Attachment Staff 1-21 (Revised)
Page 1 of 4

	ORIGINAL
CFRACOLANDIAN	HH 9.116 Cost No. DG 13-257
ACCOUNTS NAMED OF PERSONS	Emilia 10 £ 5
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EnergyNorth Natural Gas, Inc. d/b/a Liberty Utilities

Peakshaving Storage Requirement Winter 2013 / 2014

Attachment A

NHPUC Storage Requirement For EnergyNorth Natural Gas, Inc.

Winter of 2013 / 2014

Coldest 7 Day Period – Manchester, NH							
	Heating Manchester, NH						
	Degre e	Avg. Temp.					
DATE	Days	(oF)					
Jan 9, 2004	65.5	-0.5					
Jan 10, 2004	61.5	3.5					
Jan 11, 2004	45.0	20.0					
Jan 12, 2004	38.5	26.5					
Jan 13, 2004	50,5	14.5					
Jan 14, 2004	66.5	-1.5					
Jan 15, 2004	68.5	-3.5					
	Total	Mean					
	396	8.4					

2013/14 EnergyNorth Na						
	Regression Coefficients					
with Growth Factors	,					
Firm Sales Base Load	46,876.4	MMBtu				
Firm Sales Heating Load	706,727.2	MMBtu				
Seven Day Sales Calculation	753,603.7	MMBtu				
Standby Base Load	0.0	MMBtu				
Standby Heat Load	0.0	MMBtu				
Seven Day FT Calculation	0.0	MMBtu				

2013/14 Seven-Day Requirements Calculations						
Total MMBtu	Available MMBtu	Supplemental				
Sales Sendout	Pipeline (*)	Requirements				

753,603.7	690,567.0	63,036.7	MMBtu
		672,939	Gal

(*) Pipeline total is less than 7 days of full MDQ due to weather conditions.

Summary of	MMBtu
Available Pipeline Supply	Units
Canadian	8,122.0
Gulf Coast Long Haul	21,596.0
Tennessee Short-Haul	50,000.0
Underground Storage	28,115.0
Citygate Service #1	0.0
Citygate Service #2	0.0
Winter Peaking Service (30 day service)	0.0

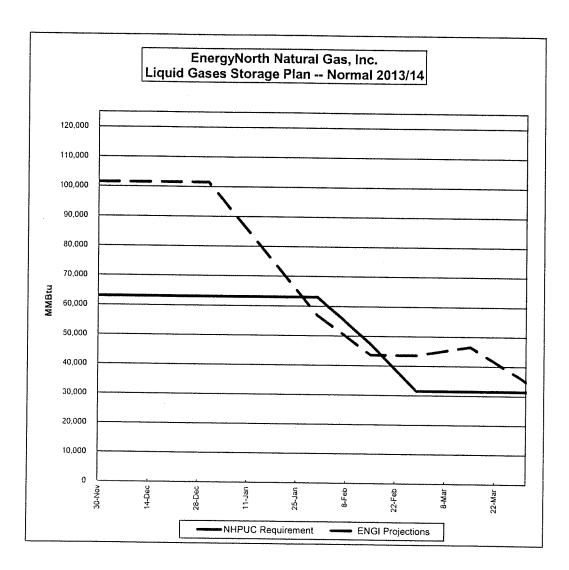
Total Pipeline	107.833.0
, star i pomio	107,833,0

EnergyNorth Natural Gas, Inc. Gas Supply Department

Liquid Storage Capacity in New Hampshire

Type Of Tanks Capacity (Gallons) Percentage (Gallons) Conversion Conversion Conversion Capacity (Gallons) Factor (Gallons to Met) (MMBlus) Capacity (Gallons) Factor (Gallons to Met) (MMBlus) Capacity (Capacity (C	FIXED STORAGE	1							
Type of Tanks Capacity Gallons Percentage Capacity Factor Gallons to Meh (Mehus) (Mehu	Location			Water	Workable	Workable	Conversion	Conversion	Workable
Nashua		Туре	of Tanks		Percentage	Capacity	Factor	Factor	
Amherst (*) LPG 3 61,400 85% 105,500 10,9529 1,0260 14,667 10,9529 1,0260 14,667 0 0 0 0 0 0 0 0 0 0 0 0 0				(Gallons)		(Gallons)	(Gallons to Mcf)		
Amherst (*) LPG 3 61,400 85% 105,500 10,9529 1,0260 14,667 10,9529 1,0260 14,667 0 0 0 0 0 0 0 0 0 0 0 0 0	Machua	LDC		00.000					
Amherst (*) LPG	Nasilua								9,555
LPG		LPG	3	61,400	85%	156,570	10.9529	1.0260	14,667
LPG	Amherst (*)	LPG	0	61,400	85%	0	10 9529	1.0260	0
Ling		LPG	0	30,000	85%	100	0.0000000000000000000000000000000000000		
LNG	Manchester	LPG	20	30,000	959/	F10.000	10.0500	4 0000	
Concord			4000000				VIII. S. C.		
LNG		2,10	'	33,000	90%	49,500	11.6686	1.0260	4,352
LNG	Concord		0		0%	0	10.9529	1.0260	0
Tilton		LNG	1 .	55,000	90%	49,500	The state of the s		
LNG	711								1,002
COTAL	lilton			A		51,000	10.9529	1.0260	4.777
TOTAL		LNG	1 .	55,000	90%	49,500	11.6686	1.0260	
TOTAL FIXED	TOTAL	LPG	29	964,200		819 570			76 772
TOTAL FIXED	TOTAL	LNG	3	165,000					
DTHER (FIXED OR MOVABLE STORAGE)	TOTAL FIXED		-						
Tank Type			The section of the se		Contract Con				03,030
Type of Tanks Capacity (Gallons)									
(Gallons) (Gallons) (Gallons) (Gallons to Mcf) (Mcf to MMBtu) (MMBtu's) Truckable (70% of 5 days trucking: 0 loads/day) Truckable (70% of 5 days trucking: 4 loads/day) OTAL OTHER OTAL LPG (OTAL LPG (OTAL LPG (OTAL LNG (OTAL LNG (OTAL LNG (OTAL LNG (OTAL STORAGE)))) OTAL STORAGE	Location						Conversion	Conversion	Workable
Truckable (70% of 5 days trucking: 0 loads/day) Truckable (70% of 5 days trucking: 4 loads/day) Truckable (70% of 5 days trucking: 4 loads/day) TOTAL OTHER (OTAL LPG (OTAL LNG (OTAL L	\	Type	of Tanks		Percentage		Factor	Factor	Capacity
(70% of 5 days trucking:				(Gallons)		(Gallons)	(Gallons to Mcf)	(Mcf to MMBtu)	(MMBtu's)
(70% of 5 days trucking:	Truckable	LPG							
Truckable (70% of 5 days trucking: 4 loads/day) OTAL OTHER OTAL LPG OTAL LNG OTAL LNG OTAL STORAGE		0				0	10.9529	1.0260	0
Truckable (70% of 5 days trucking; 4 loads/day) OTAL OTHER OTAL LPG OTAL LNG OTAL LNG OTAL STORAGE LNG 133,000 11,694 133,000 11,694 133,000 11,694 24,752									
(70% of 5 days trucking: 4 loads/day) OTAL OTHER OTAL LPG OTAL LNG OTAL STORAGE 133,000 11,694 133,000 11,694 24,752	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
(70% of 5 days trucking: 4 loads/day) OTAL OTHER 133,000 11,694 OTAL LNG 952,570 76,772 281,500 24,752	Truckable	LNG				133 000	11 6686	1 0260	11 604
OTAL OTHER 133,000 11,694 OTAL LPG 952,570 76,772 OTAL LNG 281,500 24,752	(70% of 5 days trucking;					100,000	11.0000	1.0200	11,094
OTAL LPG 952,570 76,772 OTAL LNG 281,500 24,752	4 loads/day)								
OTAL LPG 952,570 76,772 OTAL LNG 281,500 24,752	TOTAL OTHER				,	122,000			
OTAL LNG 281,500 24,752	TOTAL LPG								
OTAL STORAGE	TOTAL LNG								
	TOTAL STORAGE					1,101,070			24,752 101,524

^(*) Use of the Amherst facility is included in the LPG trucking capability.



EnergyNorth Natural Gas, Inc.

Liquid Gases Storage Plan - Normal 2013 / 2014

	NHPUC Requirement		ENGI projections (*)		
	MMBtu's	Gallons	MMBtu's	Gallons	
Nov-30-2013	63,037	672,939	101,524	1.083.804	
Dec-31-2013	63,037	672,939	101,524	1.083.804	
Jan-31-2014	63,037	672,939	56,824	606.616	
Feb-15-2014	47,278	504,704	43,624	465.701	
Feb-28-2014	31,518	336,469	43,624	465.701	
Mar-15-2014	31,518	336,469	46,524	496.660	
Mar-31-2014	31,518	336,469	34,830	371,818	

^(*) Includes propane trucking Jan-Mar. Includes LNG trucking Nov-Mar.