



**CONFIDENTIAL  
MATERIAL  
IN COMM FILE**

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July 29, 2019

**Via ERF and US Mail**

Debra A. Howland  
Executive Director  
New Hampshire Public Utilities Commission  
21 S. Fruit Street, Suite 10  
Concord, NH 03301-2429

**RE: DG 18-137; Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities  
2018–2019 Winter Period Cost of Gas – Reconciliation**

Dear Ms. Howland:

On behalf of Liberty Utilities (EnergyNorth Natural Gas) Corp. (the "Company") and in accordance with New Hampshire Public Utilities Commission (the "Commission") Order No. 26,188 (November 01, 2018) in Docket No. DG 18-137, I enclose for filing one redacted and one confidential copy of the 2018–2019 Winter Period Cost of Gas reconciliation.

Please note this report has been filed via the Commission's Electronic Report Filing System.

Thank you for your attention to this matter. Please do not hesitate to call if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "C. McNamara", enclosed in a simple black oval.

Catherine A. McNamara

Enclosures

2330

**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**WINTER 2018-2019 COST OF GAS RESULTS**  
**DG 18-137**

**2330 Cost of Gas Reconciliation Report**  
**For the six months ended April 30, 2019 peak season**

	<u>Original Filing 1/</u>	<u>Actual</u>	<u>Difference</u>
<b>Peak Gas cost Account 1920-1740</b>			
Balance 05/01/18 - (Over) / Under	\$2,599,354	\$2,599,354	\$0
Net Peak Gas Costs 5/1/18 - 10/31/18	\$1,208,616	(1,030,254)	(2,238,870)
Fuel Financing 5/1/18 - 10/31/18	-	-	-
Prior Period Adjustment 5/1/18-10/31/18	-	43,205	43,205
Broker Revenue 5/1/18 - 10/31/18	-	-	-
Bad Debt Adjustment 5/1/18 - 10/31/18	-	-	-
IT Sales Margins 5/1/18 - 10/31/18	-	-	-
Off System Sales Margin 5/1/18 - 10/31/18	-	-	-
Capacity Release 5/1/18 - 10/31/18	-	-	-
Interest 5/1/18 - 10/31/18	42,420	35,791	(6,629)
Sum 5/1/18 - 10/31/18 Net Costs	\$1,251,036	(\$951,258)	(\$2,202,294)
Beginning Balance 10/31/18 (Over)/Under	3,850,390	1,648,096	(\$2,202,294)
Interest 11/1/18 - 4/30/19	20,776	(33,686)	(54,462)
Refund from Suppliers 11/1/18 - 4/30/19	-	-	-
Interruptible and 280-Day Sales Margins 11/1/18 - 4/30/19	-	-	-
Hedging costs	-	-	-
Off System Sales Margin 11/1/18 - 4/30/19	-	-	-
Capacity Release Credits 11/1/18 - 4/30/19	(1,877,737)	(1,875,483)	2,254
Fixed Price Option Admin Costs	45,000	-	(45,000)
Broker Revenues 11/1/18 - 4/30/19	(497,759)	(1,248,148)	(750,389)
Production & Storage	1,980,428	1,980,428	0
Misc. Overhead	10,681	10,681	0
Bad Debt Adjustment %	-	-	-
Transportation Cost of Gas Revenue	(26,381)	(81,810)	(55,429)
Total Adjustment to Costs	2,296,782	(\$1,248,017)	(\$3,544,799)
Gas Costs 11/1/18 - 4/30/19	\$57,674,954	58,893,254	\$1,218,300
Total Gas Costs and Adjustments 11/18 - 04/19	\$59,971,736	\$57,645,236	(\$2,326,500)
Gas Cost Billed	(\$63,822,126)	(57,381,122)	\$6,441,004
Total (Over) / Under 04/30/19	\$0	\$1,912,210	\$1,912,210

**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**WINTER 2018-2019 COST OF GAS RESULTS**  
**DG 18-137**

**2330 Cost of Gas Reconciliation Report**  
**For the six months ended April 30, 2019 peak season**

	<u>Original Filing 1/</u>	<u>Actual</u>	<u>Difference</u>
<b><u>Bad Debts Accounts 1920-1743</u></b>			
Beginning Balance	(\$144,328)	(\$144,328)	\$0
BD Net Costs 5/1/18 - 10/31/18	(28,280)	(9,896)	18,384
Interest 5/1/18 - 10/31/18	(3,163)	(3,197)	(34)
Beginning Balance 10/31/18 (Over)/Under	(\$175,771)	(\$157,421)	\$18,350
Bad Debt Costs 11/1/18 - 4/30/19	1,107,167	973,916	(133,251)
Bad Debt COG Billed	(931,396)	(1,214,549)	(283,153)
Adjustment	-	-	-
Interest	-	(4,465)	(4,465)
Total (Over) / Under 04/30/19	\$0	(\$402,518)	(\$402,518)
<b><u>Working Capital Account 1163-1422</u></b>			
Beginning Balance	\$4,305	\$4,305	(\$0)
WC Net Costs 5/1/18 - 10/31/18	1,980	(6,868)	(8,848)
Interest 5/1/18 - 10/31/18	4	(37)	(41)
Beginning Balance 10/31/18 (Over)/Under	\$6,289	(\$2,600)	(\$8,889)
Working Capital Costs 11/1/18 - 4/30/19	117,991	108,881	(9,110)
Working Capital CGA Billed	(124,280)	(148,359)	(24,079)
Adjustment	-	0	0
Interest	-	(199)	(199)
Total (Over) / Under 04/30/19	\$0	(\$42,277)	(\$42,277)
<b>Total 1920-1740, 1920-1743, 1163-1422</b>	<b>\$0</b>	<b>\$1,467,415</b>	<b>\$1,467,415</b>

1/ As filed 09-04-18 in the Winter portion of the 2018-2019 Cost of Gas DG 18-137.

**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**WINTER 2018-2019 COST OF GAS RESULTS**  
**DG 18-137**  
**SUMMARY OF DEMAND CHARGES FOR PERIOD**

Summary Page 3

REDACTED

	<u>Filing</u>	<u>Actual</u>	<u>Actual</u>	<u>Actual</u>	<u>Difference</u>
	<u>(a)</u>	<u>May 18 - Oct 18</u>	<u>Nov 18 - Apr 19</u>	<u>Total</u>	<u>(e)=(d)-(a)</u>
		<u>(b)</u>	<u>(c)</u>	<u>Peak Demand</u>	
				<u>(d)=(b)+(c)</u>	
<b><u>Supplies:</u></b>					
Union Gas					
ICE					
Subtotal Supply Demand Charges	\$0	\$0	\$0	\$0	\$0
<b><u>Pipelines:</u></b>					
Iroquois Gas Trans	\$135,972	\$142,423	\$ 138,360	\$280,783	\$144,811
TGP 95346 FTA	171,766	171,766	211,827	\$383,592	\$211,826
TGP FTA Z5-Z6 2302	134,063	0	156,402	156,402	\$22,339
TGP FTA Z0 - Z6 8587	2,966,886	0	3,067,971	3,067,971	\$101,085
TGP Dracut FTA Z6 - Z6 42076	569,436	569,436	565,402	1,134,838	\$565,402
TGP (Concord Lateral) Z6-Z6	2,194,488	396,237	2,198,572	2,594,809	\$400,321
Portland Natural Gas Pipeline	353,765	109,580	363,218	472,798	\$119,033
ANE (Union gas and TransCanada)	589,581	0	19,466	19,466	(\$570,115)
TGP FTA 632	1,492,569	0	893,435	893,435	(\$599,134)
TGP FTA 11234	860,531	0	552,375	552,375	(\$308,156)
TGP 523	0	391,502	381,530		
TGP 95346	0				
TGP 2694	0	0			
Emera Union	0	0	12,338	12,338	\$12,338
National Fuel	269,829	0	387,687	387,687	\$117,858
Subtotal Pipeline Demand Charges	\$9,738,886	\$1,780,943	\$8,948,584	\$9,956,495	\$217,609
<b><u>Peaking Supply</u></b>					
Emera					
TransCanada					
ENGIE [1]					
Repsol					
JP Morgan					
Subtotal Peaking Supply	\$4,968,750	\$0	\$0	\$0	(\$4,968,750)
<b><u>Propane</u></b>					
Energy North Propane	\$0	\$0	\$0	\$0	\$0
<b><u>Storage:</u></b>					
Demand & Capacity Charges	\$1,407,802	\$0	\$267,505	\$267,505	(\$1,140,297)
<b><u>Other:</u></b>					
Capacity Managed	(\$4,884,492)	\$0	(\$1,875,483)	(\$1,875,483)	\$3,009,009
Pipeline Refunds	\$0	\$0	\$0	\$0	\$0
<b>Total Demand Charges (Forward to Page 4)</b>	<b>\$11,230,946</b>	<b>\$1,780,943</b>	<b>\$7,340,607</b>	<b>\$8,348,517</b>	<b>(\$2,882,429)</b>

[1] Due to the recent purchase of ENGIE by Constellation some demand charges may be included under the commodity tabs. The total costs are correct and tie to the Company's books.

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
WINTER 2018-2019 COST OF GAS RESULTS  
DG 18-137

Summary Page 4

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SUMMARY OF COMMODITY COSTS FOR PERIOD

	<u>Filing</u>	<u>Average Cost per Therm</u>	<u>Actual</u>	<u>Average Cost per Therm</u>	<u>Difference</u>	
<b>Demand Charges (Brought from Page 3):</b>	\$11,230,946		\$8,348,517		(\$2,882,429)	
<b><u>TGP Gulf Commodity</u></b>						
Therms						
Cost						
<b><u>Dracut Commodity</u></b>						
Therms						
Cost						
<b><u>PNGTS Commodity</u></b>						
Therms						
Cost						
<b><u>Dawn Supply</u></b>						
Therms						
Cost						
<b><u>ENGIE COMBO</u></b>						
Therms						
Cost						
<b><u>TGP/Niagara/Union Commodity</u></b>						
Therms						
Cost						
<b><u>City Gate Delivered Supply</u></b>						
Therms						
Cost						
<b><u>DOMAC</u></b>						
Therms						
Cost						
<b><u>Storage Gas - Commodity Injected</u></b>						
Therms						
Cost						
<b><u>Propane P/S Plant Commodity</u></b>						
Therms						
Cost						
<b><u>Propane Off System Sales</u></b>						
Therms						
Cost						
<b><u>LNG P/S Plant &amp; Commodity</u></b>						
Therms						
Cost						
<b><u>Hedging (Gains) Losses</u></b>						
<b><u>Other- Boil Off, LNG, LPG, Berlin OBA</u></b>						
Therms						
Cost						
Other Costs						
Subtotal:						
Volumes (net of fuel retention)	87,958,623		50,085,970		(37,872,653)	
Cost	\$ 49,116,218	0.5584	\$ 16,682,054	0.3331	\$ (32,434,166)	(0.2253)
Total Demand and Commodity Costs	\$ 60,347,164		\$ 25,030,571		\$ (35,316,595)	
Demand (therms):	87,958,623		50,085,970		(37,872,653)	
Firm Gas Sales	88,164,115		88,164,115		-	
Lost Gas (Unaccounted For)	3,841,683		2,187,556		(1,654,127)	
Unbilled Therms	(4,300,599)		(40,519,125)		(36,218,526)	
Fuel Retention	-		-		-	
Company Use	253,424		253,424		-	
Total Demand	87,958,623		50,085,970		(37,872,653)	

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**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**WINTER 2018-2019 COST OF GAS RESULTS**  
**DG 18-137**

**REDACTED**

<u>Weather Variance - Volume Impact</u>	(A) Actual Volume	(B) Normal Volume	(C) Actual Rate	(A-B)*C Difference
TGP Gulf				
Dracut				
PNGTS				
TGP/Niagara/Union Commodity				
City Gate Delivered Supply				
DOMAC				
Storage Gas - Commodity Injected				
Propane P/S Plant Commodity				
Other				
LNG P/S Plant & Commodity				
Total Volume Weather Variance	50,085,970	91,818,395		\$ (14,172,441)
	(A) Forecast Volume	(B) Actual Volume	(C) Forecast Rate	(B-A)*C Difference
<u>Demand Variance - Commodity Costs</u>				
TGP Gulf				
Dawn Supply				
ENGIE COMBO				
TGP/Niagara/Union Commodity				
PNGTS Commodity				
City Gate Delivered Supply				
Dracut				
Storage Gas - Commodity Injected				
Propane P/S Plant Commodity				
LNG P/S Plant & Commodity				
Other				
Total Demand Variance (Less: Fuel Retention)	87,958,623	50,085,970		\$ (32,695,941)
<b>Demand Variance Net of Weather Variance</b>				<b>(18,523,501)</b>
	(A) Actual Volume	(B) Forecast Rate	(C) Actual Rate	(C-B)*A Difference
<u>Rate Variance - Commodity Costs</u>				
TGP Gulf				
Dawn Supply				
TGP/Niagara/Union Commodity				
ENGIE COMBO				
PNGTS				
Dracut				
City Gate Delivered Supply				
Storage Gas - Commodity Injected				
Propane P/S Plant Commodity				
LNG P/S Plant & Commodity				
Other				
Total Commodity Cost Rate Variance	50,085,970			\$ 122,450
Demand Charge Variance (from page 3)				(2,882,429)
Other Rate Variance (from page 4)				
Hedging (Gains)/Losses				0
Cashout, Broker Penalty, Canadian Managed, Prior Period Adjustments				0
Total Rate Variance				\$ (2,759,979)
Due to Weather Variance				(14,172,441)
Due to Demand Variance (from above)				<u>(18,523,501)</u>
Total Gas Cost Variance				<u>\$ (35,455,920)</u>

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**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**WINTER 2018-2019 COST OF GAS RESULTS**  
**DG 18-137**

Summary Page 6

	<u>FILING</u>	<u>ACTUAL</u>
Cost of Propane	\$ 1,617,071	\$ 62,510
Cost of LNG	1,055,140	-
Total Costs	<u>2,672,211</u>	<u>62,510</u>
Percentage of Supplies Used For Pressure Support Purposes	8.7%	8.7%
Cost of Supplies Used For Pressure Support Purposes	<u>232,482</u>	<u>5,438</u>
Firm Therms Sold	86,628,921	88,164,115
Firm Therms Transported	<u>50,744,418</u>	<u>46,536,160</u>
Total Therms	137,373,339	134,700,275
Actual Liquid Cost/Therm	0.0017	0.0000
Firm Therms Transported	<u>50,744,418</u>	<u>46,536,160</u>
Liquid Costs Allocated to Transported Therms	85,877	1,879
Prior (Over) or under Collection	<u>(59,496)</u>	<u>(59,496)</u>
Total	<u>26,381</u>	<u>(57,617)</u>
Costs Recovered:		
Therms Transported	50,744,418	46,536,160
Recovery Rate	<u>0.0005</u>	<u>0.0005</u>
Costs Recovered	<u>26,381</u>	<u>24,193</u>
(Over) / Under Collection For Period	(0)	(81,810)

**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**NOVEMBER 2018 THROUGH APRIL 2019**  
**PEAK DEMAND AND COMMODITY**  
**SCHEDULE 1**  
**ACCOUNT 1920-1740**

FOR THE MONTH OF: DAYS IN MONTH	Nov-18 30	Dec-18 31	Jan-19 31	Feb-19 28	Mar-19 31	Apr-19 30	May-19 31	Total
1 BEGINNING BALANCE	\$ 1,648,096	\$ (1,986,054)	\$ (1,659,721)	\$ 422,381	\$ 3,741,867	\$ 3,478,491	\$ 1,912,210	\$ 1,648,096
2								
3 Add: Actual Costs	8,276,209	10,987,035	17,421,026	11,096,148	7,597,828	3,433,197		58,811,443
4								
5 Add: FPO Admin Costs	-	-	-	-	-	-		-
6 Add: Prior Period Adjustment	-	-	-	-	-	-		-
7 Add: MISC OH	1,780	1,780	1,780	1,780	1,780	1,780		10,681
8 Add: Production and Storage	330,071	330,071	330,071	330,071	330,071	330,071		1,980,428
9 Add: Fuel Financing	-	-	-	-	-	-		-
10 Reverse Fuel Finance Estimate	-	-	-	-	-	-		-
11 Add Adjustment for Bad Debt %	-	-	-	-	-	-		-
12								
13 Less: CUSTOMER BILLINGS	(2,709,524)	(10,417,009)	(12,463,903)	(11,651,821)	(10,917,404)	(6,766,771)	-	(54,926,432)
14 Estimated Net Unbilled	(9,257,888)	(89,915)	(2,834,371)	4,318,619	3,361,866	2,046,999		(2,454,690)
15 Sub-Total Accrued Customer Billings	(11,967,413)	(10,506,924)	(15,298,274)	(7,333,201)	(7,555,538)	(4,719,772)	-	(57,381,122)
16								
17 Less: REFUND	-	-	-	-	-	-		-
18								
19 Less: Broker Revenues	40,505	(149,872)	(42,849)	(430,538)	(341,246)	(324,148)	-	(1,248,148)
20								
21 NON FIRM MARGIN AND CREDITS	(314,575)	(327,648)	(309,976)	(310,558)	(313,129)	(299,597)	-	(1,875,483)
22								
23 ENDING BALANCE PRE INTEREST	\$ (1,985,326)	\$ (1,651,611)	\$ 442,059	\$ 3,776,083	\$ 3,461,634	\$ 1,900,022	\$ 1,912,210	\$ 1,945,896
24								
25 INTEREST APPLIED	(728)	(8,110)	(19,678)	(34,216)	16,857	12,189		(33,686)
26								
27								
28 ENDING BALANCE	\$ (1,986,054)	\$ (1,659,721)	\$ 422,381	\$ 3,741,867	\$ 3,478,491	\$ 1,912,210	\$ 1,912,210	\$ 1,912,210



LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
NOVEMBER 2018 THROUGH APRIL 2019  
Off-Peak DEMAND AND COMMODITY  
SCHEDULE 1  
ACCOUNT 1920-1741

FOR THE MONTH OF: DAYS IN MONTH	Nov-18 30	Dec-18 31	Jan-19 31	Feb-19 28	Mar-19 31	Apr-19 30	May-19 31	Total
1 BEGINNING BALANCE	\$ 2,043,678	\$ 4,097,516	\$ 4,115,786	\$ 4,134,138	\$ 2,231,324	\$ 2,226,878	\$ 2,251,812	2,043,678
2								
3 Add: ACTUAL COST	184,620	-	-	-	-	-	-	\$ 184,620
4								
5 Add: MISC OH & PROD and STOR	-	-	-	-	-	-	-	-
6								
7 Less: CUSTOMER BILLINGS	(789,345)	-	-	(1,920,179)	-	-	-	(2,709,524)
8 Net Unbilled	2,645,341	-	-	-	-	-	-	2,645,341
9								
10 Sub-Total Accrued Customer Billings	1,855,996	-	-	(1,920,179)	-	-	-	(64,183)
11								
12 Add: ADJUSTMENTS	-	-	-	-	(14,834)	14,834	-	-
13								
14 ENDING BALANCE PRE INTEREST	\$ 4,084,294	\$ 4,097,516	\$ 4,115,786	\$ 2,213,959	\$ 2,216,490	\$ 2,241,712	\$ 2,251,812	\$ 2,164,115
15								
16								
17 INTEREST APPLIED	13,221	18,270	18,352	17,365	10,388	10,100	-	87,698
18								
19 ENDING BALANCE	\$ 4,097,516	\$ 4,115,786	\$ 4,134,138	\$ 2,231,324	\$ 2,226,878	\$ 2,251,812	\$ 2,251,812	\$ 2,251,812

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
MAY 2018 THROUGH OCTOBER 2018  
PEAK BAD DEBT  
SCHEDULE 1A  
ACCOUNTS 1920-1743

	FOR THE MONTH OF: DAYS IN MONTH	May-18 31	Jun-18 30	Jul-18 31	Aug-18 31	Sep-18 30	Oct-18 31	Total
1	BEGINNING BALANCE	\$ (144,328)	\$ (147,638)	\$ (0)	\$ (160,372)	\$ (161,136)	\$ (0)	(144,328)
2								
3	Add: COST ALLOW	(2,215)	(11,915)	133	(87)	2,319	2,406	\$ (9,358)
4								
5	Adjustment	-	160,162	(160,162)	-	159,478	(159,478)	(0)
6								
7	Less: CUSTOMER BILLINGS	(527)	(10)	(3)	4	(4)	1	(538)
8	Estimated Unbilled	-	-	-	-	-	-	-
9	Reverse Prior Month Unbilled	-	-	-	-	-	-	-
10	Sub-Total Accrued Customer Billings	(527)	(10)	(3)	4	(4)	1	(538)
11								
12	ENDING BALANCE PRE INTEREST	\$ (147,069)	\$ 600	\$ (160,032)	\$ (160,455)	\$ 657	\$ (157,071)	\$ (154,224)
13								
14								
15	INTEREST APPLIED	(569)	(600)	(340)	(681)	(657)	(350)	\$ (3,197)
16								
17	ENDING BALANCE	\$ (147,638)	\$ (0)	\$ (160,372)	\$ (161,136)	\$ (0)	\$ (157,421)	\$ (157,421)

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
NOVEMBER 2018 THROUGH APRIL 2019  
PEAK BAD DEBT  
SCHEDULE 1A  
ACCOUNTS 1920-1743

	FOR THE MONTH OF: DAYS IN MONTH	Nov-18 30	Dec-18 31	Jan-19 31	Feb-19 28	Mar-19 31	Apr-19 30	Total
1	BEGINNING BALANCE	\$ (157,421)	\$ (57,409)	\$ 0	\$ (125,062)	\$ (277,190)	\$ 0	(157,421)
2								
3	Add: COST ALLOW	139,890	183,855	298,857	181,147	121,327	48,841	\$ 973,916
4								
5	Adjustment	-	123,424	(123,424)		395,826	(395,826)	-
6								
7	Less: CUSTOMER BILLINGS	(39,416)	(249,468)	(300,216)	(332,429)	(238,394)	(54,625)	(1,214,549)
8	Estimated Unbilled	-	-	-	-	-	-	-
9	Reverse Prior Month Unbilled	-	-	-	-	-	-	-
10	Sub-Total Accrued Customer Billings	(39,416)	(249,468)	(300,216)	(332,429)	(238,394)	(54,625)	(1,214,549)
11								
12	ENDING BALANCE PRE INTEREST	\$ (56,947)	\$ 402	\$ (124,784)	\$ (276,345)	\$ 1,568	\$ (401,610)	\$ (398,053)
13								
14								
15	INTEREST APPLIED	(463)	(402)	(278)	(846)	(1,568)	(908)	\$ (4,465)
16								
17	ENDING BALANCE	\$ (57,409)	\$ 0	\$ (125,062)	\$ (277,190)	\$ 0	\$ (402,518)	\$ (402,518)

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
NOVEMBER 2018 THROUGH APRIL 2019  
GAS COSTS BY SOURCE  
SCHEDULE 2A

REDACTED

FOR THE MONTH OF:	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
<b>1 DEMAND</b>							
2							
3 ALBERTA NORTHEAST							
4 StatOil							
5 CANADIAN CAPACITY MANAGED							
6 TOTAL CANADIAN DEMAND	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7							
8 PEAKING SUPPLY	-	-	-	-	-	-	-
9							
10 TRANSPORT CAPACITY	1,501,384.32	1,521,307.30	1,473,618.09	1,485,417.47	1,501,712.36	1,465,144.68	8,948,584.22
11 CAPACITY RELEASE ADJUSTMENT	(314,575.36)	(327,647.52)	(309,975.72)	(310,558.39)	(313,128.70)	(299,596.98)	(1,875,482.67)
12 TOTAL TRANSPORT	\$ 1,186,808.96	\$ 1,193,659.78	\$ 1,163,642.37	\$ 1,174,859.08	\$ 1,188,583.66	\$ 1,165,547.70	\$ 7,073,101.55
13							
14 STORAGE FIXED COSTS	10,437.26	14,705.54	14,712.39	14,488.09	15,520.51	11,693.98	81,557.77
15							
16 LNG	-	28,428.35	65,105.76	52,277.68	39,201.81	933.89	185,947.49
17							
18 PROPANE	-	-	-	-	-	-	-
19							
20 PIPELINE REFUNDS	-	-	-	-	-	-	-
21							
22 OTHER	-	-	-	-	-	-	-
23							
24							
25							
26 TOTAL DEMAND	\$ 1,197,246.22	\$ 1,236,793.67	\$ 1,243,460.52	\$ 1,241,624.85	\$ 1,243,305.98	\$ 1,178,175.57	\$ 7,340,606.81
27							
28 <b>COMMODITY</b>							
29							
30 ALBERTA NORTHEAST / BP							
31 ALBERTA NORTHEAST / Emera							
32 SHELL CANADA							
33 TOTAL CANADIAN COMMODITY							
34							
35 PIPELINE TRANSPORT							
36							
37 GAS SUPPLY							
38							
39 STORAGE							
40							
41 LNG							
42							
43 PROPANE							
44							
45 <b>OTHER COST ADJUSTMENTS</b>							
46 CANDIAN CAPACITY MANAGED							
47 OTHER - ICE							
48 NET OTHER COST ADJUSTMENTS							
49							
50 SUBTOTAL COMMODITY COST	\$ 6,804,892.68	\$ 9,272,721.98	\$ 15,824,741.35	\$ 9,113,426.74	\$ 5,700,147.41	\$ 1,631,276.06	\$ 48,347,206.22
51							
52 OFF SYSTEM SALES COST							
53 OFF SYSTEM SALES COST - PPA							
54 NON-FIRM COST							
55							
56 TOTAL COMMODITY COST	\$ 6,804,892.68	\$ 9,272,721.98	\$ 15,824,741.35	\$ 9,113,426.74	\$ 5,700,147.41	\$ 1,631,276.06	\$ 48,347,206.22
57							
58 <b>FOR THE MONTH OF:</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>Total</b>
59							
60 Total Peak Demand	\$ 1,197,246.22	\$ 1,236,793.67	\$ 1,243,460.52	\$ 1,241,624.85	\$ 1,243,305.98	\$ 1,178,175.57	\$ 7,340,606.81
61 Off-Peak Demand	-	-	-	-	-	-	-
62 Total Demand	\$ 1,197,246.22	\$ 1,236,793.67	\$ 1,243,460.52	\$ 1,241,624.85	\$ 1,243,305.98	\$ 1,178,175.57	\$ 7,340,606.81
63							
64 Total Peak Commodity	\$ 6,804,892.68	\$ 9,272,721.98	\$ 15,824,741.35	\$ 9,113,426.74	\$ 5,700,147.41	\$ 1,631,276.06	\$ 48,347,206.22
65 Off-Peak Commodity	-	-	-	-	-	-	-
66 Total Commodity	\$ 6,804,892.68	\$ 9,272,721.98	\$ 15,824,741.35	\$ 9,113,426.74	\$ 5,700,147.41	\$ 1,631,276.06	\$ 48,347,206.22
67							
68 Firm Sendout Costs	\$ 8,002,138.90	\$ 10,509,515.65	\$ 17,068,201.87	\$ 10,355,051.59	\$ 6,943,453.39	\$ 2,809,451.63	\$ 55,687,813.03

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
NOVEMBER 2018 THROUGH APRIL 2019  
DETAIL GAS COSTS BY SOURCE  
SCHEDULE 2B

FOR THE MONTH OF:	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
1 <b>DEMAND</b>							
2 <b>Supply</b>							
3 Alberta Northeast							
4 Statoil							
5 Northeast Gas Markets/BP							
6 <b>Subtotal Canadian Supply</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7 <b>Peaking Supply</b>							
8 Repsol							
9 Granite Ridge							
10 BG Energy							
11 NJR Energy							
12 <b>Subtotal Peaking Supply</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13							
14 <b>Transport Capacity</b>							
15 Iroquois 470-01-RTS							
16 ENGIE							
17 Dominion							
18 Northern Gas							
19 National Fuel N02358							
20 National Fuel O02357							
21 PNGTS FT-1999-001							
22 Twin Eagle							
23 TransCanada							
24 Tenn Reservation FSMA 523							
25 TGP 632 FTA							
26 TGP 2302 FTA Zone 5-6							
27 TGP 8587 FTA							
28 TGP 95346 FTA							
29 TGP 11234 FTA							
30 TGP 33371 NET							
31 TGP 72694 NET							
32 TGP 42076 FTA							
33 Tenaska							
34 Emera Union-M12200							
35 <b>Subtotal Transport Capacity</b>	\$ 1,501,384.32	\$ 1,521,307.30	\$ 1,473,618.09	\$ 1,485,417.47	\$ 1,501,712.36	\$ 1,465,144.68	\$ 8,948,584.22
36							
37 <b>Storage Fixed</b>							
38 Sempra							
39 Dominion 300076-Storage							
40 NFG Deliverability FSS 2357							
41 Tenn Reservation FSMA 523							
42 Honeoye Storage SS-NY							
43 <b>Subtotal Storage</b>	\$ 10,437.26	\$ 14,705.54	\$ 14,712.39	\$ 14,488.09	\$ 15,520.51	\$ 11,693.98	\$ 81,557.77
44							
45 <b>LNG / DISTRIGAS</b>							
46 LNG/ DISTRIGAS FLS160							
47 Transgas Trucking							
48 <b>Subtotal DISTRIGAS</b>	\$ -	\$ 28,428.35	\$ 65,105.76	\$ 52,277.68	\$ 39,201.81	\$ 933.89	\$ 185,947.49
49							
50 <b>Propane</b>							
51 En Propane	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
52							
53 <b>Intercontinental Exchange</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
54							
55 <b>Capacity Managed - Canadian</b>							
56							
57 <b>PNGTS Refund</b>							
58 TGP Pipeline Refund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
59 TGP Pipeline Refund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
60 <b>Demand Subtotal</b>	\$ 1,511,821.58	\$ 1,564,441.19	\$ 1,553,436.24	\$ 1,552,183.24	\$ 1,556,434.68	\$ 1,477,772.55	\$ 9,216,089.48
61							
62 <b>Capacity Release Adjustment</b>							
63 PNGTS FT-1999-001							
64 TGP 72694 NET-NE							
65 Tenn Reservation FSMA 523							
66 Dominion 300076-Storage							
67 National Fuel N02358							
68 National Fuel O02357							
69 TGP 42076 FTA							
70 TGP 632 FTA							
71 TGP 2302 FTA Zone 5-6							
72 TGP 8587 FTA							
73 TGP 95346 FTA							
74 TGP 72694 NET							
75 Iroquois 470-01							
76 TGP FT-A 11234							
77 <b>Total Capacity Release Adjustment</b>							
78							
79 <b>TOTAL DEMAND</b>	\$ 1,197,246.22	\$ 1,236,793.67	\$ 1,243,460.52	\$ 1,241,624.85	\$ 1,243,305.98	\$ 1,178,175.57	\$ 7,340,606.81

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
NOVEMBER 2018 THROUGH APRIL 2019  
DETAIL GAS COSTS BY SOURCE  
SCHEDULE 2B

80 FOR THE MONTH OF:	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
81							
82 <b>COMMODITY</b>							
83							
84 <b>Canadian Supply</b>							
85 VPEM							
86 ANE Union/Dawn/Iroquois (BG)							
87 Shell Canada							
88 <b>Subtotal Canadian Commodity</b>							
89							
90 <b>Pipeline Transport</b>							
91 ANE Union/Dawn							
92							
93 Dominion							
94 El Paso							
95 Iroquois							
96 National Fuel							
97 PNGTS							
98 <b>Subtotal TGP Transportation</b>							
99 <b>Total Transportation</b>							
100							
101 <b>Gas Supply</b>							
102 Andarko							
103 Direct							
104 BG Energy							
105 Barclay							
106 BP Energy							
107 Cargill							
108 Chevron							
109 Constellation							
110 DTE							
111 EServices							
112 Statoil							
113 Exelon							
114 Emera							
115 ENGIE							
116 GDF Suez							
117 Shell							
118 NGL							
119 Macquarie							
120 Nextera							
121 Patriot							
122 Repsol							
123 South Jersey							
124 Sequent							
125 Spark							
126 TransCanada							
127 Twin Eagle							
128 Tenska							
129 UGL							
129 VPEM							
130 United							
131 <b>Total Supply</b>							
132							
133 <b>Peaking Supply</b>							
134 Granite Ridge (formerly AES )							
135							
136 NYMEX Hedging (Gains) Losses							
137							
138 <b>STORAGE WITHDRAWALS</b>							
139							
140 <b>STORAGE INJECTIONS</b>							
141							
142 ENGIE							
143 LNG WITHDRAWAL							
144 LNG INJECTION							
145 <b>Subtotal LNG</b>							
146 <b>PROPANE</b>							
147 Energy North							
148 Propane Storage Withdrawal							
149 Propane Storage Injection							
150 <b>Subtotal Propane</b>							
151							
152 Broker Cashout							
153 Other - ICE							
154 <b>Subtotal Cashout &amp; Other</b>							
155							
156 Capacity Managed							
157 Broker Invoices							
158 <b>Subtotal Capacity Managed</b>							
159							
160 <b>SUBTOTAL COMMODITY</b>							
161							
162 Off System Gas Sales Cost							
163 Off System Sales Costs - PPA							
164 NON-FIRM COST							
165							
166 <b>TOTAL COMMODITY COST</b>	\$ 6,804,892.68	\$ 9,272,721.98	\$ 15,824,741.35	\$ 9,113,426.74	\$ 5,700,147.41	\$ 1,631,276.06	\$ 48,347,206.22

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
NOVEMBER 2018 THROUGH APRIL 2019  
DETAIL GAS COSTS BY SOURCE  
SCHEDULE 2B

167	FOR THE MONTH OF:	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
168								
169	Peak Demand 1920-1740	\$ 1,197,246.22	\$ 1,236,793.67	\$ 1,243,460.52	\$ 1,241,624.85	\$ 1,243,305.98	\$ 1,178,175.57	\$ 7,340,606.81
170	Peak Commodity 1920-1740	6,804,892.68	9,272,721.98	15,824,741.35	9,113,426.74	5,700,147.41	1,631,276.06	48,347,206.22
171	Total Peak Gas Costs	\$ 8,002,138.90	\$ 10,509,515.65	\$ 17,068,201.87	\$ 10,355,051.59	\$ 6,943,453.39	\$ 2,809,451.63	\$ 55,687,813.03
172								
173	Off-Peak Demand 1920-1741	-	-	-	-	-	-	-
174	Off-Peak Comm 1920-1741	-	-	-	-	-	-	-
175	Total Off-Peak Gas Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
176								
177	Firm Sendout Costs	\$ 8,002,138.90	\$ 10,509,515.65	\$ 17,068,201.87	\$ 10,355,051.59	\$ 6,943,453.39	\$ 2,809,451.63	\$ 55,687,813.03

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
NOVEMBER 2018 THROUGH APRIL 2019  
SCHEDULE 3  
WINTER CGAC GAS REVENUES BILLED

FOR MONTH OF:	prior collections	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	subsequent collections	Total
	Off-Peak	Peak	Peak	Peak	Peak	Peak	Peak	Peak	Peak
<b>VOLUMES BILLED</b>									
<b>RESIDENTIAL</b>									
R-1 , R-5	-	49,906	69,585	79,195	80,834	76,637	66,911	-	423,068
R-1 FPO	-	887	6,388	7,140	6,888	6,940	6,026	-	34,269
R-3, R-6	-	4,093,896	7,348,427	8,414,089	9,295,172	8,326,733	5,775,502	-	43,253,819
R-3, R-6 FPO	-	151,201	950,371	1,093,794	1,192,149	1,069,830	748,051	-	5,205,396
R-4, R-7	-	256,340	489,535	587,663	714,433	682,083	536,142	-	3,266,196
R-4, R-7 FPO	-	10,063	77,063	93,241	110,446	103,196	75,278	-	469,287
Total Residential	-	4,562,293	8,941,369	10,275,122	11,399,922	10,265,419	7,207,910	-	
<b>COMMERCIAL/INDUSTRIAL</b>									
G41 - G43	-	2,302,456	4,907,955	6,072,940	6,794,440	6,317,173	4,424,237	-	30,819,201
G41 - G43 (FPO)	-	-	-	-	-	-	-	-	0
Total G41- G43	-	2,302,456	4,907,955	6,072,940	6,794,440	6,317,173	4,424,237	-	
G51 - G63	-	546,003	703,506	831,624	820,933	1,039,020	751,793	-	4,692,879
G51 - G63 (FPO)	-	-	-	-	-	-	-	-	0
Total G51-G63	-	546,003	703,506	831,624	820,933	1,039,020	751,793	-	
Total Sales Volumes	-	7,410,752	14,552,830	17,179,686	19,015,295	17,621,612	12,383,940	-	88,164,115
<b>TRANSPORTATION</b>									
G41 - G43	-	2,646,380	4,725,581	5,268,960	5,777,579	5,244,594	4,080,899	-	27,743,993
G51 - G63	-	3,286,476	3,324,177	3,076,987	3,273,214	2,994,058	2,837,255	-	18,792,167
Total Transportation Volumes	0	5,932,856	8,049,758	8,345,947	9,050,793	8,238,652	6,918,154	0	46,536,160
<b>Total Volumes</b>	<b>0</b>	<b>13,343,608</b>	<b>22,602,588</b>	<b>25,525,633</b>	<b>28,066,088</b>	<b>25,860,264</b>	<b>19,302,094</b>	<b>0</b>	<b>134,700,275</b>
<b>REVENUES</b>									
Residential	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential (FPO)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C/I Sales G41 to G43	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C/I Sales G41 to G43 (FPO)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C/I Transport G41 to G43	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C/I Sales G51 to G63	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C/I Sales G51 to G63 (FPO)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C/I Transport G51 to G63	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Winter Gas Cost Rev filed</b>	<b>\$ -</b>	<b>\$ 2,709,524</b>	<b>\$ 10,417,009</b>	<b>\$ 12,463,903</b>	<b>\$ 11,651,821</b>	<b>\$ 10,917,404</b>	<b>\$ 6,766,771</b>	<b>\$ -</b>	<b>\$ 54,926,432</b>
Winter Proration	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
adjust to pro-ration report	-	-	-	-	-	-	-	-	-
Less Occupant Billing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ -</b>	<b>\$ 2,709,524</b>	<b>\$ 10,417,009</b>	<b>\$ 12,463,903</b>	<b>\$ 11,651,821</b>	<b>\$ 10,917,404</b>	<b>\$ 6,766,771</b>	<b>\$ -</b>	<b>\$ 54,926,432</b>
<b>Summer Gas Cost Billed (Acct 1920-1741)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
Winter Gas Costs Billed (Acct 1920-1740)	\$ -	\$ 2,709,524	\$ 10,417,009	\$ 12,463,903	\$ 11,651,821	\$ 10,917,404	\$ 6,766,771	\$ -	\$ 54,926,432
Winter Transportation Gas Costs Billed (Acct 1920-1740)	-	-	-	-	-	-	-	-	-
<b>Total Winter Gas Cost Billed (Acct 1920-1740)</b>	<b>\$ -</b>	<b>\$ 2,709,524</b>	<b>\$ 10,417,009</b>	<b>\$ 12,463,903</b>	<b>\$ 11,651,821</b>	<b>\$ 10,917,404</b>	<b>\$ 6,766,771</b>	<b>\$ -</b>	<b>\$ 54,926,432</b>
Total Sales COG Billed	\$ -	\$ 2,709,524	\$ 10,417,009	\$ 12,463,903	\$ 11,651,821	\$ 10,917,404	\$ 6,766,771	\$ -	\$ 54,926,432
Plus: Working Capital Gas Cost Billed	-	4,381	27,935	33,589	37,196	30,347	14,912	-	148,359
Plus: Bad Debt Cost Billed	-	39,416	249,468	300,216	332,429	238,394	54,625	-	1,214,549
Plus: Broker Revenues	-	(40,505)	149,872	42,849	430,538	341,246	324,148	-	1,248,148
<b>Total Winter Gas Costs Billed</b>	<b>\$ -</b>	<b>\$ 2,712,816</b>	<b>\$ 10,844,283</b>	<b>\$ 12,840,557</b>	<b>\$ 12,451,984</b>	<b>\$ 11,527,391</b>	<b>\$ 7,160,457</b>	<b>\$ -</b>	<b>\$ 57,537,488</b>



**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**NOVEMBER 2018 THROUGH APRIL 2019**  
**SCHEDULE 3A- CALCULATION OF UNBILLED GAS COSTS (ACCRUED COG)**

<b>FOR MONTH OF:</b>		<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>Total</b>
1	Firm Gas Purchases		20,711,852	24,674,431	30,350,876	25,305,687	22,152,853	13,526,546	136,722,245
2	Firm Sales		7,410,752	14,552,830	17,179,686	19,015,295	17,621,612	12,383,940	88,164,115
3	Company Use		25,346	43,661	57,622	53,073	52,011	21,711	253,424
4	Unaccounted For %		1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	
5	Unaccounted For Gas		331,390	394,791	485,614	404,891	354,446	216,425	2,187,556

**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**NOVEMBER 2018 THROUGH APRIL 2019**  
**SCHEDULE 4 - NONFIRM MARGIN**

**REDACTED**

FOR THE MONTH OF:		Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
1	INTERRUPTIBLE							
2								
3	280 DAY							
4								
5	OFF SYSTEM GAS SALES MARGIN							
6	PROPANE OFF SYSTEM SALES MARGIN							
7								
8	CAPACITY RELEASE CREDIT							
9								
10	TOTAL NON FIRM MARGIN AND CREDITS	\$ (314,575)	\$ (327,648)	\$ (309,976)	\$ (310,558)	\$ (313,129)	\$ (299,597)	\$ (1,875,483)

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**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**NOVEMBER 2018 THROUGH APRIL 2019**  
**PEAK PERIOD WORKING CAPITAL**  
**ACCOUNT 1163-1422**  
**SCHEDULE 5**

FOR THE MONTH OF:		Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
DAYS IN MONTH:		30	31	31	28	31	30	
1	BEGINNING BALANCE	\$ (2,600)	\$ 8,679	\$ 1,315	\$ 1,102	\$ (15,878)	\$ 0	\$ (2,600)
2								
3	Add: COST ALLOW	15,646	20,548	33,372	20,246	13,576	5,493	108,881
4								
5	Less: CUSTOMER BILLINGS	(4,381)	(27,935)	(33,589)	(37,196)	(30,347)	(14,912)	(148,359)
6	Estimated Unbilled	-	-	-	-	-	-	-
7	Reverse Prior Month Unbilled	-	-	-	-	-	-	-
8	Subtotal: Accrued Customer Billings	(4,381)	(27,935)	(33,589)	(37,196)	(30,347)	(14,912)	(148,359)
9								
10	Adjustment	0	0	0	0	32,763	(32,763)	0
11								
12	ENDING BALANCE PRE INTEREST	8,666	1,292	1,097	(15,847)	113	(42,182)	(42,078)
13								
14	INTEREST APPLIED	13	22	5	(31)	(113)	(95)	(199)
15	ENDING BALANCE	\$ 8,679	\$ 1,315	\$ 1,102	\$ (15,878)	\$ 0	\$ (42,276)	\$ (42,276)

ENERGY NORTH NATURAL GAS, INC  
D/B/A LIBERTY UTILITIES  
NOVEMBER 2018 THROUGH APRIL 2019  
Off-Peak WORKING CAPITAL  
ACCOUNT 1163-1424  
SCHEDULE 5

FOR THE MONTH OF:		Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
DAYS IN MONTH		30	31	31	28	31	30	
1	BEGINNING BALANCE	\$ (8,006)	\$ (18,363)	\$ (19,042)	\$ (19,121)	\$ (19,248)	\$ (19,397)	\$ (8,006)
2								
3	Add: ACTUAL COST	361	-	-	-	(0)	-	361
4								
5	Less: CUSTOMER BILLINGS	(10,661)	(596)	(37)	(46)	(59)	0	(11,399)
6	Estimated Unbilled	-	-	-	-	-	-	-
7	Reverse Prior Month Unbilled	-	-	-	-	-	-	-
8	Subtotal: Accrued Customer Billings	(10,661)	(596)	(37)	(46)	(59)	0	(11,399)
9								
10	Adjustment	0	-	-	-	-	-	0
11								
12	ENDING BALANCE PRE INTEREST	(18,306)	(18,959)	(19,079)	(19,167)	(19,307)	(19,397)	(19,044)
13								
14	INTEREST APPLIED	(57)	(83)	(43)	(81)	(90)	(44)	(397)
15	ENDING BALANCE	\$ (18,363)	\$ (19,042)	\$ (19,121)	\$ (19,248)	\$ (19,397)	\$ (19,441)	\$ (19,441)

**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**NOVEMBER 2018 THROUGH APRIL 2019**  
**SCHEDULE 6**  
**WINTER BAD DEBT AND WORKING CAPITAL COSTS**

FOR MONTH OF:	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
1 Demand	\$ 1,197,246	\$ 1,236,794	\$ 1,243,461	\$ 1,241,625	\$ 1,243,306	\$ 1,178,176	\$ 7,340,607
2 Commodity	6,804,893	9,272,722	15,824,741	9,113,427	5,700,147	1,631,276	48,347,206
3 Total Gas Costs	\$ 8,002,139	\$ 10,509,516	\$ 17,068,202	\$ 10,355,052	\$ 6,943,453	\$ 2,809,452	\$ 55,687,813
4							
5 Lead Lag Days	0.0391	0.0391	0.0391	0.0391	0.0391	0.0391	
6 Prime Rate	5.25%	5.50%	5.50%	5.50%	5.50%	5.50%	
7							
8 Working Capital Rate 1/	0.00205	0.00215	0.00215	0.00215	0.00215	0.00215	
9							
10 Total Working Capital Costs	\$ 15,646	\$ 20,548	\$ 33,372	\$ 20,246	\$ 13,576	\$ 5,493	\$ 108,881
11							
12 Prior Period Under collection	433,226	433,226	433,226	433,226	433,226	433,226	2,599,354
13							
14 Subtotal Gas Costs, Working Capital & Under Collection	8,451,010	10,963,290	17,534,799	10,808,524	7,390,255	3,248,170	58,396,048
15							
16 Bad Debt Rate 1/	0.0191	0.0191	0.0191	0.0191	0.0191	0.0191	
17							
18 Total Bad Debt Cost	\$ 139,890	\$ 183,855	\$ 298,857	\$ 181,147	\$ 121,327	\$ 48,841	\$ 973,916

**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**MAY 2018 THROUGH OCTOBER 2018**  
**SCHEDULE 6**  
**SUMMER BAD DEBT AND WORKING CAPITAL COSTS**

FOR MONTH OF:	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total
1 Demand	\$ 319,158	\$ 296,377	\$ 304,323	\$ 293,162	\$ 278,534	\$ 289,390	\$ 1,780,943
2 Commodity	1,470,894	1,121,937	1,206,425	1,257,750	1,213,494	2,512,018	8,782,517
3 Total Gas Costs	<b>\$ 1,790,052</b>	<b>\$ 1,418,314</b>	<b>\$ 1,510,747</b>	<b>\$ 1,550,912</b>	<b>\$ 1,492,028</b>	<b>\$ 2,801,408</b>	<b>\$ 10,563,460</b>
4							
5 Lead Lag Days	<b>0.0391</b>	<b>0.0391</b>	<b>0.0391</b>	<b>0.0391</b>	<b>0.0391</b>	<b>0.0391</b>	
6 Prime Rate	<b>4.75%</b>	<b>5.00%</b>	<b>5.00%</b>	<b>5.00%</b>	<b>5.25%</b>	<b>5.25%</b>	
7							
8 Working Capital Rate	0.00186	0.00196	0.00196	0.00196	0.00205	0.00205	
9							
10 Working Capital Adjustment	\$ (557)	\$ (557)	\$ (557)	\$ (557)	\$ (557)	\$ (557)	\$ (3,342)
11							
12 Total Working Capital Costs	<b>\$ 2,768</b>	<b>\$ 2,216</b>	<b>\$ 2,397</b>	<b>\$ 2,475</b>	<b>\$ 2,506</b>	<b>\$ 5,194</b>	<b>\$ 17,556</b>
13							
14 Prior Period (Over)Under collection	\$ (154)	\$ (154)	\$ (154)	\$ (154)	\$ (154)	\$ (154)	\$ (927)
15							
16 Subtotal Gas Costs, Working Capital & Under Collection	\$ 1,792,665	\$ 1,420,375	\$ 1,512,990	\$ 1,553,233	\$ 1,494,379	\$ 2,806,447	\$ 10,580,090
17							
18 Bad Debt Rate	<b>0.0111</b>	0.0111	0.0111	0.0111	0.0111	0.0111	
19							
20 Bad Debt Adjustment	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 3
21							
22 Total Bad Debt Cost	<b>\$ 19,899</b>	<b>\$ 15,767</b>	<b>\$ 16,795</b>	<b>\$ 17,241</b>	<b>\$ 16,588</b>	<b>\$ 31,152</b>	<b>\$ 117,442</b>

**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**MAY 2018 THROUGH APRIL 2019**  
**SCHEDULE 6**  
**WINTER BAD DEBT AND WORKING CAPITAL COSTS**

FOR MONTH OF:		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	
1	Monthly Revenue	\$ 5,518,055	\$ 5,250,959	\$ 4,150,254	\$ 4,652,355	\$ 4,048,888	\$ 8,187,470	
2	Charge Off	49,906	115,295	167,595	467,934	179,892	139,844	

FOR MONTH OF:		Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Total
3	Monthly Revenue	\$ 19,189,110	\$ 22,787,841	\$ 29,614,213	\$ 20,457,721	\$ 18,561,186	\$ 12,028,274	<b>154,446,327</b>
4	Charge Off	45,711	124,421	83,804	97,205	85,325	163,655	<b>1,720,587</b>
5	Bad Debt Rate							<b>0.0111</b>

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP  
D/B/A LIBERTY UTILITIES  
NOVEMBER 2018 THROUGH APRIL 2019  
SCHEDULE 7  
WORKING CAPITAL & BAD DEBT COLLECTED

FOR MONTH OF:	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Off-Peak 5/04	Total
WORKING CAPITAL RATES	\$ 0.0001	\$ 0.0001	\$ 0.0001	\$ 0.0001	\$ 0.0001	\$ 0.0001	\$ -		
WORKING CAPITAL COLLECTED	\$ 4,380.58	\$ 27,934.62	\$ 33,589.36	\$ 37,195.84	\$ 30,346.75	\$ 14,912.33	\$ -	\$ -	\$ 148,359.48
BAD DEBT RATES	\$ 0.0191	\$ 0.0191	\$ 0.0191	\$ 0.0191	\$ 0.0191	\$ 0.0191	\$ -		
BAD DEBTS COLLECTED	\$ 39,416.26	\$ 249,467.80	\$ 300,216.18	\$ 332,429.28	\$ 238,394.48	\$ 54,624.82	\$ -	\$ -	\$ 1,214,548.82



	Nov-18			Dec-18			Jan-19			Feb-19			Mar-19			Apr-19			Total								
	Dollar	REC VOL	DEL VOL	Dollar	REC VOL	DEL VOL	Dollar	REC VOL	DEL VOL	Dollar	REC VOL	DEL VOL	Dollar	REC VOL	DEL VOL	Dollar	REC VOL	DEL VOL	Dollar	Del Vol Dth							
1	<b>TENNESEE COMMODITY</b>																										
	Gas Supply Purchases for Sendout																										
	TGP/Supply Area Transport/Variable Costs																										
	\$	2,323,417	577,576	569,188	\$	1,181,184	278,913	275,456	\$	724,642	214,998	210,751	\$	579,234	207,914	204,904	\$	842,667	290,870	286,739	\$	1,400,189	536,461	529,310	\$	7,051,332	2,076,348
2	City Gate Purchases for Sendout																										
3	Dracut Purchases for Sendout																										
	Dracut Transport/Variable Costs																										
	\$	-	-	-	\$	-	-	-	\$	1,049,662	100,090	99,990	\$	564,551	84,906	84,821	\$	397,325	63,987	63,923	\$	50,316	11,200	11,200	\$	2,061,854	259,934
4	PNGTS Purchases for Sendout (Berlin)																										
	PNGTS Transport/Variable Costs																										
	\$	34,710	6,000,000	6,000,000	\$	103,514	8,835,000	8,835,000	\$	78,070	7,440,000	7,440,000	\$	66,542	6,860,000	6,860,000	\$	36,408	7,130,000	7,130,000	\$	15,266	3,900,000	3,900,000	\$	334,509	40,165
5	TGP/Niagara Purchases for Sendout																										
	TGP/Niagara Transport/Variable Costs																										
	\$	295,262	67,950,000	67,343,000	\$	153,114	36,990,000	36,660,000	\$	234,503	56,810,000	56,304,000	\$	133,181	44,370,000	43,974,000	\$	200,602	63,640,000	63,074,000	\$	59,970	22,302,000	22,095,000	\$	1,076,632	289,450
6	Union/Transcanada Purchases for Sendout (A)																										
	(Union/TCPL/IRO) Transport/Variable Costs																										
	TGP (Un/TCPL/IRO Path) Transport/Variable Costs																										
	\$	318,752	94,560,000	93,960,000	\$	476,702	96,780,000	95,892,000	\$	364,922	98,456,000	97,247,000	\$	258,489	88,620,000	87,640,000	\$	286,670	98,394,000	97,495,000	\$	62,146	30,297,000	29,980,000	\$	1,767,680	502,214
7	Union/Transcanada Purchases for Sendout (B)																										
	(Union/TCPL/PNGTS) Transport/Variable Costs																										
	TGP (Un/TCPL/PNGTS Path) Transport/Variable Costs																										
	\$	(27,647)	0	0	\$	(83,150)	18876	18863	\$	(67,786)	29080	29060	\$	(82,206)	29060	29040	\$	(49,534)	36534	36509	\$	(78,714)	0	0	\$	(389,038)	113,472
8	<b>LNG</b>																										
	Constellation DMD Charge(s) Deals A & B																										
9	LNG Vapor - P/S Plant																										
	<b>Propane</b>																										
	Off System Sales (EN Propane- Vol = *Gal )																										
	Propane Sendout - P/S Plant																										
	EN Propane - Tank Farm																										
	\$	157,476	6,611	10,721	\$	49,911	5,645	2,919	\$	195,191	8,993	13,266	\$	117,260	4,464	8,215	\$	40,172	7,177	2,014	\$	-	-	-	\$	560,009	37,135
10	<b>Storage</b>																										
	Storage Withdrawals for Sendout																										
	Storage Withdrawal /Transport costs																										
	\$	259,884	95814	94432	\$	953,712	349788	344691	\$	1,277,147	468164	461383	\$	1,080,103	395874	390202	\$	1,182,294	433162	426906	\$	25,946	9528	9400	\$	4,779,084	1,727,014
11	<b>OBA</b>																										
12	<b>Firm Transportation</b>																										
13	<b>Variance</b>																										
14	<b>NET COMMODITY COST</b>																										
	\$	7,175,946	2,071,185		\$	10,729,882	2,467,443		\$	14,438,705	3,035,088		\$	9,648,156	2,530,569		\$	6,131,239	2,215,285		\$	2,065,432	1,352,655		\$	50,189,360	13,672,225

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**LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP**  
**D/B/A LIBERTY UTILITIES**  
**NOVEMBER 2018 THROUGH APRIL 2019**  
**MONTHLY PRIME RATES**  
**SCHEDULE 9**

Schedule 9  
Page 1 of 1

<b>MONTH</b>	<b>DATES</b>	<b>PRIME RATE</b>	<b># DAYS</b>	<b>DAYS IN MONTH</b>	<b>WEIGHTED RATE</b>
Nov-18	11/01 - 11/30	<b>5.25%</b>	30	30	5.2500%
Dec-18	12/01 - 012/31	<b>5.50%</b>	31	31	5.5000%
Jan-19	01/01 - 01/31	<b>5.50%</b>	31	31	5.5000%
Feb-19	02/01 - 02/28	<b>5.50%</b>	28	28	5.5000%
Mar-19	03/01 - 03/31	<b>5.50%</b>	31	31	5.5000%
Apr-19	04/01 - 04/30	<b>5.50%</b>	30	30	5.5000%