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

		Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	TOTAL	WINTER	SUMMER
1	**Supply Volumes - Therms**															
2																
3	Total Pipeline	411,537	452,630	453,013	408,185	422,013	664,323	507,143	313,875	272,024	244,739	357,375	606,247	5,113,104	2,811,701	2,301,403
4	Total Storage	505,174	686,182	811,844	750,093	609,893	110	0	0	0	0	0	0	3,363,296	3,363,296	0
5	Total Peaking	73,980	155,620	193,612	140,170	154,232	53,501	1,395	1,350	1,395	1,395	1,350	1,395	779,395	771,115	8,280
7	**Less Interruptible**	5,380	892	0	0	1,306	2,692	4,715	4,765	4,505	4,505	4,505	4,765	38,030	10,270	27,760
6	Subtotal	985,311	1,293,540	1,458,469	1,298,448	1,184,832	715,242	503,823	310,460	268,914	241,629	354,220	602,877	9,217,765	6,935,842	2,281,923
7	Less Company Use	6,470	9,574	11,239	9,591	8,211	5,290	2,900	1,444	1,161	1,176	1,881	4,154	63,091	50,375	12,716
8	Total Firm	978,841	1,283,074	1,447,230	1,288,857	1,175,315	707,260	496,208	304,251	263,248	235,948	347,834	593,958	9,122,024	6,880,577	2,241,447
9																
10	**Variable Costs**															
11																
12	Total Pipeline	$ 4,370,400	$ 4,992,351	$ 5,111,428	$ 4,590,921	$ 4,612,403	$ 6,261,575	$ 5,024,375	$ 3,098,943	$ 2,698,667	$ 2,436,978	$ 3,597,025	$ 6,236,096	$ 53,031,162	$ 29,939,079	$ 23,092,083
13	Total Storage	$ 27,909	$ 37,879	$ 49,181	$ 40,792	$ 33,198	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 188,959	$ 188,959	$ -
14	Total Peaking	$ 449,300	$ 923,955	$ 1,236,165	$ 834,540	$ 923,955	$ 328,280	$ 20,046	$ 19,404	$ 20,046	$ 20,046	$ 19,404	$ 11,846	$ 4,806,985	$ 4,696,195	$ 110,790
15	Subtotal	$ 4,847,609	$ 5,954,185	$ 6,396,774	$ 5,466,253	$ 5,569,556	$ 6,589,855	$ 5,044,421	$ 3,118,346	$ 2,718,713	$ 2,457,024	$ 3,616,429	$ 6,247,941	$ 58,027,106	$ 34,824,233	$ 23,202,873
16	Less Interruptible Incl Above	$ 42,825	$ 892	$ -	$ -	$ 1,294	$ 22,972	$ 40,832	$ 42,790	$ 41,446	$ 42,933	$ 42,888	$ 44,934	$ 323,806	$ 67,983	$ 255,823
17	Total (Without Interr)	$ 4,804,784	$ 5,953,293	$ 6,396,774	$ 5,466,253	$ 5,568,262	$ 6,566,883	$ 5,003,589	$ 3,075,556	$ 2,677,267	$ 2,414,091	$ 3,573,541	$ 6,203,007	$ 57,703,300	$ 34,756,250	$ 22,947,050
18																
19																
20	**Commodity Allocation Factors**															
21	**Therms**															
22	Maine	485,298	623,085	699,346	623,434	571,790	278,565	191,977	109,134	93,415	84,019	130,962	232,924	4,123,949	3,281,518	842,431
23	New Hampshire	500,447	670,452	759,117	675,009	613,036	436,678	311,844	201,325	175,501	157,612	223,257	369,954	5,094,232	3,654,739	1,439,493
24	Total	985,745	1,293,537	1,458,463	1,298,443	1,184,826	715,243	503,821	310,459	268,916	241,631	354,219	602,878	9,218,181	6,936,257	2,281,924
25																
26	**Percentage of Total**															
27	Maine	49.23%	48.17%	47.95%	48.01%	48.26%	38.95%	38.10%	35.15%	34.74%	34.77%	36.97%	38.64%	44.74%	47.31%	36.92%
28	New Hampshire	50.77%	51.83%	52.05%	51.99%	51.74%	61.05%	61.90%	64.85%	65.26%	65.23%	63.03%	61.36%	55.26%	52.69%	63.08%
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%
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31																
32	**Commodity Allocation by Jurisdiction**															
33	Maine	$2,365,472	$2,867,647	$3,067,310	$2,624,565	$2,687,210	$2,557,598	$1,906,578	$1,081,134	$930,018	$839,418	$1,321,211	$2,396,553	$24,644,715	$16,169,802	$8,474,913
34	New Hampshire	$2,439,312	$3,085,646	$3,329,464	$2,841,688	$2,881,052	$4,009,285	$3,097,011	$1,994,422	$1,747,248	$1,574,672	$2,252,330	$3,806,454	$33,058,585	$18,586,448	$14,472,137
35	Total	$4,804,784	$5,953,293	$6,396,774	$5,466,253	$5,568,262	$6,566,883	$5,003,589	$3,075,556	$2,677,267	$2,414,091	$3,573,541	$6,203,007	$57,703,300	$34,756,250	$22,947,050

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

#	Total Fixed Capacity Related Costs	
2		TOTAL
3	Pipeline Demand	$7,695,745
4	Product Demand	$0
5	Storage Demand	$15,994,101
6	Peaking Demand	$3,529,200
7	Subtotal Demand	$27,219,046
8	Capacity Release	$0
9	Total Demand	$27,219,046
10		
11		

#		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
12		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
13	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
14	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
15	Less: Injection Fees	0	0	0	0	0	0	(843)	(25,069)	(36,978)	(37,539)	(38,324)	(78,206)	($216,960)
16	Less: Capacity Release	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	$0
17	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
18														
19	Firm Sendout Allocation based on PR Allocater Dispatch													
20		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
21	Therms													
22	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
23	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
24	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
25														
26	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
27	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%
28	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%
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%
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31	Demand Allocation by Jurisdiction													
32	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
33	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
34	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
35														

#	Detailed Demand Allocation by Jurisdiction														
37															
39	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	
40	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%
41	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%
42	Injection Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ (472)	$ (14,810)	$ (20,238)	$ (22,193)	$ (22,295)	$ (42,406)	$ (122,413)	
43	Capacity Release	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%
44	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%
45															
46															
47	NH														
48	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%
49	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%
50	Injection Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ (371)	$ (10,260)	$ (16,741)	$ (15,346)	$ (16,030)	$ (35,800)	$ (94,547)	
51	Capacity Release	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%
52	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%