

B. Analytical Process and Assumptions

In preparing this IRP, the Company analyzed three demand scenarios: a low-demand case, a base case and a high-demand case, as described in Section III. Each of these three demand scenarios is based on the Company's 2008/09 springboard (as described in Section III.C) plus incremental demand, as forecast for the period of the filing (2010/11 through 2014/15). The Company's traditional resource portfolio (as described below in Section IV.C) was then tested for adequacy to address the customer requirements under design weather conditions. The Company has assumed that, throughout the forecast period, there is no change in its current service obligation and that, as a result, it is responsible for planning for the capacity requirements for all firm customers¹.

The Company then ran these different demand scenarios in combination with three levels of penetration of incremental demand-side management ("DSM") measures: low case, base case, and high case. All three DSM penetration scenarios were SENDOUT[®] model runs in optimization mode alone to test the reduction in utilization of the Company's traditional resource portfolio due to different levels of DSM. The Company then utilized the resource mix mode of the SENDOUT[®] model to optimize its resource portfolio with both supply-side and demand-side resources. In its resource mix run, the Company evaluated the conversion of a portion of its Tennessee long-haul transportation to short-haul from the Marcellus Basin, as well as the optimal mix of DSM and two of its expiring transportation contracts. The Company's

¹ As noted in section III B above, this obligation excludes those firm transportation customers that are exempt from the Commission's mandatory capacity assignment rule. i.e. customers who had migrated to transportation service prior to the implementation of the mandatory capacity assignment rule or new customers who go direct to delivery only service.

expiring Niagara and Dawn supply transportation contracts were optimized side-by-side with its demand side management resource options.

In its Order No. 24,941 in Docket DG 06-105 dated February 13, 2009, the Commission required the Company to use as the basis of its demand-side assessment in this IRP filing, the information on the technical and economic potential of demand side resources contained in the report "Additional Opportunities for Energy Efficiency in New Hampshire" by GDS Associates (January 2009). A copy of the report is provided as Appendix C. The Company reviewed the details of this report as it prepared this filing. The Company concluded that the most realistic scenario presented in this report was the "Potentially Available Scenario" and chose to evaluate it as the upper limit constraint on reasonably available demand side management savings. Under this scenario, the report concludes that the potentially obtainable demand side management savings is approximately 10.7 percent of the residential fossil fuel consumption (See, Appendix C at Table 43, Summary of Residential Non-Electric Energy Efficiency Savings Potential, p. 66), 7.0 percent of commercial fossil fuel consumption (See, Appendix C Table 47, Summary of Commercial Non-Electric Energy Efficiency Savings Potential, p. 88), and 4.4 percent of industrial consumption (See, Appendix C Table 57, Summary of Industrial Non-Electric Energy Efficiency Savings Potential, p. 108). Because the Company's records combine the C&I classes, the Company calculated a weighted average of the two

Comparison of Base Case Design Year Customer Requirements By DSM Scenario

Chart IV-D-2
(Revised)

Base Case Demand - Design Year - No DSM															Annual Change From 2009/10	Peak Day Change From 2009/10
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day		
2009/10	1,477,244	2,159,674	2,432,101	2,080,163	1,820,662	1,046,434	518,986	381,410	370,032	369,547	430,634	823,461	13,910,348	138,401	-	-
2010/11	1,501,745	2,190,898	2,466,082	2,109,611	1,848,570	1,066,574	532,896	391,350	379,510	379,211	442,044	841,331	14,149,822	140,043	239,474	1,642
2011/12	1,538,332	2,236,141	2,514,796	2,239,699	1,889,648	1,097,679	556,341	409,603	397,369	397,306	462,149	869,770	14,608,833	142,301	698,485	3,900
2012/13	1,575,638	2,281,759	2,563,715	2,194,737	1,931,298	1,129,768	581,235	429,497	416,982	417,139	483,800	899,414	14,904,982	144,531	994,634	6,130
2013/14	1,610,788	2,324,883	2,610,004	2,235,114	1,970,606	1,159,904	604,427	447,888	435,072	435,444	503,885	927,170	15,265,185	146,653	1,354,837	8,252
2014/15	1,646,385	2,369,016	2,657,573	2,276,528	2,010,618	1,190,077	627,012	465,352	452,124	452,728	523,183	954,692	15,625,288	148,866	1,714,940	10,465

Base Case Demand - Design Year - Low Case DSM															Annual Change From 2009/10	Peak Day Change From 2009/10
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day		
2009/10	1,459,159	2,135,701	2,405,663	2,057,398	1,799,654	1,032,247	510,504	376,350	365,514	364,862	424,258	811,431	13,742,741	137,060	-	-
2010/11	1,474,618	2,154,939	2,426,426	2,075,463	1,817,058	1,045,293	520,172	383,760	372,732	372,184	432,481	823,286	13,898,412	138,032	155,671	972
2011/12	1,502,162	2,188,196	2,461,921	2,192,353	1,847,632	1,069,304	539,376	399,483	388,332	387,936	449,398	845,710	14,271,803	139,620	529,062	2,560
2012/13	1,530,426	2,221,828	2,497,621	2,137,823	1,878,778	1,094,300	560,029	416,847	405,686	405,427	467,861	869,338	14,485,964	141,179	743,223	4,119
2013/14	1,556,534	2,252,965	2,530,691	2,166,818	1,907,583	1,117,342	578,980	432,709	421,517	421,389	484,758	891,079	14,762,365	142,631	1,019,624	5,571
2014/15	1,583,088	2,285,112	2,565,041	2,196,849	1,937,091	1,140,421	597,323	447,643	436,310	436,331	500,868	912,586	15,038,663	144,174	1,295,922	7,114

Base Case Demand - Design Year - Base Case DSM															Annual Change From 2009/10	Peak Day Change From 2009/10
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day		
2009/10	1,454,501	2,129,902	2,399,404	2,051,952	1,794,408	1,028,316	507,594	374,123	363,344	362,662	421,785	807,860	13,695,851	136,767	-	-
2010/11	1,465,302	2,143,340	2,413,906	2,064,571	1,806,566	1,037,431	514,354	379,305	368,394	367,783	427,534	816,143	13,804,629	137,446	108,778	679
2011/12	1,488,188	2,170,797	2,443,142	2,175,379	1,831,893	1,057,512	530,649	392,800	381,824	381,335	441,978	834,996	14,130,493	138,741	434,642	1,974
2012/13	1,511,793	2,198,629	2,472,583	2,116,040	1,857,793	1,078,576	548,392	407,937	397,008	396,625	457,968	855,054	14,298,398	140,008	602,547	3,241
2013/14	1,533,243	2,223,967	2,499,393	2,139,588	1,881,351	1,097,688	564,434	421,570	410,670	410,387	472,392	873,224	14,527,907	141,166	832,056	4,399
2014/15	1,555,139	2,250,314	2,527,484	2,164,173	1,905,612	1,116,836	579,868	434,277	423,293	423,128	486,029	891,159	14,757,312	142,416	1,061,461	5,649

Base Case Demand - Design Year - High Case DSM (revised)															Annual Change From 2009/10	Peak Day Change From 2009/10
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day		
2009/10	1,454,501	2,129,902	2,399,404	2,051,952	1,794,408	1,028,316	507,594	374,123	363,344	362,662	421,785	807,860	13,695,851	136,767	-	-
2010/11	1,463,078	2,140,696	2,411,101	2,062,110	1,804,116	1,035,464	512,726	377,936	367,025	366,403	426,079	814,283	13,781,017	137,324	85,166	557
2011/12	1,483,741	2,165,509	2,437,531	2,170,269	1,826,994	1,053,576	527,392	390,062	379,087	378,576	439,067	831,274	14,083,078	138,496	387,227	1,729
2012/13	1,505,124	2,190,698	2,464,166	2,108,657	1,850,445	1,072,673	543,507	403,829	392,903	392,487	453,601	849,471	14,227,561	139,640	531,710	2,873
2013/14	1,524,350	2,213,392	2,488,171	2,129,744	1,871,553	1,089,817	557,921	416,093	405,196	404,869	466,570	865,780	14,433,456	140,676	737,605	3,909
2014/15	1,544,023	2,237,095	2,513,456	2,151,869	1,893,365	1,106,998	571,727	427,430	416,451	416,231	478,751	881,855	14,639,251	141,803	943,400	5,036

Chart IV-D-3
(Revised)

Base Case Demand - Design Year - Low Case DSM LESS No DSM														
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day
2009/10	-18,085	-23,973	-26,438	-22,765	-21,008	-14,187	-8,482	-5,060	-4,518	-4,685	-6,376	-12,030	-167,607	-1,341
2010/11	-27,127	-35,959	-39,656	-34,148	-31,512	-21,281	-12,724	-7,590	-6,778	-7,027	-9,563	-18,045	-251,410	-2,011
2011/12	-36,170	-47,945	-52,875	-47,346	-42,016	-28,375	-16,965	-10,120	-9,037	-9,370	-12,751	-24,060	-337,030	-2,681
2012/13	-45,212	-59,931	-66,094	-56,914	-52,520	-35,468	-21,206	-12,650	-11,296	-11,712	-15,939	-30,076	-419,018	-3,352
2013/14	-54,254	-71,918	-79,313	-68,296	-63,023	-42,562	-25,447	-15,179	-13,555	-14,055	-19,127	-36,091	-502,820	-4,022
2014/15	-63,297	-83,904	-92,532	-79,679	-73,527	-49,656	-29,689	-17,709	-15,814	-16,397	-22,315	-42,106	-586,625	-4,692

Base Case Demand - Design Year - Base Case DSM LESS No DSM														
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day
2009/10	-22,743	-29,772	-32,697	-28,211	-26,254	-18,118	-11,392	-7,287	-6,688	-6,885	-8,849	-15,601	-214,497	-1,634
2010/11	-36,443	-47,558	-52,176	-45,040	-42,004	-29,143	-18,542	-12,045	-11,116	-11,428	-14,510	-25,188	-345,193	-2,597
2011/12	-50,144	-65,344	-71,654	-64,320	-57,755	-40,167	-25,692	-16,803	-15,545	-15,971	-20,171	-34,774	-478,340	-3,560
2012/13	-63,845	-83,130	-91,132	-78,697	-73,505	-51,192	-32,843	-21,560	-19,974	-20,514	-25,832	-44,360	-606,584	-4,523
2013/14	-77,545	-100,916	-110,611	-95,526	-89,255	-62,216	-39,993	-26,318	-24,402	-25,057	-31,493	-53,946	-737,278	-5,487
2014/15	-91,246	-118,702	-130,089	-112,355	-105,006	-73,241	-47,144	-31,075	-28,831	-29,600	-37,154	-63,533	-867,976	-6,450

Base Case Demand - Design Year - High Case DSM (revised) LESS No DSM														
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day
2009/10	-22,743	-29,772	-32,697	-28,211	-26,254	-18,118	-11,392	-7,287	-6,688	-6,885	-8,849	-15,601	-214,497	-1,634
2010/11	-38,667	-50,202	-54,981	-47,501	-44,454	-31,110	-20,170	-13,414	-12,485	-12,808	-15,965	-27,048	-368,805	-2,719
2011/12	-54,591	-70,632	-77,265	-69,430	-62,654	-44,103	-28,949	-19,541	-18,282	-18,730	-23,082	-38,496	-525,755	-3,805
2012/13	-70,514	-91,061	-99,549	-86,080	-80,853	-57,095	-37,728	-25,668	-24,079	-24,652	-30,199	-49,943	-677,421	-4,891
2013/14	-86,438	-111,491	-121,833	-105,370	-99,053	-70,087	-46,506	-31,795	-29,876	-30,575	-37,315	-61,390	-831,729	-5,977
2014/15	-102,362	-131,921	-144,117	-124,659	-117,253	-83,079	-55,285	-37,922	-35,673	-36,497	-44,432	-72,837	-986,037	-7,063

Comparison of Base Case Normal Year Customer Requirements By DSM Scenario

Chart IV-D-4
(Revised)

Base Case Demand - Normal Year - No DSM															Annual	Peak Day
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day	Change From 2009/10	Change From 2009/10
2009/10	1,352,264	1,978,976	2,212,838	1,906,607	1,667,437	961,188	493,275	377,985	370,032	369,192	418,093	761,294	12,869,181	112,247	-	-
2010/11	1,375,552	2,008,471	2,244,772	1,934,393	1,693,874	980,458	506,833	387,852	379,510	378,838	429,319	778,498	13,098,370	113,684	229,189	1,437
2011/12	1,410,616	2,051,533	2,290,903	2,056,608	1,733,095	1,010,459	529,831	406,010	397,369	396,909	449,189	806,093	13,538,615	115,684	669,434	3,437
2012/13	1,446,474	2,095,082	2,337,368	2,015,450	1,772,987	1,041,502	554,306	425,817	416,982	416,720	470,616	834,932	13,828,236	117,669	959,055	5,422
2013/14	1,480,227	2,136,209	2,381,307	2,053,920	1,810,597	1,070,632	577,089	444,121	435,072	435,004	490,484	861,916	14,176,578	119,555	1,307,397	7,308
2014/15	1,514,321	2,178,193	2,426,325	2,093,276	1,848,779	1,099,712	599,236	461,490	452,124	452,265	509,551	888,606	14,523,878	121,513	1,654,697	9,266
Base Case Demand - Normal Year - Low Case DSM															Annual	Peak Day
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day	Change From 2009/10	Change From 2009/10
2009/10	1,335,229	1,956,586	2,188,232	1,885,424	1,647,695	947,800	484,959	373,125	365,514	364,524	412,067	749,847	12,711,002	111,090	-	-
2010/11	1,349,999	1,974,886	2,207,864	1,902,618	1,664,261	960,376	494,359	380,562	372,732	371,836	420,280	761,327	12,861,100	111,948	150,098	858
2011/12	1,376,545	2,006,752	2,241,692	2,012,527	1,693,611	983,683	513,199	396,290	388,332	387,572	437,137	783,198	13,220,538	113,369	509,536	2,279
2012/13	1,403,885	2,039,106	2,275,854	1,962,492	1,723,632	1,008,032	533,516	413,667	405,686	405,049	455,551	806,314	13,432,784	114,775	721,782	3,685
2013/14	1,429,120	2,069,038	2,307,490	1,990,371	1,751,371	1,030,469	552,141	429,541	421,517	420,999	472,406	827,574	13,702,037	116,083	991,035	4,993
2014/15	1,454,697	2,099,827	2,340,206	2,019,135	1,779,682	1,052,855	570,130	444,480	436,310	435,926	488,460	848,541	13,970,249	117,462	1,259,247	6,372
Base Case Demand - Normal Year - Base Case DSM															Annual	Peak Day
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day	Change From 2009/10	Change From 2009/10
2009/10	1,330,766	1,951,081	2,182,315	1,880,273	1,642,685	944,019	482,081	370,935	363,344	362,326	409,659	746,384	12,665,868	110,831	-	-
2010/11	1,341,074	1,963,877	2,196,028	1,892,317	1,654,241	952,813	488,603	376,181	368,394	367,441	415,464	754,402	12,770,835	111,430	104,967	599
2011/12	1,363,158	1,990,240	2,223,939	1,996,466	1,678,581	972,338	504,565	389,719	381,824	380,980	429,913	772,811	13,084,534	112,593	418,666	1,762
2012/13	1,386,036	2,017,089	2,252,183	1,941,890	1,703,591	992,906	522,004	404,906	397,008	396,260	445,920	792,464	13,252,257	113,740	586,389	2,909
2013/14	1,406,809	2,041,516	2,277,902	1,964,617	1,726,320	1,011,560	537,751	418,589	410,670	410,012	460,367	810,262	13,476,375	114,789	810,507	3,958
2014/15	1,427,923	2,066,801	2,304,699	1,988,231	1,749,621	1,030,164	552,862	431,338	423,293	422,742	474,013	827,766	13,699,453	115,909	1,033,585	5,078
Base Case Demand - Normal Year - High Case DSM (revised)															Annual	Peak Day
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Peak Day	Change From 2009/10	Change From 2009/10
2009/10	1,330,766	1,951,081	2,182,315	1,880,273	1,642,685	944,019	482,081	370,935	363,344	362,326	409,659	746,384	12,665,868	110,831	-	-
2010/11	1,338,920	1,961,337	2,193,343	1,889,960	1,651,874	950,898	486,986	374,825	367,025	366,063	414,032	752,580	12,747,843	111,320	81,975	489
2011/12	1,358,849	1,985,159	2,218,568	1,991,570	1,673,848	968,508	501,330	387,007	379,087	378,224	427,048	769,166	13,038,364	112,372	372,496	1,541
2012/13	1,379,573	2,009,469	2,244,127	1,934,818	1,696,492	987,160	517,152	400,837	392,903	392,125	441,622	786,996	13,183,274	113,409	517,406	2,578
2013/14	1,398,191	2,031,356	2,267,161	1,955,188	1,716,854	1,003,899	531,281	413,164	405,196	404,499	454,636	802,972	13,384,397	114,347	718,529	3,516
2014/15	1,417,150	2,054,101	2,291,273	1,976,445	1,737,789	1,020,588	544,775	424,557	416,451	415,850	466,850	818,653	13,584,482	115,357	918,614	4,526

Chart IV-D-5
(Revised)

Base Case Demand - Normal Year - Low Case DSM LESS No DSM														Peak Day
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	
2009/10	-17,035	-22,390	-24,606	-21,183	-19,742	-13,388	-8,316	-4,860	-4,518	-4,668	-6,026	-11,447	-158,179	-1,157
2010/11	-25,553	-33,585	-36,908	-31,775	-29,613	-20,082	-12,474	-7,290	-6,778	-7,002	-9,039	-17,171	-237,270	-1,736
2011/12	-34,071	-44,781	-49,211	-44,081	-39,484	-26,776	-16,632	-9,720	-9,037	-9,337	-12,052	-22,895	-318,077	-2,315
2012/13	-42,589	-55,976	-61,514	-52,958	-49,355	-33,470	-20,790	-12,150	-11,296	-11,671	-15,065	-28,618	-395,452	-2,894
2013/14	-51,107	-67,171	-73,817	-63,549	-59,226	-40,163	-24,948	-14,580	-13,555	-14,005	-18,078	-34,342	-474,541	-3,472
2014/15	-59,624	-78,366	-86,119	-74,141	-69,097	-46,857	-29,106	-17,010	-15,814	-16,339	-21,091	-40,065	-553,629	-4,051

Base Case Demand - Normal Year - Base Case DSM LESS No DSM														Peak Day
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	
2009/10	-21,498	-27,895	-30,523	-26,334	-24,752	-17,169	-11,194	-7,050	-6,688	-6,866	-8,434	-14,910	-203,313	-1,416
2010/11	-34,478	-44,594	-48,744	-42,076	-39,633	-27,645	-18,230	-11,671	-11,116	-11,397	-13,855	-24,096	-327,535	-2,254
2011/12	-47,458	-61,293	-66,964	-60,142	-54,514	-38,121	-25,266	-16,291	-15,545	-15,929	-19,276	-33,282	-454,081	-3,091
2012/13	-60,438	-77,993	-85,185	-73,560	-69,396	-48,596	-32,302	-20,911	-19,974	-20,460	-24,696	-42,468	-575,979	-3,929
2013/14	-73,418	-94,693	-103,405	-89,303	-84,277	-59,072	-39,338	-25,532	-24,402	-24,992	-30,117	-51,654	-700,203	-4,766
2014/15	-86,398	-111,392	-121,626	-105,045	-99,158	-69,548	-46,374	-30,152	-28,831	-29,523	-35,538	-60,840	-824,425	-5,604

Base Case Demand - Normal Year - High Case DSM (revised) LESS No DSM														Peak Day
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	
2009/10	-21,498	-27,895	-30,523	-26,334	-24,752	-17,169	-11,194	-7,050	-6,688	-6,866	-8,434	-14,910	-203,313	-1,416
2010/11	-36,632	-47,134	-51,429	-44,433	-42,000	-29,560	-19,847	-13,027	-12,485	-12,775	-15,287	-25,918	-350,527	-2,364
2011/12	-51,767	-66,374	-72,335	-65,038	-59,247	-41,951	-28,501	-19,003	-18,282	-18,685	-22,141	-36,927	-500,251	-3,312
2012/13	-66,901	-85,613	-93,241	-80,632	-76,495	-54,342	-37,154	-24,980	-24,079	-24,595	-28,994	-47,936	-644,962	-4,260
2013/14	-82,036	-104,853	-114,146	-98,732	-93,743	-66,733	-45,808	-30,957	-29,876	-30,505	-35,848	-58,944	-792,181	-5,208
2014/15	-97,171	-124,092	-135,052	-116,831	-110,990	-79,124	-54,461	-36,933	-35,673	-36,415	-42,701	-69,953	-939,396	-6,156

Base Case Design Year Change In Resource Utilization - High Case DSM (revised)

Chart IV-D-11
(Revised)

Change In Customer Requirements														Peak Day	Annual Change From 2009/10	Peak Day Change From 2009/10
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total			
2009/10	-22,743	-29,772	-32,697	-28,211	-26,254	-18,118	-11,392	-7,287	-6,688	-6,885	-8,849	-15,601	-214,497	-1,634	-	-
2010/11	-38,667	-50,202	-54,981	-47,501	-44,454	-31,110	-20,170	-13,414	-12,485	-12,808	-15,965	-27,048	-368,805	-2,719	-154,308	-1,085
2011/12	-54,591	-70,632	-77,265	-69,430	-62,654	-44,103	-28,949	-19,541	-18,282	-18,730	-23,082	-38,496	-525,755	-3,805	-311,258	-2,171
2012/13	-70,514	-91,061	-99,549	-86,080	-80,853	-57,095	-37,728	-25,668	-24,079	-24,652	-30,199	-49,943	-677,421	-4,891	-462,924	-3,257
2013/14	-86,438	-111,491	-121,833	-105,370	-99,053	-70,087	-46,506	-31,795	-29,876	-30,575	-37,315	-61,390	-831,729	-5,977	-617,232	-4,343
2014/15	-102,362	-131,921	-144,117	-124,659	-117,253	-83,079	-55,285	-37,922	-35,673	-36,497	-44,432	-72,837	-986,037	-7,063	-771,540	-5,429

Change In Pipeline Supplies														Peak Day	Annual Change From 2009/10	Peak Day Change From 2009/10
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total			
2009/10	-19,324	-15,809	-11,730	-14,287	-20,418	-18,119	-11,392	-7,287	-6,688	-6,885	-8,849	-15,602	-156,390	0	-	-
2010/11	-32,930	-25,248	-15,739	-61,887	-34,659	-30,942	-20,171	-13,415	-12,485	-12,808	-15,965	-27,048	-303,297	-2,719	-146,907	-2,719
2011/12	-46,537	-45,234	-50,562	-89,537	-55,669	-42,285	-28,949	-19,541	-18,281	-18,730	-23,082	-38,495	-476,902	-3,805	-320,512	-3,805
2012/13	-60,142	-59,855	-78,254	-96,898	-55,567	-53,695	-37,727	-25,668	-24,079	-24,652	-30,199	-49,942	-596,678	-4,891	-440,288	-4,891
2013/14	-73,747	-69,878	-105,540	-109,357	-69,725	-65,927	-46,506	-31,795	-29,876	-30,575	-37,315	-61,390	-731,631	-8,717	-575,241	-8,717
2014/15	-87,355	-84,893	-135,714	-120,845	-83,404	-78,160	-55,285	-37,922	-35,673	-36,497	-44,432	-72,838	-873,018	-10,912	-716,628	-10,912

Change In Underground Storage Supplies														Peak Day	Annual Change From 2009/10	Peak Day Change From 2009/10
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total			
2009/10	-3,418	-13,965	-16,197	-17,203	-5,836	0	0	0	0	0	0	0	-56,619	0	-	-
2010/11	-5,736	-24,954	-19,425	-5,431	-9,795	-169	0	0	0	0	0	0	-65,510	0	-8,891	0
2011/12	-8,054	-25,397	-8,397	1,799	-6,984	-1,818	0	0	0	0	0	0	-48,851	0	7,768	0
2012/13	-10,371	-31,206	-11,896	1,420	-25,286	-3,400	0	0	0	0	0	0	-80,739	0	-24,120	0
2013/14	-12,689	-41,613	-14,581	2,276	-29,328	-4,160	0	0	0	0	0	0	-100,095	0	-43,476	0
2014/15	-15,007	-47,028	-16,763	4,546	-32,153	-4,920	0	0	0	0	0	0	-111,325	0	-54,706	0

Change In Supplemental Supplies														Peak Day	Annual Change From 2009/10	Peak Day Change From 2009/10
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total			
2009/10	0	0	-4,770	3,277	0	0	0	0	0	0	0	0	-1,493	-1,634	-	-
2010/11	0	0	-19,818	19,818	0	0	0	0	0	0	0	0	0	0	1,493	1,634
2011/12	0	0	-18,306	18,306	0	0	0	0	0	0	0	0	0	0	1,493	1,634
2012/13	0	0	-9,399	9,399	0	0	0	0	0	0	0	0	0	0	1,493	1,634
2013/14	0	0	-1,712	1,712	0	0	0	0	0	0	0	0	0	2,740	1,493	4,374
2014/15	0	0	8,361	-8,361	-1,696	0	0	0	0	0	0	0	-1,696	3,849	-203	5,483

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Design Year 2010-11: High Case DSM (revised)
(MMBtu)

Appendix D
Page 22 of 87
(Revised)

REQUIREMENTS	11/2010	12/2010	01/2011	02/2011	03/2011	04/2011	05/2011	06/2011	07/2011	08/2011	09/2011	10/2011	Heating Season (Nov-Mar)	Non-Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout	1,463,078	2,140,696	2,411,101	2,062,110	1,804,116	1,035,464	512,726	377,936	367,025	366,403	426,079	814,283	9,881,101	3,899,916	13,781,017	137,324
Refill																
Underground Storage	79,208	0	0	0	0	417,453	525,795	483,144	288,612	6,500	0	0	79,208	1,721,504	1,800,712	0
LNG	2,845	2,940	63,273	25,151	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
Propane	0	0	73,549	19,909	0	0	11,516	7,677	0	0	0	0	93,458	19,193	112,651	5,607
Total Requirements	1,545,131	2,143,636	2,547,923	2,107,170	1,809,906	1,452,917	1,059,510	871,607	658,582	375,848	428,929	817,228	10,153,766	5,664,621	15,818,387	146,931
RESOURCES																
PNGTS	7,290	9,362	10,974	8,680	8,308	5,790	4,588	3,240	3,100	3,193	3,660	5,704	44,614	29,275	73,889	354
TGP																
AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dawn Supply	120,000	124,000	124,000	112,000	124,000	49,568	0	0	0	0	0	45,384	604,000	94,952	698,952	4,000
Niagara Supply	93,660	80,485	39,309	27,278	16,893	32,266	0	0	0	0	0	20,414	257,625	52,680	310,305	3,122
Dracut Baseload	0	768,102	768,103	693,771	0	0	0	0	0	0	0	0	2,229,976	0	2,229,976	24,778
Dracut Swing	657,333	46,086	9,831	39,263	936,243	744,698	400,311	242,332	0	360,265	419,569	739,836	1,688,756	2,907,011	4,595,767	9,831
Gulf Supply	640,732	654,322	637,751	559,413	669,476	617,745	630,676	612,657	649,592	6,500	0	0	3,161,694	2,517,170	5,678,864	21,596
Storage	20,426	455,399	658,590	576,646	46,256	0	0	0	0	0	0	0	1,757,317	0	1,757,317	28,115
Other Purchased Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMAC Liquid	2,845	2,940	63,273	25,151	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
LNG From Storage	2,845	2,940	69,801	25,151	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	103,677	20,330	124,007	10,528
Propane Vapor	0	0	92,742	19,909	0	0	0	0	0	0	0	0	112,651	0	112,651	35,000
Truck	0	0	73,549	19,909	0	0	11,516	7,677	0	0	0	0	93,458	19,193	112,651	5,607
Total Resources	1,545,131	2,143,636	2,547,923	2,107,171	1,809,906	1,452,917	1,059,509	871,606	658,582	375,848	428,929	817,228	10,153,767	5,664,619	15,818,386	146,931

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Design Year 2011-12: High Case DSM (revised)
(MMBtu)

Appendix D
Page 23 of 87
(Revised)

REQUIREMENTS		<u>11/2011</u>	<u>12/2011</u>	<u>01/2012</u>	<u>02/2012</u>	<u>03/2012</u>	<u>04/2012</u>	<u>05/2012</u>	<u>06/2012</u>	<u>07/2012</u>	<u>08/2012</u>	<u>09/2012</u>	<u>10/2012</u>	Heating Season (Nov-Mar)	Non- Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout		1,483,741	2,165,509	2,437,531	2,170,269	1,826,994	1,053,576	527,392	390,062	379,087	378,576	439,067	831,274	10,084,044	3,999,034	14,083,078	138,496
Refill	Underground Storage	80,714	0	0	0	0	478,951	525,795	489,383	497,643	286,162	0	0	80,714	2,277,934	2,358,648	0
	LNG	2,845	2,940	58,648	29,776	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
	Propane	0	0	87,868	5,589	0	0	11,516	7,677	0	0	0	0	<u>93,457</u>	<u>19,193</u>	<u>112,650</u>	<u>5,607</u>
Total Requirements		1,567,300	2,168,449	2,584,047	2,205,634	1,832,784	1,532,527	1,074,176	889,972	879,675	667,683	441,917	834,219	10,358,214	6,320,169	16,678,383	148,103
RESOURCES																	
PNGTS		7,290	9,362	10,974	8,990	8,308	5,790	4,588	3,240	3,100	3,193	3,660	5,704	44,924	29,275	74,199	354
TGP	AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dawn Supply	120,000	124,000	103,252	98,837	124,000	51,294	0	0	0	0	0	2,220	570,089	53,514	623,603	4,000
	Niagara Supply	93,660	29,881	41,796	38,371	27,678	32,949	0	0	0	0	0	0	231,386	32,949	264,335	3,122
	Dracut Baseload	0	768,103	768,103	718,548	0	0	0	0	0	0	0	0	2,254,754	0	2,254,754	24,776
	Dracut Swing	676,939	54,288	11,003	77,875	851,982	826,893	414,978	261,262	237,461	372,438	432,557	820,406	1,672,087	3,365,995	5,038,082	11,003
	Gulf Supply	640,596	606,309	479,592	477,423	669,476	612,752	630,676	612,093	633,225	286,162	0	0	2,873,386	2,774,908	5,648,294	21,596
	Storage	23,124	570,626	850,584	714,859	142,611	0	0	0	0	0	0	0	2,301,804	0	2,301,804	28,115
Other Purchased Resources		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate	Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DOMAC Liquid	2,845	2,940	58,648	29,776	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
LNG From Storage		2,845	2,940	65,176	29,776	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	103,677	20,330	124,007	10,528
Propane	Vapor	0	0	107,062	5,589	0	0	0	0	0	0	0	0	112,651	0	112,651	35,000
	Truck	<u>0</u>	<u>0</u>	<u>87,868</u>	<u>5,589</u>	<u>0</u>	<u>0</u>	<u>11,516</u>	<u>7,677</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>93,457</u>	<u>19,193</u>	<u>112,650</u>	<u>5,607</u>
Total Resources		1,567,299	2,168,449	2,584,048	2,205,633	1,832,785	1,532,528	1,074,176	889,972	879,676	667,683	441,917	834,220	10,358,214	6,320,172	16,678,386	148,103

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Design Year 2012-13: High Case DSM (revised)
(MMBtu)

Appendix D
Page 24 of 87
(Revised)

REQUIREMENTS	11/2012	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	Heating Season (Nov-Mar)	Non-Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout	1,505,124	2,190,698	2,464,166	2,108,657	1,850,445	1,072,673	543,507	403,829	392,903	392,487	453,601	849,471	10,119,090	4,108,471	14,227,561	139,640
Refill																
Underground Storage	82,580	0	0	0	0	487,411	525,795	508,834	497,643	140,395	0	0	82,580	2,160,078	2,242,658	0
LNG	2,845	2,940	62,595	25,829	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
Propane	0	0	93,458	0	0	0	11,516	7,677	0	0	0	0	93,458	19,193	112,651	5,607
Total Requirements	1,590,549	2,193,638	2,620,219	2,134,486	1,856,235	1,560,084	1,090,291	923,190	893,491	535,827	456,451	852,416	10,395,127	6,311,750	16,706,877	149,247
RESOURCES																
PNGTS	7,290	9,362	10,974	8,680	8,308	5,790	4,588	3,240	3,100	3,193	3,660	5,704	44,614	29,275	73,889	354
TGP																
AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dawn Supply	120,000	124,000	124,000	112,000	124,000	9,211	0	0	0	0	0	2,955	604,000	12,166	616,166	4,000
Niagara Supply	93,660	31,878	43,364	37,305	12,488	6,244	0	0	0	0	0	0	218,715	6,244	224,959	3,122
Dracut Baseload	0	768,102	768,103	693,770	0	0	0	0	0	0	0	0	2,229,976	0	2,229,976	24,777
Dracut Swing	697,654	62,495	13,177	87,469	1,374,171	1,012,652	535,975	397,739	386,858	386,349	447,091	837,868	2,234,965	4,004,532	6,239,497	12,148
Gulf Supply	640,428	611,346	488,583	458,689	265,485	523,268	525,795	508,834	497,643	140,395	0	0	2,464,531	2,195,935	4,660,466	21,596
Storage	25,827	580,574	834,172	684,915	63,053	69	0	0	0	0	0	0	2,188,541	69	2,188,610	28,115
Other Purchased Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMAC Liquid	2,845	2,940	62,595	25,829	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
LNG From Storage	2,845	2,940	69,123	25,829	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	103,677	20,330	124,007	10,528
Propane Vapor	0	0	112,651	0	0	0	0	0	0	0	0	0	112,651	0	112,651	35,000
Truck	0	0	93,458	0	0	0	11,516	7,677	0	0	0	0	93,458	19,193	112,651	5,607
Total Resources	1,590,549	2,193,637	2,620,220	2,134,486	1,856,235	1,560,084	1,090,292	923,190	893,491	535,827	456,451	852,417	10,395,127	6,311,752	16,706,879	149,247

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Design Year 2013-14: High Case DSM (revised)
(MMBtu)

Appendix D
Page 25 of 87
(Revised)

REQUIREMENTS	11/2013	12/2013	01/2014	02/2014	03/2014	04/2014	05/2014	06/2014	07/2014	08/2014	09/2014	10/2014	Heating Season (Nov-Mar)	Non-Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout	1,524,350	2,213,392	2,488,171	2,129,744	1,871,553	1,089,817	557,921	416,093	405,196	404,869	466,570	865,780	10,227,210	4,206,246	14,433,456	140,676
Refill																
Underground Storage	84,264	0	0	0	0	487,371	525,795	508,834	497,643	128,609	0	0	84,264	2,148,252	2,232,516	0
LNG	2,845	2,940	66,379	22,045	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
Propane	0	0	93,458	0	0	0	11,516	7,677	0	0	0	0	93,458	19,193	112,651	5,607
Total Requirements	1,611,459	2,216,332	2,648,008	2,151,789	1,877,343	1,577,188	1,104,705	935,454	905,784	536,423	469,420	868,725	10,504,931	6,397,699	16,902,630	150,283
RESOURCES																
PNGTS	7,290	9,362	10,974	8,680	8,308	5,790	4,588	3,240	3,100	3,193	3,860	5,704	44,614	29,275	73,889	354
TGP																
AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dawn Supply	120,000	124,000	124,000	112,000	60,149	10,513	0	0	0	0	0	3,616	540,149	14,129	554,278	4,000
Niagara Supply	9,366	71,806	43,708	41,518	12,488	6,244	0	0	0	0	0	0	178,886	6,244	185,130	3,122
Dracut Baseload	0	768,102	768,102	693,770	0	0	0	0	0	0	0	0	2,229,974	0	2,229,974	24,777
Dracut Swing	1,217,752	70,026	21,070	98,339	1,448,675	1,026,980	550,388	410,003	399,151	398,731	460,060	853,515	2,855,862	4,098,828	6,954,690	13,184
Gulf Supply	223,095	616,442	497,362	461,412	269,509	523,938	525,795	508,834	497,643	128,609	0	0	2,067,820	2,184,819	4,252,639	21,596
Storage	28,266	550,714	837,397	691,981	69,484	873	0	0	0	0	0	0	2,177,842	873	2,178,715	28,115
Other Purchased Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMAC Liquid	2,845	2,940	66,379	22,045	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
LNG From Storage	2,845	2,940	72,907	22,045	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	103,677	20,330	124,007	10,528
Propane Vapor	0	0	112,651	0	0	0	0	0	0	0	0	0	112,651	0	112,651	35,000
Truck	0	0	93,458	0	0	0	11,516	7,677	0	0	0	0	93,458	19,193	112,651	5,607
Total Resources	1,611,459	2,216,332	2,648,008	2,151,790	1,877,343	1,577,188	1,104,705	935,454	905,784	536,423	469,420	868,725	10,504,932	6,397,699	16,902,631	150,283

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Design Year 2014-15: High Case DSM (revised)
(MMBtu)

Appendix D
Page 26 of 87
(Revised)

REQUIREMENTS	11/2014	12/2014	01/2015	02/2015	03/2015	04/2015	05/2015	06/2015	07/2015	08/2015	09/2015	10/2015	Heating Season (Nov-Mar)	Non-Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout	1,544,023	2,237,095	2,513,456	2,151,869	1,893,365	1,106,998	571,727	427,430	416,451	416,231	478,751	881,855	10,339,808	4,299,443	14,639,251	141,803
Refill																
Underground Storage	86,051	0	0	0	0	486,701	525,795	508,834	497,643	153,426	0	0	86,051	2,172,399	2,258,450	0
LNG	2,845	2,940	70,739	17,685	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
Propane	0	0	93,458	0	0	0	11,516	7,677	0	0	0	0	93,458	19,193	112,651	5,607
Total Requirements	1,632,919	2,240,035	2,677,653	2,169,554	1,899,155	1,593,699	1,118,511	946,791	917,039	572,602	481,601	884,800	10,619,316	6,515,043	17,134,359	151,410
RESOURCES																
PNGTS	7,290	9,362	10,974	8,680	8,308	5,790	4,588	3,240	3,100	3,193	3,660	5,704	44,614	29,275	73,889	354
TGP																
AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dawn Supply	106,984	124,000	124,000	112,000	61,179	11,835	0	0	0	0	0	4,000	528,163	15,835	543,998	4,000
Niagara Supply	9,366	71,806	44,139	46,283	12,986	6,244	0	0	0	0	0	0	184,580	6,540	191,120	3,122
Dracut Baseload	0	768,103	768,102	693,770	0	0	0	0	0	0	0	0	2,229,975	0	2,229,975	24,778
Dracut Swing	1,242,723	78,722	29,513	112,479	1,458,059	1,040,805	564,194	421,340	410,406	410,093	472,241	868,909	2,921,496	4,187,988	7,109,484	14,310
Gulf Supply	230,016	621,649	506,106	486,524	274,103	524,452	525,795	508,834	497,643	153,426	0	0	2,098,398	2,210,150	4,308,548	21,596
Storage	30,849	560,513	840,705	694,447	75,789	1,723	0	0	0	0	0	0	2,202,303	1,723	2,204,026	28,115
Other Purchased Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMAC Liquid	2,845	2,940	70,739	17,685	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
LNG From Storage	2,845	2,940	77,267	17,685	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	103,677	20,330	124,007	10,528
Propane Vapor	0	0	112,651	0	0	0	0	0	0	0	0	0	112,651	0	112,651	35,000
Truck	0	0	93,458	0	0	0	11,516	7,677	0	0	0	0	93,458	19,193	112,651	5,607
Total Resources	1,632,918	2,240,035	2,677,654	2,169,553	1,899,154	1,593,699	1,118,511	946,791	917,039	572,602	481,601	884,799	10,619,314	6,515,042	17,134,356	151,410

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Normal Year 2010-11: High Case DSM (revised)
(MMBtu)

Appendix D
Page 46 of 87
(Revised)

REQUIREMENTS	11/2010	12/2010	01/2011	02/2011	03/2011	04/2011	05/2011	06/2011	07/2011	08/2011	09/2011	10/2011	Heating Season (Nov-Mar)	Non- Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout	1,338,920	1,961,337	2,193,343	1,889,960	1,651,874	950,898	486,986	374,825	367,025	366,063	414,032	752,580	9,035,434	3,712,409	12,747,843	111,320
Refill																
Underground Storage	78,020	0	0	0	0	434,192	525,795	260,888	288,349	0	0	0	78,020	1,509,224	1,587,244	0
LNG	5,915	8,575	39,126	20,899	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	80,305	24,008	104,313	4,000
Propane	0	0	12,395	24,597	0	0	11,516	7,677	0	0	0	0	36,892	19,193	56,185	0
Total Requirements	1,422,855	1,969,912	2,244,864	1,935,456	1,657,664	1,385,090	1,033,770	646,240	658,319	369,008	416,882	755,525	9,230,751	5,264,834	14,495,585	115,320
RESOURCES																
PNGTS	7,290	9,362	10,974	8,680	8,308	5,790	4,588	3,240	3,100	3,193	3,660	5,704	44,614	29,275	73,889	354
TGP																
AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dawn Supply	120,000	124,000	124,000	112,000	124,000	41,194	0	0	0	0	0	27,477	604,000	68,671	672,671	4,000
Niagara Supply	93,660	71,806	27,186	11,125	10,528	23,954	0	0	0	0	0	12,852	214,305	36,806	251,111	3,122
Dracut Baseload	0	768,103	768,103	693,770	0	0	0	0	0	0	0	0	2,229,976	0	2,229,976	24,778
Dracut Swing	549,235	0	0	0	819,132	694,936	374,571	0	0	359,925	407,522	703,602	1,368,367	2,540,556	3,908,923	0
Gulf Supply	640,840	629,295	488,733	534,688	669,476	616,366	630,676	629,623	649,329	0	0	0	2,963,032	2,525,994	5,489,026	21,596
Storage	0	350,196	697,105	484,201	17,489	0	0	0	0	0	0	0	1,548,991	0	1,548,991	28,115
Other Purchased Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMAC Liquid	5,915	8,575	39,126	20,899	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	80,305	24,008	104,313	4,000
LNG From Storage	5,915	8,575	45,654	20,899	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	83,983	20,330	104,313	4,000
Propane Vapor	0	0	31,588	24,597	0	0	0	0	0	0	0	0	56,185	0	56,185	25,355
Truck	0	0	12,395	24,597	0	0	11,516	7,677	0	0	0	0	36,892	19,193	56,185	0
Total Resources	1,422,855	1,969,912	2,244,864	1,935,456	1,657,663	1,385,090	1,033,769	646,240	658,319	369,008	416,882	755,525	9,230,750	5,264,833	14,495,583	115,320

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Normal Year 2011-12: High Case DSM (revised)
(MMBtu)

Appendix D
Page 47 of 87
(Revised)

REQUIREMENTS	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012	07/2012	08/2012	09/2012	10/2012	Heating Season (Nov-Mar)	Non-Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout	1,358,849	1,985,159	2,218,568	1,991,570	1,673,848	968,508	501,330	387,007	379,087	378,224	427,048	769,166	9,227,994	3,810,370	13,038,364	112,372
Refill Underground Storage	78,020	0	0	0	0	489,129	525,795	489,383	497,643	166,539	0	0	78,020	2,168,489	2,246,509	0
LNG	2,845	11,275	44,620	22,817	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	87,347	24,008	111,355	4,000
Propane	0	0	33,638	16,008	0	0	11,516	0	0	0	0	0	49,646	11,516	61,162	5,607
Total Requirements	1,439,714	1,996,434	2,296,826	2,030,395	1,679,638	1,457,637	1,048,114	879,240	879,675	547,708	429,898	772,111	9,443,007	6,014,383	15,457,390	121,979
RESOURCES																
PNGTS	7,290	9,362	10,974	8,990	8,308	5,790	4,588	3,240	3,100	3,193	3,660	5,704	44,924	29,275	74,199	354
TGP AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dawn Supply	120,000	124,000	89,429	91,958	124,000	42,137	0	0	0	0	0	0	549,387	42,137	591,524	4,000
Niagara Supply	93,660	12,344	28,279	16,969	24,976	25,877	0	0	0	0	0	0	176,228	25,877	202,105	3,122
Dracut Baseload	0	768,103	768,103	718,548	0	0	0	0	0	0	0	0	2,254,754	0	2,254,754	24,778
Dracut Swing	567,444	0	0	0	693,864	768,969	388,916	258,206	237,461	372,086	420,538	760,517	1,261,308	3,206,893	4,468,001	0
Gulf Supply	640,840	572,015	409,576	382,953	669,476	612,014	630,676	612,093	633,225	166,539	0	0	2,674,860	2,654,547	5,329,407	21,596
Storage	4,790	488,061	827,422	721,811	150,283	0	0	0	0	0	0	0	2,192,367	0	2,192,367	28,115
Other Purchased Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMAC Liquid	2,845	11,275	44,620	22,817	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	87,347	24,008	111,355	4,000
LNG From Storage	2,845	11,275	51,148	22,817	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	91,025	20,330	111,355	10,528
Propane Vapor	0	0	33,638	27,524	0	0	0	0	0	0	0	0	61,162	0	61,162	19,879
Truck	0	0	33,638	16,008	0	0	11,516	0	0	0	0	0	49,646	11,516	61,162	5,607
Total Resources	1,439,714	1,996,435	2,296,827	2,030,395	1,679,637	1,457,637	1,048,114	879,239	879,676	547,708	429,898	772,111	9,443,008	6,014,383	15,457,391	121,979

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Normal Year 2012-13: High Case DSM (revised)
(MMBtu)

Appendix D
Page 48 of 87
(Revised)

REQUIREMENTS	11/2012	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	Heating Season (Nov-Mar)	Non-Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout	1,379,573	2,009,469	2,244,127	1,934,818	1,696,492	987,160	517,152	400,837	392,903	392,125	441,622	786,996	9,264,479	3,918,795	13,183,274	113,409
Refill																
Underground Storage	78,020	0	0	0	0	475,096	525,795	508,834	495,548	43,013	0	0	78,020	2,048,286	2,126,306	0
LNG	2,845	13,981	49,764	21,073	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	93,453	24,008	117,461	4,000
Propane	0	0	25,706	28,037	0	0	11,516	2,094	0	0	0	0	53,743	13,610	67,353	5,607
Total Requirements	1,460,438	2,023,450	2,319,597	1,983,928	1,702,282	1,462,256	1,063,936	914,615	891,396	438,083	444,472	789,941	9,489,695	6,004,699	15,494,394	123,016
RESOURCES																
PNGTS	7,290	9,362	10,974	8,680	8,308	5,790	4,588	3,240	3,100	3,193	3,660	5,704	44,614	29,275	73,889	354
TGP																
AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dawn Supply	120,000	124,000	92,259	89,231	121,324	8,000	0	0	0	0	0	0	546,814	8,000	554,814	4,000
Niagara Supply	93,660	14,455	29,172	16,323	0	3,216	0	0	0	0	0	0	153,610	3,216	156,826	3,122
Dracut Baseload	0	768,103	768,103	693,770	0	0	0	0	0	0	0	0	2,229,976	0	2,229,976	24,778
Dracut Swing	586,436	0	0	0	1,292,878	946,892	509,618	394,747	386,858	385,987	435,112	778,347	1,879,314	3,837,561	5,716,875	0
Gulf Supply	640,840	579,036	418,598	374,229	235,923	495,507	525,795	508,834	495,548	43,013	0	0	2,248,626	2,068,697	4,317,323	21,596
Storage	6,521	500,532	831,809	701,080	35,118	0	0	0	0	0	0	0	2,075,060	0	2,075,060	28,115
Other Purchased Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMAC Liquid	2,845	13,981	49,764	21,073	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	93,453	24,008	117,461	4,000
LNG From Storage	2,845	13,981	56,292	21,073	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	97,131	20,330	117,461	10,528
Propane Vapor	0	0	36,921	30,432	0	0	0	0	0	0	0	0	67,353	0	67,353	20,916
Truck	0	0	25,706	28,037	0	0	11,516	2,094	0	0	0	0	53,743	13,610	67,353	5,607
Total Resources	1,460,437	2,023,450	2,319,598	1,983,928	1,702,281	1,462,255	1,063,935	914,615	891,396	438,083	444,472	789,941	9,489,694	6,004,697	15,494,391	123,016

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Normal Year 2013-14: High Case DSM (revised)
(MMBtu)

Appendix D
Page 49 of 87
(Revised)

REQUIREMENTS	11/2013	12/2013	01/2014	02/2014	03/2014	04/2014	05/2014	06/2014	07/2014	08/2014	09/2014	10/2014	Heating Season (Nov-Mar)	Non-Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout	1,398,191	2,031,356	2,267,161	1,955,188	1,716,854	1,003,899	531,281	413,164	405,196	404,499	454,636	802,972	9,368,750	4,015,647	13,384,397	114,347
Refill																
Underground Storage	78,020	0	0	0	0	488,325	525,795	508,834	497,643	46,757	0	0	78,020	2,067,354	2,145,374	0
LNG	2,845	16,873	52,633	21,859	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	100,000	24,008	124,008	4,000
Propane	0	0	41,663	33,056	0	0	0	0	0	0	0	0	74,719	0	74,719	5,607
Total Requirements	1,479,056	2,048,229	2,361,457	2,010,103	1,722,644	1,492,224	1,066,549	924,846	905,784	454,201	457,486	805,917	9,621,489	6,107,009	15,728,498	123,954
RESOURCES																
PNGTS	7,290	9,362	10,974	8,680	8,308	5,790	4,588	3,240	3,100	3,193	3,660	5,704	44,614	29,275	73,889	354
TGP																
AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dawn Supply	120,000	124,000	94,691	92,681	42,674	8,000	0	0	0	0	0	0	474,046	8,000	482,046	4,000
Niagara Supply	6,483	16,494	30,415	18,404	2,251	3,887	0	0	0	0	0	0	74,047	3,887	77,934	3,122
Dracut Baseload	0	768,103	768,103	693,770	0	0	0	0	0	0	0	0	2,229,976	0	2,229,976	24,778
Dracut Swing	1,151,985	0	0	0	1,385,020	961,548	523,749	407,074	399,151	398,361	448,126	794,323	2,537,005	3,932,332	6,469,337	0
Gulf Supply	179,527	584,757	426,528	385,369	238,836	510,149	525,795	508,834	497,643	46,757	0	0	1,815,017	2,089,178	3,904,195	21,596
Storage	8,081	511,768	835,626	701,370	36,825	0	0	0	0	0	0	0	2,093,670	0	2,093,670	28,115
Other Purchased Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMAC Liquid	2,845	16,873	52,633	21,859	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	100,000	24,008	124,008	4,000
LNG From Storage	2,845	16,873	59,161	21,859	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	103,678	20,330	124,008	10,528
Propane Vapor	0	0	41,663	33,056	0	0	0	0	0	0	0	0	74,719	0	74,719	21,854
Truck	0	0	41,663	33,056	0	0	0	0	0	0	0	0	74,719	0	74,719	5,607
Total Resources	1,479,056	2,048,230	2,361,457	2,010,104	1,722,644	1,492,224	1,066,550	924,848	905,784	454,201	457,486	805,917	9,621,491	6,107,010	15,728,501	123,954

COMPARISON OF RESOURCES AND REQUIREMENTS
Base Case Normal Year 2014-15: High Case DSM (revised)
(MMBtu)

Appendix D
Page 50 of 87
(Revised)

REQUIREMENTS	11/2014	12/2014	01/2015	02/2015	03/2015	04/2015	05/2015	06/2015	07/2015	08/2015	09/2015	10/2015	Heating Season (Nov-Mar)	Non-Heating Season (Apr-Oct)	TOTAL	Peak Day
Firm Sendout	1,417,150	2,054,101	2,291,273	1,976,445	1,737,789	1,020,588	544,775	424,557	416,451	415,850	466,850	818,653	9,476,758	4,107,724	13,584,482	115,357
Refill Underground Storage	78,020	0	0	0	0	486,197	525,795	508,834	494,790	51,281	0	0	78,020	2,066,897	2,144,917	0
LNG	2,845	20,775	47,158	23,431	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
Propane	0	0	55,239	35,865	0	0	0	0	0	0	0	0	91,104	0	91,104	0
Total Requirements	1,498,015	2,074,876	2,393,670	2,035,741	1,743,579	1,506,785	1,080,043	936,241	914,186	470,076	469,700	821,598	9,745,881	6,198,629	15,944,510	119,357
RESOURCES																
PNGTS	7,290	9,362	10,974	8,680	8,308	5,790	4,588	3,240	3,100	3,193	3,660	5,704	44,614	29,275	73,889	354
TGP AES-Londonderry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dawn Supply	99,349	124,000	106,475	101,065	46,040	8,000	0	0	0	0	0	364	476,929	8,364	485,293	4,000
Niagara Supply	7,280	19,066	32,073	20,719	8,930	4,577	0	0	0	0	0	0	88,068	4,577	92,645	3,122
Dracut Baseload	0	768,103	768,103	693,770	0	0	0	0	0	0	0	0	2,229,976	0	2,229,976	24,778
Dracut Swing	1,184,900	0	0	0	1,395,070	975,988	537,242	418,467	410,406	409,712	460,340	809,640	2,579,970	4,021,795	6,601,765	0
Gulf Supply	183,780	590,210	434,919	396,133	242,177	509,579	525,795	508,834	494,790	51,281	0	0	1,847,219	2,090,279	3,937,498	21,596
Storage	9,726	522,586	829,806	696,781	34,324	0	0	0	0	0	0	0	2,093,223	0	2,093,223	28,115
Other Purchased Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CityGate Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMAC Liquid	2,845	20,775	47,158	23,431	5,790	0	9,473	2,850	2,945	2,945	2,850	2,945	99,999	24,008	124,007	4,000
LNG From Storage	2,845	20,775	53,686	23,431	2,940	2,850	2,945	2,850	2,945	2,945	2,850	2,945	103,677	20,330	124,007	2,041
Propane Vapor	0	0	55,239	35,865	0	0	0	0	0	0	0	0	91,104	0	91,104	31,351
Truck	0	0	55,239	35,865	0	0	0	0	0	0	0	0	91,104	0	91,104	0
Total Resources	1,498,015	2,074,877	2,393,672	2,035,740	1,743,579	1,506,784	1,080,043	936,241	914,186	470,076	469,700	821,598	9,745,883	6,198,628	15,944,511	119,357