	0	0	-	28,281	38,506
May-14	5,200	0	0	-	20,600	25,800
Jun-14	2,900	0	0	-	17,250	20,150
Jul-14	2,000	0	0	-	17,000	19,000
Aug-14	1,700	0	0	-	18,010	19,710
Sep-14	1,500	0	0	-	18,200	19,700
Oct-14	6,400	0	0	-	28,850	35,250
Total	95,385	-	-	-	376,661	472,046
		-	-	-	44,313	
				bbls	tons	

			Projected Costs			Other Production costs	
	Nat. Gas	**Waste Oil**	**#6 Resid**	**Waste+ #6**	**Wood**		**Total**
Nov-13	$ 121,061	$ -	$ -	$ -	$ 127,261	18,000	$ 266,322
Dec-13	$ 115,061	$ -	$ -	$ -	$ 199,982	28,000	$ 343,043
Jan-14	$ 142,421	$ -	$ -	$ -	$ 214,769	35,000	$ 392,189
Feb-14	$ 118,487	$ -	$ -	$ -	$ 209,678	36,000	$ 364,165
Mar-14	$ 121,078	$ -	$ -	$ -	$ 171,338	37,000	$ 329,416
Apr-14	$ 96,663	$ -	$ -	$ -	$ 114,256	27,000	$ 237,919
May-14	$ 43,263	$ -	$ -	$ -	$ 83,225	22,000	$ 148,487
Jun-14	$ 24,351	$ -	$ -	$ -	$ 69,691	12,000	$ 106,041
Jul-14	$ 16,975	$ -	$ -	$ -	$ 68,681	68,000	$ 153,655
Aug-14	$ 14,510	$ -	$ -	$ -	$ 72,762	10,000	$ 97,272
Sep-14	$ 12,850	$ -	$ -	$ -	$ 73,529	11,000	$ 97,378
Oct-14	$ 53,121	$ -	$ -	$ -	$ 116,555	10,000	$ 179,676
Total	$ 879,839	$ -	$ -	$ -	$ 1,521,726	314,000	$ 2,715,565

Projected mmbtu costs

	Gas	Waste	#6	#6/waste	Wood
$/MMBtu	$ 9.22	#DIV/0!	#DIV/0!	#DIV/0!	$ 4.04
	Decatherm	Bbl	Bbl		Ton
$/Unit	$ 9.22	#DIV/0!	#DIV/0!	#DIV/0!	$ 34.34

Concord Steam Corporation
Cost Of Energy (COE)

DG 14 -
Schedule-6

Customer Size	Annual usage M/lbs	Energy Charge at new rate 25.10	Energy Charge at 13/14 average 21.18	Meter Charge	Usage Rate	Proposed with new COE	Last year	% change over last year
Small	295	$ 7,405	$ 6,249	$ 120	*$ 6,343*	$ 13,867	$ 12,711	9.09%
Medium	1201	$ 30,145	$ 25,441	$ 400	*$ 25,461*	$ 56,006	$ 51,302	9.17%
Large	4797	$ 120,405	$ 101,614	$ 944	*$ 97,379*	$ 218,728	$ 199,937	9.40%

The Small user will always use less than 500 Mlbs/month and their usage arte will always be highest tier.
The Medium user may in some months use more than 500 Mlbs, but most of their usage will also be at the highest tier.
The Large user almost always uses above 500 Mlbs/month but still never uses more than 2,000 Mlbs/month.
They end up with a blended rate due to buying steam from the two tiers

The estimate of usage rate for each user is based on a sample customers actual annual usage divided by the total useage which establishes the average useage rate that that customer paid.

Concord Steam Company
Cost of Energy (COE)

DG 14 -
Schedule -7

Reconcilliation of 2012-2013 cost of energy

	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
Revenue:	$ 314,857	$ 409,803	$ 579,850	$ 482,910	$ 342,784	$ 230,895	$ 70,765	$ 28,661	$ 20,291	$ 24,622	$ 45,684	$ 171,676
Cost of Energy:	$ 288,534	$ 305,238	$ 380,376	$ 318,309	$ 308,769	$ 220,602	$ 190,870	$ 114,076	$ 95,466	$ 76,811	$ 105,648	$ 174,210
Over/(Under) Collection:												
Beginning Balance	**$ (182,316)**	$ (155,993)	$ (51,427)	$ 148,046	$ 312,647	$ 346,662	$ 356,956	$ 236,851	$ 151,436	$ 76,261	$ 24,073	$ (35,891)
Current Month	$ 26,323	$ 104,565	$ 199,474	$ 164,601	$ 34,015	$ 10,294	$ (120,105)	$ (85,415)	$ (75,174)	$ (52,188)	$ (59,964)	$ (2,534)
Ending Balance	$ (155,993)	$ (51,427)	$ 148,046	$ 312,647	$ 346,662	$ 356,956	$ 236,851	$ 151,436	$ 76,261	$ 24,073	$ (35,891)	$ (38,425)
*Adjusted Annual Purchased fuel costs:	$ 2,574,445	$ 2,562,428	$ 2,554,622	$ 2,565,761	$ 2,552,589	$ 2,538,776	$ 2,517,221	$ 2,547,543	$ 2,559,189	$ 2,534,653	$ 2,553,827	$ 2,578,907
*Adjusted Annual Revenue requirement:	$ 2,756,761	$ 2,744,744	$ 2,736,938	$ 2,748,077	$ 2,734,905	$ 2,721,092	$ 2,699,537	$ 2,729,859	$ 2,741,505	$ 2,716,969	$ 2,736,143	$ 2,761,223
*Adjusted Annual Revenue stream:	$ 2,703,419	$ 2,672,457	$ 2,723,653	$ 2,738,668	$ 2,722,557	$ 2,730,803	$ 2,690,613	$ 2,692,481	$ 2,692,283	$ 2,691,614	$ 2,709,279	$ 2,722,799
Monthly Projection of Year-End												
Over/(under) Collection:	$ (53,342)	$ (72,288)	$ (13,285)	$ (9,409)	$ (12,348)	$ 9,711	$ (8,924)	$ (37,378)	$ (49,222)	$ (25,355)	$ (26,864)	$ (38,425)

Purchased fuel costs:	$ 2,578,907	
REVISED 2013 Over/(Under) Collection:	**$ (200,820)**	**(June 4, 2013 NHPUC audit report)**
PUC audit corrections	**$ 18,504**	**(customer overcharge reimbursement)**
Revenue requirement:	$ 2,761,223	
Revenue stream:	$ 2,722,799	

Concord Steam Corporation **DG 14 -**
Cost Of Energy (COE) **Schedule-8**

Estimated cost of Wood Yard Operations

Tons of wood per year	44,313									
Delivered cost of material	$ 28.00	$	1,240,766							
					Actual		Actual		Actual	
			COE 14		8/13-7/14		8/12-7/13		8/11-7/12	
Yard Lease		$	141,792	$	141,792	$	141,792	$	141,792	
Diesel Fuel Yard/trucking		$	21,000	$	20,719	$	18,091	$	17,343	
Electricity		$	3,000	$	3,613	$	3,267	$	2,937	
Mechanical repairs		$	1,000	$	793	$	1,193	$	903	
Small tools		$	500	$	549	$	137	$	540	
Loader rental		$	51,597	$	51,597	$	51,597	$	51,597	
Tractor rental		$	15,233		15,233		15,233		2,539	
Truck/Loader/scale maintenance		$	10,209	$	10,209	$	13,392	$	9,498	
Contract Hauling		$	-	$	-	$	-	$	-	
Propane heat		$	6,000	$	5,844	$	4,626	$	4,854	
Veh Registration		$	2,500	$	2,398	$	687	$	2,073	
Fees, highway use tax		$	1,000	$	983	$	364	$	364	
Cleaning/office supplies		$	25	$	10					
Highway use tax		$	1,000	$	983	$	1,966	$	725	
Property tax		$	25,500	$	24,226	$	24,746	$	25,245	
Wood Broker		$	35,000	$	35,000	$	35,000	$	35,000	
Subtotal		$	315,356	$	313,950	$	312,091	$	295,409	
Rental revenue	Capital Paving	$	(13,200)							
Total net cost		$	302,156							
Cost of Yard operations per ton		$	6.82							
Delivered cost of material		$	28.00							
Total Cost of wood fuel per ton		$	34.82							

Concord Steam Corporation **DG 14 -**
Cost Of Energy (COE) **Schedule-9**

Other production costs included in COE

	Ash Disposal	Water/Sewer	Treatment Chemicals	State Emission fee	Total 2013/14 Actual	Projected 2014/15
Nov-13	$2,626	$24,895	$2,011		29,531	30,000
Dec-13	$2,626	$34,127	$2,935		39,688	40,000
Jan-14	$5,094	$32,359	$2,987		40,439	42,000
Feb-14	$3,170	$32,801	$3,933		39,904	42,000
Mar-14	$2,716	$27,573	$4,357		34,646	37,000
Apr-14	$2,716	$20,454	$5,073		28,243	29,000
May-14	$1,981	$13,049	$3,343		18,373	20,000
Jun-14	$1,527	$6,899	$2,352		10,778	12,000
Jul-14	$327	$8,145	$1,561		10,033	85,000
Aug-14	$339	$7,945	$1,794	73,099	83,177	10,000
Sep-13	$1,477	$7,375	$1,199		10,050	11,000
Oct-13	$327	$14,494	$2,601		17,422	18,000
Totals	24,925	230,117	34,145	73,099	362,286	376,000

DG 14 - Schedule CB-1
Concord Steam
Cost-Benefit Ratio Summary

Cogen Turbines - Benefit - Cost Analysis
Including Savings from Cogeneration of Electricity

Estimated cost to purchase all electricity from Unitil	*$*	*311,085*
(If there was no self generation)		
Cost of electricity with self generation		
Purchased power from Unitil	*$*	*68,180*
Cost to generate electricity	*$*	*147,951*
Subtotal all costs	*$*	*216,131*
Revenue from sale of power	*$*	*150,574*
Net cost of electricity for CSC	*$*	*65,557*

Benefits:		
Sale of Electricity to ISO	$	150,574
Savings from generating own electricity in lieu of purchasing from Unitil	$	242,905
Total Benefits from continuing Cogen	$	393,480
Costs:		
Operating Expenses, Return and Fuel Costs for Self Generation	$	147,951
	$	147,951
Benefits in Excess of Costs	$	245,528
Benefit/Cost Ratio		**2.66**

DG 14 - Schedule CB-2

Concord Steam

Benefit Computation

Benefits

Sale of Power to ISO-New England:

Volume of kWh's sold from 8/09 - 7/10		1,454,552
Revenues received	**$**	**150,574**
Rate per kWh	$	0.104
Estimated Cost if there was no Self Generation:	*$*	*311,085*

Savings from self-generation of Electricity:

Power purchased from Unitil	*$*	*68,180*
Value of avoided power purchase from Unitil	**$**	**242,905**
Self generated Electricity Consumed (Excl. kWh purchased from Uniti		1,766,248
Average Unitil cost $/kWh	$	0.098

Total Benefits from Sales to ISO and Self-Generation

DG 14 -
Concord Steam
Expense Detail

Schedule CB-3

	Turbine Generator Operating/Maintenance Costs 8/13-7/14
Cost of Sales:	
5-7051 Consumables/Mech.	$ 94
5-7052 Pipe fittings	$ -
5-7053 Valves	$ 118
5-7055 Misc. small tools	$ -
5-7060 Consumables/Elec.	$ 883
5-7065 Consumables/Structural Repairs	$ -
5-7085 Rental Fees/Generator Maint.	$ -
5-7095 Repair Parts/Mech.	$ 625
5-7100 Repair Parts/Elec.	$ -
5-7110 Contract Maintenance & Repair	$ -
Total Cost of Sales	$ 1,720
Expenses:	
Payroll Maintenance - 80 hrs @ $25/hr	$ 2,000
Depreciation	$ 10,485
Amortization	$ 436
Property Tax	$ 1,016
Employer FICA	$ 153
Telephone	$ 600
Insurance/Plant	$ 6,281
Employees Ins. Med.,etc.	$ 400
Misc. Expense	
Total	$ 21,371
Total Revenue Deductions	$ 23,091

Summary of Revenue Requirements:

Rate Base	$ 114,044
Rate of Return	6.92%
Allowed Return	$ 7,892
Revenue Requirements Deficiency/(Surplus)	$ 7,892
Gross-up for Taxes (x 1.68)	$ 13,266

DG 14 -
Concord Steam
Cost

Schedule CB-4

Costs

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Total
Fuel:													
Total kWh's Generated	506,400	403,200	448,800	319,200	144,000	2,400	144,000	16,800	45,600	266,400	451,200	472,800	3,220,800
Total kWh's Sold	221,581	211,598	209,765	144,056	44,387	-	-	10	10,154	129,014	252,032	231,955	1,454,552
$ received from sales	$ 39,137	$ 34,136	$ 26,308	$ 5,880	$ 1,489	$ -	$ -	$ 0	$ 315	$ 4,540	$ 11,807	$ 26,962	$ 150,574
Btu's/kWh	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Btu/Lb Steam @ 125 psig. 430 F	1,150	1,150	1,150	1,150	1,150	1,150	1,150	1,150	1,150	1,150	1,150	1,150	1,150
Total M Lbs of Steam	1,761	1,402	1,561	1,110	501	8	501	58	159	927	1,569	1,645	11,203
Fuel cost $/MMBtu	7.25	5.60	5.10	5.06	4.59	5.40	5.27	4.20	5.38	5.37	5.60	5.48	
Fuel Cost per MLb	$ 13.89	$ 10.73	$ 9.77	$ 9.70	$ 8.80	$ 10.34	$ 10.10	$ 8.05	$ 10.31	$ 10.30	$ 10.73	$ 10.51	
Total Fuel Cost of Steam	$ 24,469	$ 15,051	$ 15,253	$ 10,774	$ 4,406	$ 86	$ 5,061	$ 471	$ 1,635	$ 9,541	$ 16,837	$ 17,286	$ 120,869
Total Fuel Cost of Steam	$ 24,469	$ 15,051	$ 15,253	$ 10,774	$ 4,406	$ 86	$ 5,061	$ 471	$ 1,635	$ 9,541	$ 16,837	$ 17,286	$ 120,869
Overhead:	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 23,091
Total Overhead	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 1,924	$ 23,091
Return on Investment													
Rate Base													$ 114,044
Rate of Return													3.50%
Total Return on Investment	$ 333	$ 333	$ 333	$ 333	$ 333	$ 333	$ 333	$ 333	$ 333	$ 333	$ 333	$ 333	$ 3,992
Grand Total Costs	$ 26,726	$ 17,308	$ 17,510	$ 13,031	$ 6,663	$ 2,343	$ 7,317	$ 2,728	$ 3,892	$ 11,798	$ 19,094	$ 19,542	$ 147,951
Total Volume kWh's													3,220,800
Rate per kWh	$ 0.0528												$ 0.04594

Purchased Power Costs
Cost Benefit Analysis
09/15/2013

DG 14 -
Concord Steam
Purchased Power Costs

Schedule CB-5

	Purchased Power kWh	Demand Charge	Energy Charge	Delivery Charge	Energy Total	Energy Cost $/kWh	Power generated used in house kWh	Cost if power were purchased
Aug-13	83,683	2,035	6,682	2,151	$ 10,868	0.106	16,790	$ 1,772
Sep-13	75,696	2,038	4,486	1,982	$ 8,506	0.085	35,446	$ 3,029
Oct-13	26,976	2,038	1,770	707	$ 4,515	0.092	137,386	$ 12,615
Nov-13	1,469	2,038	89	38	$ 2,165	0.086	199,168	$ 17,219
Dec-13	0	2,038	0	0	$ 2,038	0.095	240,845	$ 22,880
Jan-14	1,075	2,051	123	28	$ 2,202	0.140	284,819	$ 40,007
Feb-14	14,362	2,167	2,304	376	$ 4,847	0.187	191,602	$ 35,754
Mar-14	48	1,736	9	1	$ 1,746	0.208	239,035	$ 49,799
Apr-14	4,214	1,736	738	110	$ 2,584	0.201	175,144	$ 35,245
May-14	36,154	1,780	3,320	946	$ 6,046	0.118	99,613	$ 11,754
Jun-14	100,790	1,916	6,410	2,640	$ 10,966	0.090	2,400	$ 215
Jul-14	108,010	2,234	6,634	2,829	$ 11,697	0.088	144,000	$ 12,616
Total	452,477	23,807	32,565	11,808	$ 68,180	0.098	1,766,248	$ 242,905

Average Cost/kwh $ 0.098