Northern Utilities
Simplified Market Based Alloctor (MBA) Calculations
COMMODITY COSTS

		Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	TOTAL	WINTER	SUMMER
1	**Supply Volumes - Therms**															
2																
3	Total Pipeline	363,549	447,550	460,049	418,551	372,392	573,282	403,398	241,053	245,121	215,458	278,745	534,143	4,553,291	2,635,373	1,917,918
4	Total Storage	558,315	797,842	954,430	810,013	677,590	60	0	0	0	0	0	0	3,798,250	3,798,250	0
5	Total Peaking	55,463	135,844	189,875	144,360	153,829	95,359	1,395	1,350	1,395	1,395	1,350	1,395	783,010	774,730	8,280
7	Less Interruptible	5,009	849	0	0	1,243	2,665	4,715	4,765	4,505	4,505	4,505	4,765	37,526	9,766	27,760
6	Subtotal	972,318	1,380,387	1,604,354	1,372,924	1,202,568	666,036	400,078	237,638	242,011	212,348	275,590	530,773	9,097,025	7,198,587	1,898,438
7	Less Company Use	6,927	10,343	12,175	10,362	8,843	5,629	2,998	1,398	1,088	1,104	1,878	4,378	67,123	54,279	12,844
8	Total Firm	965,391	1,369,195	1,592,179	1,362,562	1,192,482	657,742	392,365	231,475	236,418	206,739	269,207	521,630	8,997,385	7,139,551	1,857,834
9																
10	**Variable Costs**															
11																
12	Total Pipeline	$ 2,598,638	$ 3,646,209	$ 3,958,967	$ 3,610,549	$ 3,131,712	$ 4,491,193	$ 3,137,452	$ 1,878,676	$ 1,934,513	$ 1,714,671	$ 2,242,556	$ 4,947,435	$ 37,292,571	$ 21,437,268	$ 15,855,304
13	Total Storage	$ 3,979,242	$ 5,582,502	$ 6,661,832	$ 5,643,426	$ 4,710,167	$ 75,322	$ 26,443	$ 1,414	$ 3,106	$ 5,180	$ 7,321	$ 9,424	$ 26,705,379	$ 26,652,491	$ 52,888
14	Total Peaking	$ 459,619	$ 878,247	$ 1,429,596	$ 1,042,767	$ 1,097,877	$ 700,097	$ 78,821	$ 67,989	$ 58,213	$ 47,750	$ 36,940	$ 115,678	$ 6,013,595	$ 5,608,203	$ 405,391
15	Subtotal	$ 7,037,499	$ 10,106,958	$ 12,050,394	$ 10,296,743	$ 8,939,756	$ 5,266,612	$ 3,242,717	$ 1,948,079	$ 1,995,833	$ 1,767,602	$ 2,286,817	$ 5,072,536	$ 70,011,545	$ 53,697,962	$ 16,313,583
16	Less Interruptible Incl Above	$ 39,872	$ 892	$ -	$ -	$ 1,243	$ 22,972	$ 40,832	$ 42,790	$ 41,446	$ 42,933	$ 42,888	$ 44,934	$ 320,802	$ 64,979	$ 255,823
17	Total (Without Interr)	$ 6,997,627	$ 10,106,066	$ 12,050,394	$ 10,296,743	$ 8,938,513	$ 5,243,640	$ 3,201,885	$ 1,905,289	$ 1,954,387	$ 1,724,669	$ 2,243,929	$ 5,027,602	$ 69,690,743	$ 53,632,983	$ 16,057,760
18																
19																
20	**Commodity Allocation Factors**															
21	**Therms**															
22	Maine	495,651	679,310	783,806	677,283	597,670	274,280	170,630	99,747	86,853	88,068	116,221	224,276	4,293,795	3,508,000	785,795
23	New Hampshire	476,664	701,073	820,543	695,637	604,896	391,755	229,448	137,891	155,160	124,282	159,368	306,499	4,803,216	3,690,568	1,112,648
24	Total	972,315	1,380,383	1,604,349	1,372,920	1,202,566	666,035	400,078	237,638	242,013	212,350	275,589	530,775	9,097,011	7,198,568	1,898,443
25																
26	**Percentage of Total**															
27	Maine	50.98%	49.21%	48.86%	49.33%	49.70%	41.18%	42.65%	41.97%	35.89%	41.47%	42.17%	42.25%	47.20%	48.73%	41.39%
28	New Hampshire	49.02%	50.79%	51.14%	50.67%	50.30%	58.82%	57.35%	58.03%	64.11%	58.53%	57.83%	57.75%	52.80%	51.27%	58.61%
29	Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
30																
31																
32	**Commodity Allocation by Jurisdiction**															
33	Maine	$3,567,137	$4,973,367	$5,887,230	$5,079,545	$4,442,402	$2,159,384	$1,365,578	$799,733	$701,385	$715,272	$946,306	$2,124,385	$32,761,725	$26,109,065	$6,652,660
34	New Hampshire	$3,430,490	$5,132,699	$6,163,165	$5,217,198	$4,496,112	$3,084,255	$1,836,307	$1,105,556	$1,253,002	$1,009,396	$1,297,622	$2,903,217	$36,929,018	$27,523,918	$9,405,100
35	Total	$6,997,627	$10,106,066	$12,050,394	$10,296,743	$8,938,513	$5,243,640	$3,201,885	$1,905,289	$1,954,387	$1,724,669	$2,243,929	$5,027,602	$69,690,743	$53,632,983	$16,057,760

Northern Utilities
Simplified Market Based Alloctor (MBA) Calculations
FIXED CAPACITY-RELATED COSTS

Proportional Responsibility (PR) Allocator Used to Allocate Product and Pipeline Demand Costs (including Injections)
(based on Pipeline Design Day Sendout)

	Pipeline Vos	Rank	%WINTER	PR	CumPR	$$
NOV	446,089	8	54.91%	0.663%	4.968%	$382,347
DEC	603,991	3	74.34%	0.070%	8.691%	$668,851
JAN	524,481	6	64.56%	0.742%	6.453%	$496,592
FEB	488,288	7	60.10%	0.742%	5.710%	$439,452
MAR	602,294	4	74.14%	1.266%	8.622%	$663,493
APR	812,424	1	100.00%	15.340%	29.189%	$2,246,323
MAY	561,159	5	69.07%	0.903%	7.356%	$566,079
JUN	360,812	10	44.41%	0.034%	3.728%	$286,926
JUL	334,749	12	41.20%	3.434%	3.434%	$264,245
AUG	358,051	11	44.07%	0.261%	3.694%	$284,311
SEP	403,021	9	49.61%	0.577%	4.306%	$331,352
OCT	687,796	2	84.66%	5.158%	13.849%	$1,065,775
TOTAL	6,183,155			29.189%	100.000%	$7,695,745

Proportional Responsibility (PR) Allocator Used to Allocate Storage and Peaking Demand Costs
(based on Storage Withdrawls from Design Day Sendout)

	Storage Withdrawal Vols	Rank	%WINTER	PR	CumPR	$$	Less Injection Fees	TOTAL
NOV	546,167	5	52.91%	10.581%	10.582%	$2,065,877	$0	$2,065,877
DEC	756,069	3	73.24%	5.940%	17.150%	$3,348,255	$0	$3,348,255
JAN	1,032,277	1	100.00%	13.632%	37.345%	$7,290,913	$0	$7,290,913
FEB	891,556	2	86.37%	6.563%	23.713%	$4,629,478	$0	$4,629,478
MAR	572,120	4	55.42%	0.629%	11.210%	$2,188,588	$0	$2,188,588
APR	60	6	0.01%	0.001%	0.001%	$189	$0	$189
MAY	0	7	0.00%	0.000%	0.000%	$0	$843	$843
JUN	0	7	0.00%	0.000%	0.000%	$0	$25,069	$25,069
JUL	0	7	0.00%	0.000%	0.000%	$0	$36,978	$36,978
AUG	0	7	0.00%	0.000%	0.000%	$0	$37,539	$37,539
SEP	0	7	0.00%	0.000%	0.000%	$0	$38,324	$38,324
OCT	0	7	0.00%	0.000%	0.000%	$0	$78,206	$78,206
TOTAL	3,798,249			37.345%	100.000%	$19,523,301	$216,960	$19,740,261
		7						

Percentage of Deliveries Injected - Allocator Used to Allocate Storage Injection Fees

	Storage Injection Vols	Pipeline	Percentage of Deliveries Inj.	Injection Fees
NOV	0	446,089	0.00%	$0
DEC	0	603,991	0.00%	$0
JAN	0	524,481	0.00%	$0
FEB	0	488,288	0.00%	$0
MAR	0	602,294	0.00%	$0
APR	0	812,424	0.00%	$0
MAY	837	561,159	0.15%	$843
JUN	34,543	360,812	8.74%	$25,069
JUL	54,467	334,749	13.99%	$36,978
AUG	54,467	358,051	13.20%	$37,539
SEP	52,710	403,021	11.57%	$38,324
OCT	54,467	687,796	7.34%	$78,206
TOTAL	251,491	6,183,155	3.91%	$216,960

Northern Utilities
Simplified Market Based Alloctor (MBA) Calculations
FIXED CAPACITY-RELATED COSTS

Total Fixed Capacity Related Costs

	TOTAL
Pipeline Demand	$7,695,745
Product Demand	$0
Storage Demand	$15,994,101
Peaking Demand	$3,529,200
Subtotal Demand	**$27,219,046**
Capacity Release	$0
Total Demand	**$27,219,046**

	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	TOTAL
Pipeline & Product Demand	$382,347	$668,851	$496,592	$439,452	$663,493	$2,246,323	$566,079	$286,926	$264,245	$284,311	$331,352	$1,065,775	$7,695,745
Storage & Peaking	$2,065,877	$3,348,255	$7,290,913	$4,629,478	$2,188,588	$189	$843	$25,069	$36,978	$37,539	$38,324	$78,206	$19,740,261
Less: Injection Fees	0	0	0	0	0	0	(843)	(25,069)	(36,978)	(37,539)	(38,324)	(78,206)	($216,960)
Less: Capacity Release	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	$0
Total Demand	**$2,448,224**	**$4,017,106**	**$7,787,505**	**$5,068,930**	**$2,852,081**	**$2,246,512**	**$566,079**	**$286,926**	**$264,245**	**$284,311**	**$331,352**	**$1,065,775**	**$27,219,046**

Firm Sendout Allocation based on PR Allocater Dispatch

	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	TOTAL
Therms													
Maine	514,145	714,625	825,775	712,413	625,501	423,286	287,159	195,329	183,966	176,296	217,536	356,478	5,232,509
New Hampshire	504,911	752,599	880,133	746,568	646,423	388,202	225,243	135,319	152,178	121,910	156,407	300,941	5,010,834
Total	1,019,056	1,467,224	1,705,908	1,458,981	1,271,924	811,488	512,402	330,648	336,144	298,206	373,943	657,419	10,243,343

Percentage of Total	**Nov-07**	**Dec-07**	**Jan-08**	**Feb-08**	**Mar-08**	**Apr-08**	**May-08**	**Jun-08**	**Jul-08**	**Aug-08**	**Sep-08**	**Oct-08**	**TOTAL**
Maine	50.45%	48.71%	48.41%	48.83%	49.18%	52.16%	56.04%	59.07%	54.73%	59.12%	58.17%	54.22%	49.90%
New Hampshire	49.55%	51.29%	51.59%	51.17%	50.82%	47.84%	43.96%	40.93%	45.27%	40.88%	41.83%	45.78%	50.10%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Demand Allocation by Jurisdiction													
Maine	$1,235,204	$1,956,569	$3,769,680	$2,475,133	$1,402,583	$1,171,819	$317,241	$169,501	$144,617	$168,081	$192,759	$577,905	$13,581,091
New Hampshire	$1,213,020	$2,060,537	$4,017,825	$2,593,797	$1,449,498	$1,074,693	$248,838	$117,426	$119,628	$116,230	$138,593	$487,871	$13,637,955
Total	$2,448,224	$4,017,106	$7,787,505	$5,068,930	$2,852,081	$2,246,512	$566,079	$286,926	$264,245	$284,311	$331,352	$1,065,775	$27,219,046

Detailed Demand Allocation by Jurisdiction

Maine	**Nov-07**	**Dec-07**	**Jan-08**	**Feb-08**	**Mar-08**	**Apr-08**	**May-08**	**Jun-08**	**Jul-08**	**Aug-08**	**Sep-08**	**Oct-08**	**TOTAL**	
Pipeline & Product Demand	$ 192,906	$ 325,770	$ 240,384	$ 214,582	$ 326,289	$ 1,171,720	$ 317,241	$ 169,501	$ 144,617	$ 168,081	$ 192,759	$ 577,905	$ 4,041,755	52.52%
Storage & Peaking	$ 1,042,298	$ 1,630,799	$ 3,529,296	$ 2,260,550	$ 1,076,294	$ 99	$ 472	$ 14,810	$ 20,238	$ 22,193	$ 22,295	$ 42,406	$ 9,661,749	48.86%
Injection Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ (472)	$ (14,810)	$ (20,238)	$ (22,193)	$ (22,295)	$ (42,406)	$ (122,413)	
Capacity Release	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%
Total Demand, Maine	$ 1,235,204	$ 1,956,569	$ 3,769,680	$ 2,475,133	$ 1,402,583	$ 1,171,819	$ 317,241	$ 169,501	$ 144,617	$ 168,081	$ 192,759	$ 577,905	$ 13,581,091	49.90%
NH														
Pipeline & Product Demand	$ 189,441	$ 343,081	$ 256,208	$ 224,870	$ 337,203	$ 1,074,603	$ 248,838	$ 117,426	$ 119,628	$ 116,230	$ 138,593	$ 487,871	$ 3,653,990	47.48%
Storage & Peaking	$ 1,023,579	$ 1,717,457	$ 3,761,617	$ 2,368,927	$ 1,112,294	$ 90	$ 371	$ 10,260	$ 16,741	$ 15,346	$ 16,030	$ 35,800	$ 10,078,512	51.14%
Injection Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ (371)	$ (10,260)	$ (16,741)	$ (15,346)	$ (16,030)	$ (35,800)	$ (94,547)	
Capacity Release	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%
Total Demand, NH	$ 1,213,020	$ 2,060,537	$ 4,017,825	$ 2,593,797	$ 1,449,498	$ 1,074,693	$ 248,838	$ 117,426	$ 119,628	$ 116,230	$ 138,593	$ 487,871	$ 13,637,955	50.10%