

Liberty Utilities (EnergyNorth Natural Gas) Corp.**Off Peak 2016 Summer Cost of Gas Filing****Table of Contents**

Tab	Title	Description
Summary	Summary	Summary
1	Schedule 1	Summary of Supply and Demand Forecast
2	Schedule 2	Contracts Ranked on a per Unit Cost Basis
3	Schedule 3	COG (Over)/Under Cumulative Recovery Balances and Interest Calculation
4	Schedule 4	Adjustments to Gas Costs
5	Schedule 5A Schedule 5B Schedule 5C	Demand Costs Demand Volumes Demand Rates
6	Schedule 6 Attachment	Supply and Commodity Costs, Volumes and Rates Pipeline Tariff Sheets
7	Schedule 7	NYMEX Futures @ Henry Hub and Hedged Contracts
8	Schedule 8, Page 1 Schedule 8, Page 2 Schedule 8, Page 3 Schedule 8, Page 4 Schedule 8, Page 5	Annual Bill Comparisons, May 15 - Oct 15 vs May 16 - Oct 16 - Residential Heating Rate R-3 Annual Bill Comparisons, May 15 - Oct 15 vs May 16 - Oct 16 - Commercial Rate G-41 Annual Bill Comparisons, May 15 - Oct 15 vs May 16 - Oct 16 - Commercial Rate G-42 Annual Bill Comparisons, May 15 - Oct 15 vs May 16 - Oct 16 - Commercial Rate G-52 Residential Heating
9	Schedule 9	Variance Analysis of the Components of the Summer 2015 Actual Results vs Proposed Summer 2016 Cost of Gas Rate
10	Schedule 10A Pages 1-2 Schedule 10A Page 3 Schedule 10B	Capacity Assignment Calculations 2015-2016 Derivation of Class Assignments and Weightings Correction Factor Calculation Off Peak 2016 Summer Cost of Gas Filing
11	Schedule 11A Schedule 11B Schedule 11C	Normal and Design Year Volumes Normal Year Normal and Design Year Volumes Design Year Capacity Utilization
12	Schedule 12, Page 1 Schedule 12, Page 2	Transportation Available for Pipeline Supply and Storage Agreements for Gas Supply and Transportation
13	Schedule 13	Storage Inventory

4 Summary

5				OP 16
6			Reference	May - Oct
7	(a)		(b)	(c)
8				
9	Anticipated Direct Cost of Gas			
10	Purchased Gas:			
11	Demand Costs:	Sch. 5A, col (j), ln 43	\$	4,602,902
12	Supply Costs	Sch. 6, col (i), ln 44		2,086,877
13				
14	Storage Gas:			
15	Demand, Capacity:	Sch. 5A, col (j), ln 58	\$	-
16	Commodity Costs:	Sch. 6, col (i), ln 47		240,661
17				
18	Produced Gas:	Sch. 6, col (i), ln 53	\$	25,890
19				
20	Hedge Contract (Savings)/Loss	Sch. 7, col (i), ln 32	\$	-
21				
22				
23	Total Unadjusted Cost of Gas		<u>\$</u>	<u>6,956,330</u>
24				
25	Adjustments			
26				
27	Prior Period (Over)/Under Recovery	Sch. 3, col (c) ln 26	\$	963,754
28	Interest 05/01/15 - 10/31/16	Sch. 3, col (q) ln 191		34,202
29	Prior Period Adjustments	Sch. 4, ln 26 col (b)		-
30	Refunds from Suppliers	Sch. 4, ln 26 col (c)		-
31	Broker Revenue	Sch. 4, ln 26 col (d)		-
32	Fuel Financing	Sch. 4, ln 26 col (e)		-
33	Transportation CGA Revenues	Sch. 4, ln 26 col (f)		-
34	Interruptible Sales Margin	Sch. 4, ln 26 col (g)		-
35	Capacity Release and Off System Sales Margins	Sch. 4, ln 26 col (h) + col (i)		-
36	Hedging Costs	Sch. 4, ln 26 col (j)		-
37	FPO Premium - Collection			-
38	Fixed Price Option Administrative Costs	Sch. 4, ln 26 col (k)		-
39				
40	Total Adjustments		<u>\$</u>	<u>997,956</u>
41				
42	Total Anticipated Direct Costs	ln 23 + 40	<u>\$</u>	<u>7,954,286</u>
43				
44	Anticipated Indirect Cost of Gas			
45	Working Capital			
46	Total Unadjusted Anticipated Cost of Gas	Ln 23	\$	6,956,330
47	Lead Lag Days / 365	DG 10-017, 14.27 / 365		0.0391
48	Prime Rate			3.50%
49	Working Capital Percentage	ln 47 * ln 48		0.137%
50	Working Capital	ln 46 * ln 49		9,521
51	Plus: Working Capital Reconciliation	Sch. 3, col (c), ln 98		14,110
52				
53	Total Working Capital Allowance	ln 50 + 51	<u>\$</u>	<u>23,631</u>
54				
55	Bad Debt			
56	Total Unadjusted Anticipated Cost of Gas	ln 23	\$	6,956,330
57	Less Refunds	ln 30		-
58	Plus Working Capital	ln 53		23,631
59	Plus Prior Period (Over) Under Recovery	ln 27		963,754
60	Subtotal		\$	7,943,715
61	Bad Debt Percentage	per GTC 16(f), docket 14-220 Sch 6 Pg 3		4.27%
62				
63	Bad Debt Allowance	ln 60 * ln 61	\$	339,197
64	Prior Period Bad Debt Allowance	Sch. 3, col (c), ln 161		(86,856)
65				
66	Total Bad Debt Allowance	ln 63 + 64	<u>\$</u>	<u>252,340</u>
67				
68	Production and Storage Capacity	per GTC16(f)	<u>\$</u>	<u>-</u>
69				
70	Miscellaneous Overhead	per GTC 16(f)	\$	13,170
71	Sales Volume	Sch. 10B, ln 23/1000		20,074
72	Divided by Total Sales	Sch. 10B, ln 23/1000		99,259
73	Ratio			20.22%
74				
75	Miscellaneous Overhead	ln 70 * 73	<u>\$</u>	<u>2,663</u>
76				
77	Total Anticipated Indirect Cost of Gas	ln 53 + 66 + 68 + 75	<u>\$</u>	<u>278,635</u>
78				
79	Total Cost of Gas	ln 42 + 77	<u>\$</u>	<u>8,232,921</u>
80				
81	Projected Forecast Sales (Therms)	Sch. 3, col (q), ln 52		<u>19,992,221</u>