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

		Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	TOTAL	WINTER	SUMMER
1	**Supply Volumes - Therms**															
2																
3	Total Pipeline	500,218	456,648	466,707	437,548	886,927	705,531	401,111	262,249	272,193	244,288	294,730	516,970	5,445,120	3,453,579	1,991,541
4	Total Storage	383,742	812,730	982,936	894,846	258,265	28	0	0	0	0	0	0	3,332,547	3,332,547	0
5	Total Peaking	134,831	157,660	199,350	141,997	146,875	1,350	1,395	1,350	1,395	1,395	1,350	1,395	790,343	782,063	8,280
7	Less Interruptible	577	0	0	0	0	2,540	3,540	3,540	2,540	1,540	790	640	15,707	3,117	12,590
6	Subtotal	1,018,214	1,427,038	1,648,993	1,474,391	1,292,067	704,369	398,966	260,059	271,048	244,143	295,290	517,725	9,552,303	7,565,072	1,987,231
7	Less Company Use	6,226	9,284	10,993	9,238	7,937	5,076	2,813	1,374	1,098	1,115	1,704	3,943	60,801	48,754	12,047
8	Total Firm	1,011,988	1,417,754	1,638,000	1,465,153	1,284,130	696,753	392,613	255,145	267,410	241,488	292,796	513,142	9,476,372	7,513,778	1,962,594
9																
10	**Variable Costs**															
11																
12	Total Pipeline	$ 4,677,917	$ 4,506,930	$ 4,726,835	$ 4,443,664	$ 8,642,399	$ 6,497,090	$ 3,614,929	$ 2,355,930	$ 2,475,928	$ 2,234,864	$ 2,724,387	$ 4,909,936	$ 51,810,807	$ 33,494,834	$ 18,315,97[illegible]
13	Total Storage	$ 4,255,081	$ 8,754,097	$ 10,538,486	$ 9,626,863	$ 2,772,630	$ 8,493	$ -	$ -	$ -	$ -	$ -	$ -	$ 35,955,650	$ 35,955,650	$ -
14	Total Peaking	$ 887,545	$ 986,532	$ 1,577,541	$ 868,526	$ 915,279	$ 49,620	$ 20,755	$ 20,090	$ 20,755	$ 20,755	$ 20,090	$ 100,795	$ 5,488,283	$ 5,285,043	$ 203,240
15	Subtotal	$ 9,820,543	$ 14,247,559	$ 16,842,862	$ 14,939,053	$ 12,330,308	$ 6,555,203	$ 3,635,684	$ 2,376,020	$ 2,496,683	$ 2,255,619	$ 2,744,477	$ 5,010,731	$ 93,254,740	$ 74,735,527	$ 18,519,213
16	Less Interruptible Incl Above	$ 4,593	$ -	$ -	$ -	$ -	$ 21,895	$ 30,656	$ 31,789	$ 23,368	$ 14,676	$ 7,521	$ 6,035	$ 140,533	$ 26,488	$ 114,045
17	Total (Without Interr)	$ 9,815,950	$ 14,247,559	$ 16,842,862	$ 14,939,053	$ 12,330,308	$ 6,533,308	$ 3,605,028	$ 2,344,231	$ 2,473,315	$ 2,240,943	$ 2,736,956	$ 5,004,696	$ 93,114,207	$ 74,709,039	$ 18,405,168
18																
19																
20	**Commodity Allocation Factors**															
21	**Therms**															
22	Maine	532,884	727,857	823,168	735,866	639,532	276,061	154,202	86,877	94,340	84,856	89,241	189,939	4,434,823	3,735,368	699,455
23	New Hampshire	485,332	699,179	825,820	738,521	652,530	428,307	244,765	173,182	176,709	159,288	206,048	327,787	5,117,468	3,829,689	1,287,779
24	Total	1,018,216	1,427,036	1,648,988	1,474,387	1,292,062	704,368	398,967	260,059	271,049	244,144	295,289	517,726	9,552,291	7,565,057	1,987,234
25																
26	**Percentage of Total**															
27	Maine	52.34%	51.00%	49.92%	49.91%	49.50%	39.19%	38.65%	33.41%	34.81%	34.76%	30.22%	36.69%	46.43%	49.38%	35.20%
28	New Hampshire	47.66%	49.00%	50.08%	50.09%	50.50%	60.81%	61.35%	66.59%	65.19%	65.24%	69.78%	63.31%	53.57%	50.62%	64.80%
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	$5,137,184	$7,266,940	$8,407,887	$7,456,076	$6,103,133	$2,560,581	$1,393,355	$783,129	$860,850	$778,874	$827,151	$1,836,081	$43,411,241	$36,931,801	$6,479,440
34	New Hampshire	$4,678,766	$6,980,618	$8,434,975	$7,482,977	$6,227,175	$3,972,727	$2,211,673	$1,561,102	$1,612,465	$1,462,069	$1,909,805	$3,168,615	$49,702,966	$37,777,238	$11,925,728
35	Total	$9,815,950	$14,247,559	$16,842,862	$14,939,053	$12,330,308	$6,533,308	$3,605,028	$2,344,231	$2,473,315	$2,240,943	$2,736,956	$5,004,696	$93,114,207	$74,709,039	$18,405,168

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	667,586	3	73.54%	5.397%	11.988%	$1,701,391
DEC	459,133	7	50.58%	0.909%	5.158%	$732,073
JAN	496,662	5	54.71%	0.506%	5.931%	$841,820
FEB	473,716	6	52.18%	0.268%	5.426%	$770,072
MAR	907,802	1	100.00%	21.475%	35.956%	$5,103,131
APR	712,853	2	78.53%	2.493%	14.481%	$2,055,248
MAY	401,350	8	44.21%	1.364%	4.249%	$603,016
JUN	265,942	11	29.30%	0.131%	2.452%	$348,032
JUL	276,019	10	30.41%	0.111%	2.563%	$363,786
AUG	252,872	12	27.86%	2.321%	2.321%	$329,455
SEP	302,279	9	33.30%	0.321%	2.885%	$409,404
OCT	520,599	4	57.35%	0.659%	6.591%	$935,380
TOTAL	5,736,813			35.956%	100.000%	$14,192,809

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	280,891	5	27.15%	5.430%	5.430%	$916,612	$0	$916,612
DEC	898,865	3	86.89%	18.767%	25.056%	$4,229,368	$0	$4,229,368
JAN	1,034,523	1	100.00%	9.925%	36.575%	$6,173,759	$9,798	$6,183,557
FEB	931,846	2	90.07%	1.594%	26.650%	$4,498,435	$22,893	$4,521,327
MAR	316,407	4	30.58%	0.858%	6.289%	$1,061,486	$7,830	$1,069,316
APR	30	6	0.00%	0.000%	0.000%	$82	$148,098	$148,180
MAY	0	7	0.00%	0.000%	0.000%	$0	$351,326	$351,326
JUN	0	7	0.00%	0.000%	0.000%	$0	$238,086	$238,086
JUL	0	7	0.00%	0.000%	0.000%	$0	$250,949	$250,949
AUG	0	7	0.00%	0.000%	0.000%	$0	$233,336	$233,336
SEP	0	7	0.00%	0.000%	0.000%	$0	$271,337	$271,337
OCT	0	7	0.00%	0.000%	0.000%	$0	$517,134	$517,134
TOTAL	3,462,562			36.575%	100.000%	$16,879,742	$2,050,787	$18,930,530
		7						

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

	Storage Injection Vols	Pipeline	Percentage of Deliveries Inj.	Injection Fees
NOV	0	667,586	0.00%	$0
DEC	0	459,133	0.00%	$0
JAN	5,849	496,662	1.16%	$9,798
FEB	14,514	473,716	2.97%	$22,893
MAR	1,395	907,802	0.15%	$7,830
APR	55,356	712,853	7.21%	$148,098
MAY	560,232	401,350	58.26%	$351,326
JUN	575,893	265,942	68.41%	$238,086
JUL	613,862	276,019	68.98%	$250,949
AUG	613,862	252,872	70.82%	$233,336
SEP	594,060	302,279	66.28%	$271,337
OCT	643,687	520,599	55.29%	$517,134
TOTAL	3,678,710	5,736,813	39.07%	$2,050,787

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

Total Fixed Capacity Related Costs

	TOTAL
Pipeline Demand	$9,988,459
Product Demand	$4,204,350
Storage Demand	$16,879,742
Peaking Demand	$0
Subtotal Demand	**$31,072,551**
Capacity Release	($960,000)
Total Demand	**$30,112,551**

	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	TOTAL
Pipeline & Product Demand	$1,701,391	$732,073	$841,820	$770,072	$5,103,131	$2,055,248	$603,016	$348,032	$363,786	$329,455	$409,404	$935,380	$14,192,809
Storage & Peaking	$916,612	$4,229,368	$6,183,557	$4,521,327	$1,069,316	$148,180	$351,326	$238,086	$250,949	$233,336	$271,337	$517,134	$18,930,530
Less: Injection Fees	0	0	(9,798)	(22,893)	(7,830)	(148,098)	(351,326)	(238,086)	(250,949)	(233,336)	(271,337)	(517,134)	($2,050,787)
Less: Capacity Release	($192,000)	($192,000)	($192,000)	($192,000)	($192,000)	$0	0	0	0	0	0	0	($960,000)
Total Demand	**$2,426,003**	**$4,769,441**	**$6,823,579**	**$5,076,507**	**$5,972,617**	**$2,055,330**	**$603,016**	**$348,032**	**$363,786**	**$329,455**	**$409,404**	**$935,380**	**$30,112,551**

Firm Sendout Allocation based on PR Allocater Dispatch

	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	TOTAL
Therms													
Maine	555,860	768,621	869,777	777,372	672,236	441,279	276,674	187,343	195,668	94,680	189,182	324,856	5,353,548
New Hampshire	520,139	747,644	875,485	786,439	702,698	435,561	243,910	175,796	178,469	164,813	209,777	327,410	5,368,141
Total	1,075,999	1,516,265	1,745,262	1,563,811	1,374,934	876,840	520,584	363,139	374,137	259,493	398,959	652,266	10,721,689
Percentage of Total	**Nov-08**	**Dec-08**	**Jan-09**	**Feb-09**	**Mar-09**	**Apr-09**	**May-09**	**Jun-09**	**Jul-09**	**Aug-09**	**Sep-09**	**Oct-09**	**TOTAL**
Maine	51.66%	50.69%	49.84%	49.71%	48.89%	50.33%	53.15%	51.59%	52.30%	36.49%	47.42%	49.80%	49.88%
New Hampshire	48.34%	49.31%	50.16%	50.29%	51.11%	49.67%	46.85%	48.41%	47.70%	63.51%	52.58%	50.20%	50.12%
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	$1,253,271	$2,417,712	$3,400,631	$2,523,536	$2,920,146	$1,034,367	$320,484	$179,549	$190,255	$120,207	$194,135	$465,859	$15,020,152
New Hampshire	$1,172,732	$2,351,729	$3,422,948	$2,552,970	$3,052,471	$1,020,963	$282,532	$168,483	$173,532	$209,249	$215,269	$469,521	$15,092,399
Total	$2,426,003	$4,769,441	$6,823,579	$5,076,507	$5,972,617	$2,055,330	$603,016	$348,032	$363,786	$329,455	$409,404	$935,380	$30,112,551

Detailed Demand Allocation by Jurisdiction

Maine	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	TOTAL	
Pipeline & Product Demand	$ 878,937	$ 371,100	$ 419,534	$ 382,803	$ 2,495,035	$ 1,034,326	$ 320,484	$ 179,549	$ 190,255	$ 120,207	$ 194,135	$ 465,859	$ 7,052,223	49.69%
Storage & Peaking	$ 473,521	$ 2,143,940	$ 3,081,667	$ 2,247,556	$ 522,813	$ 74,573	$ 186,719	$ 122,828	$ 131,242	$ 85,136	$ 128,665	$ 257,555	$ 9,456,215	50.06%
Injection Fees	$ -	$ -	$ (4,883)	$ (11,380)	$ (3,828)	$ (74,532)	$ (186,719)	$ (122,828)	$ (131,242)	$ (85,136)	$ (128,665)	$ (257,555)	$ (1,006,769)	
Capacity Release	$ (99,187)	$ (97,328)	$ (95,686)	$ (95,443)	$ (93,873)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ (481,518)	0.00%
Total Demand, Maine	$ 1,253,271	$ 2,417,712	$ 3,400,631	$ 2,523,536	$ 2,920,146	$ 1,034,367	$ 320,484	$ 179,549	$ 190,255	$ 120,207	$ 194,135	$ 465,859	$ 15,020,152	49.88%
NH														
Pipeline & Product Demand	$ 822,454	$ 360,972	$ 422,287	$ 387,268	$ 2,608,096	$ 1,020,923	$ 282,532	$ 168,483	$ 173,532	$ 209,249	$ 215,269	$ 469,521	$ 7,140,586	50.31%
Storage & Peaking	$ 443,091	$ 2,085,428	$ 3,101,891	$ 2,273,771	$ 546,504	$ 73,607	$ 164,607	$ 115,258	$ 119,706	$ 148,200	$ 142,672	$ 259,579	$ 9,474,314	49.94%
Injection Fees	$ -	$ -	$ (4,915)	$ (11,513)	$ (4,002)	$ (73,566)	$ (164,607)	$ (115,258)	$ (119,706)	$ (148,200)	$ (142,672)	$ (259,579)	$ (1,044,019)	
Capacity Release	$ (92,813)	$ (94,672)	$ (96,314)	$ (96,557)	$ (98,127)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ (478,482)	0.00%
Total Demand, NH	$ 1,172,732	$ 2,351,729	$ 3,422,948	$ 2,552,970	$ 3,052,471	$ 1,020,963	$ 282,532	$ 168,483	$ 173,532	$ 209,249	$ 215,269	$ 469,521	$ 15,092,399	50.12%