



**CONFIDENTIAL
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January 31, 2020

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
2019 Summer 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 dated November 1, 2018, in Docket No DG 18-137, I enclose for filing one redacted and one confidential copy of the 2019 Summer 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 within a hand-drawn oval.

Catherine A. McNamara

Enclosures

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
May 01, 2019 through October 31, 2019
DG 18-137

	<u>Filing (1)</u>	<u>Actual</u>	<u>Difference</u>
Account 8840-2-0000-10-1920-1741			
Balance 10/31/18 - (Over) / Under	\$ 617,043	\$ 2,108,342	\$ 1,491,299
Prior Period Adjustment	-	55,773	55,773
Interest 11/1/18 - 4/30/19	<u>15,458</u>	<u>87,698</u>	<u>72,239</u>
Beginning Balance 5/1/19	\$ 632,501	\$ 2,251,812	\$ 1,619,311
Interest 5/1/19 - 10/31/19	26,735	89,535	62,800
Prior Period Adjustments	-	-	-
Interruptible Margin	-	-	-
280-Day Margin	-	-	-
Emergency Sales Margin	-	-	-
Non-Firm Transportation Margin	-	-	-
Other Transportation Related Margins	-	-	-
Capacity Release and Fixed Price Credits	-	-	-
Price Risk Management	-	-	-
Overhead	2,489	2,489	0
Occupant Disallowance/Credits	-	-	-
Total Bad Debt % Adjustment	-	-	-
Gas Costs	<u>\$ 7,861,080</u>	<u>\$ 6,780,173</u>	<u>\$ (1,080,907)</u>
Total Costs	<u>\$ 7,890,304</u>	<u>\$ 6,872,197</u>	<u>\$ (1,018,108)</u>
Gas Cost Billed	<u>\$ (8,522,806)</u>	<u>\$ (9,705,480)</u>	<u>\$ (1,182,675)</u>
Total (Over) / Under 10/31/19	<u>\$ -</u>	<u>\$ (581,471)</u>	<u>\$ (581,471)</u>
Bad Debts Account 8840-2-0000-10-1163-1754			
Balance 10/31/18 - (Over) / Under	\$ 18,034	\$ (88,518)	\$ (106,552)
Prior Period Adjustment	-	(144,402)	(144,402)
Interest 11/1/18 - 4/30/19	<u>452</u>	<u>(4,831)</u>	<u>(5,282)</u>
Beginning Balance 5/1/19	\$ 18,486	\$ (237,750)	\$ (256,236)
Bad Debt Costs	148,208	171,049	22,841
Bad Debt Billed	(167,747)	(275,426)	(107,679)
Adjustment	0	0	0
Interest	1,053	(6,403)	(7,456)
Total (Over) / Under 10/31/19	\$ (0)	\$ (348,530)	\$ (348,530)
Working Capital Account 8840-2-0000-10-1163-1424			
Balance 10/31/18 - (Over) / Under	\$ (4,953)	\$ (8,006)	\$ (3,053)
Prior Period Adjustment	0	(11,038)	(11,038)
Interest 11/1/18 - 4/30/19	<u>(124)</u>	<u>(397)</u>	<u>(273)</u>
Beginning Balance 5/1/19	\$ (5,077)	\$ (19,441)	\$ (14,365)
Working Capital Costs	15,370	19,073	3,703
Working Capital Billed	(10,146)	(17,274)	(7,128)
Adjustment	0	0	0
Interest	(147)	(410)	(263)
Total (Over) / Under 10/31/19	\$ -	\$ (18,051)	\$ (18,051)
Total All Accounts	<u>\$ -</u>	<u>\$ (948,052)</u>	<u>\$ (948,052)</u>

(1) As filed in the Summer 2019 Cost of Gas in DG 18-137.

On November 01, 2018 the NHPUC approved the August 31, 2018 filing in DG 18-137 in its Order No. 26,188.

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
SUMMER 2019 COST OF GAS RESULTS
DG 18-137
SUMMARY OF DEMAND CHARGES FOR PERIOD
May 01, 2019 through October 31, 2019

	<u>Reference Actuals</u>	<u>Filing 1/</u>	<u>Actual</u>	<u>Difference</u>
<u>Supplies:</u>				
Transgas	Sch 2B line 6			
Subtotal Supply Demand Charges				
<u>Pipelines:</u>				
ANE (Union gas and TransCanada)	No Actuals			
Constellation	Sch 2B line 17			
Dominion	No Actuals			
IGTS Iroquois	Sch 2B line 19			
Direct Energy	No Actuals			
TGP 523	No Actuals			
TGP Contract 8587 Zone 0-6	Sch 2B line 31			
TGP 95346	Sch 2B line 32			
TGP 42076 Dracut	No Actuals			
TGP (Concord Lateral) 72694	No Actuals			
TGP 2694	No Actuals			
TGP 2302 Z5-Z6	Sch 2B line 24			
Portland Natural Gas Pipeline	Sch 2B line 21			
Subtotal Pipeline Demand Charges				
<u>LNG:</u>				
Domac	Sch 2B line 45	\$ -	\$ -	\$ -
<u>Propane</u>				
EN Propane	Sch 2B line 48	\$ -	\$ -	\$ -
<u>Storage:</u>				
Demand & Capacity Charges		\$ -	\$ -	\$ -
<u>Other</u>				
Fees	Sch 2B line 50	\$ -	\$ -	\$ -
Pipeline Refunds	Sch 2B line 51	-	-	-
Repsol	Sch 2B line 12		-	
Transportation Capacity Credit	Sch 2B line 73			
Subtotal Other Demand Charges				
Total Demand Charges (Forward to Page 3)		\$ 4,225,549	\$ 2,939,369	(\$1,286,180)

1/ Demand costs per Schedule 5A as filed in the Summer 2019 Cost of Gas in DG 18-137.

This page is filed pursuant to the confidentiality provisions outlined in Puc 201.06(a)(26).

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
SUMMER 2019 COST OF GAS RESULTS
DG 18-137

Summary Page 3
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SUMMARY OF COMMODITY COSTS FOR PERIOD
May 01, 2019 through October 31, 2019

Demand Charges (Brought from Page 2): \$4,225,549 \$2,939,369 (\$1,286,180)

	<u>Reference Actuals</u>	<u>Filing 1/</u>	<u>Average Cost per Therm</u>	<u>Actual</u>	<u>Average Cost per Therm</u>	<u>Difference</u>
<u>TGP Gulf Commodity</u>						
Therms	Sch 8, line 4					
Cost	Sch 8, line 4					
<u>Dracut Commodity</u>						
Therms	No Actuals					
Cost	No Actuals					
<u>PNGTS Commodity</u>						
Therms	Sch 8, line 14					
Cost	Sch 8, line 14					
<u>TGP/Iroquois Commodity (Dawn)</u>						
Therms	No Actuals					
Cost	No Actuals					
<u>TGP/Niagara Commodity</u>						
Therms	Sch 8, lines 17 + 18					
Cost	Sch 8, lines 17 + 18					
<u>City Gate Delivered Supply</u>						
Therms	Sch 8, line 7					
Cost	Sch 8, line 7					
<u>Storage Gas - Commodity Withdrawn</u>						
Therms	Sch 8, lines 41 + 42					
Cost	Sch 8, lines 41 + 42					
<u>LNG P/S Plant Commodity-Vapor</u>						
Therms	Sch 8, line 33					
Cost	Sch 8, line 33					
<u>Other</u>						
Therms	Sch 8, lines 20 + 24 + 45 + 51					
Cost	Sch 8, lines 20 + 24 + 45 + 51					
Subtotal:						
Volumes (net of fuel retention)		17,182,520		17,929,880		747,360
Cost		\$ 3,630,034	0.2113	\$ 3,396,970	0.1895	\$ (233,063.69)
Total Demand and Commodity Costs		\$ 7,855,583		\$ 6,336,339		\$ (1,519,244)
Demand (therms):						
Firm Gas Transported		17,182,520		17,929,880		747,360
Lost Gas (Unaccounted For)		274,920		286,878		11,958
Unbilled Therms		-		(11,879)		(11,879)
Fuel Retention		-		-		-
Company Use		40,429		40,429		-
Total Demand		17,497,869		18,245,308		747,439

1/ Commodity costs and forecasted volumes per Schedule 6 as filed in the Summer 2019 Cost of Gas in DG 18-137.

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
SUMMER 2019 COST OF GAS RESULTS
DG 18-137
May 01, 2019 through October 31, 2019

Summary Page 4
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	(A) Actual Volume	(B) Normal Volume	(C) Forecast Rate (a)	(A-B)*C Difference				
<u>Weather Variance - Volume Impact</u>								
TGP Gulf Commodity								
Dracut Commodity								
PNGTS Commodity								
TGP/Iroquois Commodity (Dawn)								
TGP/Niagara Commodity								
City Gate Delivered Supply								
Storage Gas - Commodity Withdrawn								
Propane P/S Plant Commodity								
Propane Tank Farm Commodity								
LNG P/S Plant Commodity								
Other								
Total Volume Weather Variance					17,929,580	18,629,836	\$	(140,542)

	(A) Forecast Volume	(B) Actual Volume	(C) Forecast Rate (a)	Difference				
<u>Demand Variance - Commodity Costs</u>								
TGP Gulf Commodity								
Dracut Commodity								
PNGTS Commodity								
TGP/Iroquois Commodity (Dawn)								
TGP/Niagara Commodity								
City Gate Delivered Supply								
Storage Gas - Commodity Withdrawn								
Propane P/S Plant Commodity								
Propane Tank Farm Commodity								
Other								
Total Demand Variance (Less: Fuel Retention)					17,182,520	17,929,580	\$	11,297

Per Sched 8

17,929,880

Demand Variance Net of Weather Variance

-

	(A) Actual Volume	(B) Forecast Rate (a)	(C) Actual Rate	(C-B)*A Difference				
<u>Rate Variance - Commodity Costs</u>								
TGP Gulf Commodity								
Dracut Commodity								
PNGTS Commodity								
TGP/Iroquois Commodity (Dawn)								
TGP/Niagara Commodity								
City Gate Delivered Supply								
Storage Gas - Commodity Withdrawn								
Propane P/S Plant Commodity								
Propane Tank Farm Commodity								
Other								
Total Commodity Cost Rate Variance					17,929,580		\$	(224,146)
Other Rate Variance (from page 2)								(1,286,180)
Hedge (Gains)/Loss (from page 3)								0
Total Rate Variance				(\$1,510,325)				
Due to Weather Variance				(140,542)				
Due to Demand Variance (from above)				0				
Other- Cashout, Broker Penalty, Canadian Managed				(450,828)				
Total Gas Cost Variance				<u>(\$2,101,696)</u>				

(a) used actual rate if there was no forecasted rate

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
May 01, 2019 through October 31, 2019
PEAK DEMAND AND COMMODITY
Account 8840-2-0000-10-1920-1740 (formerly, 175.20)

	FOR THE MONTH OF: DAYS IN MONTH	May-19 31	Jun-19 30	Jul-19 31	Aug-19 31	Sep-19 30	Oct-19 31	Total
1	BEGINNING BALANCE	\$ 1,912,210	\$ 2,076,313	\$ 2,680,015	\$ 2,217,104	\$ 3,147,688	\$ 3,784,588	\$ 1,912,210
2								
3	Add: ACTUAL COSTS	(222,534)	139,419	(11,426)	(497,709)	201,348	345,839	(45,064)
4	Adjustments to Purchased Gas Costs	8,742	(58,817)	(34,663)	(28,892)	(54,236)	(53,898)	(221,764)
5	Inj into Storage	625,948	595,682	589,827	516,929	497,285	371,075	3,196,746
6	Total Costs	412,156	676,284	543,738	(9,672)	644,397	663,016	2,929,919
7								
8	Add: MISCELLANEOUS	393,365	474	-	-	-	-	393,839
9								
10								
11	Less: CUSTOMER BILLINGS	(3,061,575)	(79,708)	(1,011,307)	936,940	(11,780)	(19,396)	(3,246,826)
12	Estimated Unbilled (Net)	2,412,342	-	-	-	-	-	2,412,342
13	Sub-Total Accrued Customer Billings	(649,233)	(79,708)	(1,011,307)	936,940	(11,780)	(19,396)	(834,485)
14								
15	Less: OCCUPANT DISALLOW/(CREDIT)	-	-	-	-	-	-	-
16								
17	NON FIRM MARGIN AND CREDITS	-	-	-	-	-	-	-
18								
19	ENDING BALANCE PRE INTEREST	2,068,498.00	2,673,362.29	2,212,445.87	3,144,371.20	3,780,304.66	4,428,208.96	4,401,483.19
20								
21	MONTH'S AVERAGE BALANCE	1,990,354	2,374,838	2,446,231	2,680,737	3,463,996	4,106,399	
22								
23	INTEREST RATE	5.50%	5.50%	5.50%	5.25%	5.25%	5.00%	
24								
25	INTEREST APPLIED	7,815	6,653	4,658	3,317	4,284	5,478	32,204
26								
27	ENDING BALANCE	\$ 2,076,313	\$ 2,680,015	\$ 2,217,104	\$ 3,147,688	\$ 3,784,588	\$ 4,433,687	\$ 4,433,687

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
May 01, 2019 through October 31, 2019
OFF PEAK DEMAND AND COMMODITY
Account 8840-2-0000-10-1920-1741 (formerly, 175.40)

	FOR THE MONTH OF: DAYS IN MONTH	May-19 31	Jun-19 30	Jul-19 31	Aug-19 31	Sep-19 30	Oct-19 31	Total
1	BEGINNING BALANCE	\$ 2,251,812	\$ 2,034,669	\$ 1,947,505	\$ 2,739,634	\$ 1,369,046	\$ 1,239,062	\$ 2,251,812
2								
3	Add: ACTUAL COSTS	2,133,507	1,556,985	1,530,485	1,334,112	1,534,853	1,665,213	9,755,155
4	ADJUSTMENTS TO PURCHASE GAS COSTS	(8,742)	58,817	34,663	28,892	54,236	53,898	221,764
5	ADJUSTMENTS TO PURCHASE GAS COSTS	(625,948)	(595,682)	(589,827)	(516,929)	(497,285)	(371,075)	(3,196,746)
6	Total Costs	1,498,817	1,020,120	975,321	846,076	1,091,804	1,348,035	6,780,173
7								
8	Add: MISCELLANEOUS	415	415	415	415	415	415	2,489
9								
10								
11	Less: CUSTOMER BILLINGS	(730,386)	(1,598,925)	(34,325)	(2,007,812)	(1,054,290)	(1,518,845)	(6,944,584)
12	Estimated Unbilled (Net)	(997,456)	478,173	(166,958)	(228,024)	(183,165)	(1,663,466)	(2,760,896)
13	Sub-Total Accrued Customer Billings	(1,727,842)	(1,120,753)	(201,283)	(2,235,836)	(1,237,456)	(3,182,311)	(9,705,480)
14								
15	Less: OCCUPANT DISALLOW/(CREDIT)	-	-	-	-	-	-	-
16								
17	ENDING BALANCE PRE INTEREST	\$ 2,023,202	\$ 1,934,451	\$ 2,721,958	\$ 1,350,288	\$ 1,223,810	\$ (594,799)	\$ (671,006)
18								
19	MONTH'S AVERAGE BALANCE	2,137,507	1,984,560	2,334,732	2,044,961	1,296,428	322,132	
20								
21	INTEREST RATE	5.50%	5.50%	5.50%	5.25%	5.25%	5.00%	
22								
23	INTEREST APPLIED	11,467	13,054	17,675	18,758	15,252	13,328	89,535
24								
25	ENDING BALANCE	\$ 2,034,669	\$ 1,947,505	\$ 2,739,634	\$ 1,369,046	\$ 1,239,062	\$ (581,471)	\$ (581,471)

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
May 01, 2019 through October 31, 2019
SCHEDULE 2 A
GAS COSTS BY SOURCE

Schedule 2 A
REDACTED

FOR THE MONTH OF:	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Total
1 DEMAND							
2							
3 ALBERTA NORTHEAST							
4 UNION GAS							
5 CANADIAN CAPACITY MANAGED							
6 TOTAL CANADIAN	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7							
8 PEAKING SUPPLY							
9							
10 TRANSPORT CAPACITY	\$ 649,458	\$ 636,180	\$ 640,239	\$ 645,666	\$ 638,554	\$ 637,731	\$ 3,847,828
11 CAPACITY RELEASE ADJ	(153,025)	(141,582)	(160,627)	(174,583)	(144,200)	(144,472)	(918,489)
12 TOTAL TRANSPORT	\$ 496,433	\$ 494,598	\$ 479,612	\$ 471,083	\$ 494,353	\$ 493,259	\$ 2,929,339
13							
14 STORAGE FIXED COSTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15							
16 LNG	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17							
18 PROPANE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19 PIPELINE REFUNDS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
20 OTHER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
21							
22 TOTAL DEMAND	\$ 496,433	\$ 494,598	\$ 479,612	\$ 471,083	\$ 494,353	\$ 493,259	\$ 2,929,339
23							
24 COMMODITY							
25							
26 BP/NORTHEAST GAS MARKETS							
27 DTE ENERGY							
28 SEMPRA							
29 TOTAL CANADIAN COMMODITY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30							
31 PIPELINE TRANSPORT							
32							
33 GAS SUPPLY							
34							
35 STORAGE							
36							
37 LNG							
38							
39 PROPANE							
40							
41 TAXES							
42							
43 SUPPLIER CASHOUT							
44							
45 CAPACITY MANAGED							
46							
47 FPO Mailing Costs							
48							
49 FPO Mailing Costs Moved to Winter in December 2015							
50							
51 SUBTOTAL COMMODITY COST	\$ 1,000,309	\$ 521,485	\$ 493,402	\$ 372,559	\$ 594,689	\$ 851,706	\$ 3,834,150
52							
53 ICE Fees							
54							
55 OFF SYSTEM SALES							
56							
57 NON-FIRM COST							
58							
59 NET COMMODITY COST	\$ 1,002,384	\$ 523,560	\$ 494,440	\$ 373,596	\$ 594,689	\$ 852,135	\$ 3,840,804

GAS COSTS SUMMARY
SCHEDULE 2 A

FOR THE MONTH OF:	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Total
60							
61							
62 Total Peak Demand	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
63 Off-Peak Demand	496,433	496,560	480,881	472,479	497,114	495,901	2,939,369
64 Total Demand	\$ 496,433	\$ 496,560	\$ 480,881	\$ 472,479	\$ 497,114	\$ 495,901	\$ 2,939,369
65							
66 Total Peak Commodity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
67 Off-Peak Commodity	1,002,384	523,560	494,440	373,596	594,689	852,135	3,840,804
68 Total Commodity	\$ 1,002,384	\$ 523,560	\$ 494,440	\$ 373,596	\$ 594,689	\$ 852,135	\$ 3,840,804
69							
70 Firm Sendout Costs	\$ 1,498,817	\$ 1,020,120	\$ 975,321	\$ 846,076	\$ 1,091,804	\$ 1,348,035	\$ 6,780,173

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
May 01, 2019 through October 31, 2019
SCHEDULE 2 B
DETAIL GAS COSTS BY SOURCE

FOR THE MONTH OF:	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Total
1 DEMAND							
2 Fixed Charges/Supply							
3 ANE PK							
4 Emera OP							
5 TransCanada OP							
6 Transgas OP							
7 Union Gas OP							
8 Total Canadian Purchases	\$ -	\$ 1,962.03	\$ 1,268.93	\$ 1,396.28	\$ 2,761.16	\$ 2,641.81	\$ 10,030
9 PEAKING SUPPLY							
10 Granite Ridge PK							
11 NJR Energy PK							
12 Repsol PK							
13 JP Morgan PK							
14 Subtotal Peaking Supply	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16 Transport Capacity							
17 Constellation OP							
18 Direct OP							
19 IROQUOIS 470-01 RTS OP							
20 NFGS NO2358 FST PK							
21 PNGTS FT-1999-001 OP							
22 TC Energy OP							
23 TGP 11234 FTA Zone 4-6 PK							
24 TGP 2302 FTA Zone 5-6 OP							
25 TGP 2694 PK							
26 TGP 42076 FTA PK							
27 TGP 523 OP							
28 TGP 632 FTA Zone 4-6 PK							
29 TGP 72694 NET PK							
30 TGP 72694 NET PK							
31 TGP 8587 FTA Zone 0-6 OP							
32 TGP 95346 OP							
33 SubTotal Transport Capacity	\$ 649,458.32	\$ 636,179.54	\$ 640,239.43	\$ 645,666.41	\$ 638,553.54	\$ 637,730.65	\$ 3,847,828
36 Storage Fixed							
37 Dominion - Storage Demand 300076 PK							
38 TGP FSMA - Storage Demand PK							
39 Nat'l Fuel - Storage Demand PK							
40 Honeoye - Storage Demand PK							
41 Sempra - Storage Demand PK							
42 SubTotal Storage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
44 LNG							
45 LNG - Res Charge (Distrigas) OP							
47 PROPANE							
48 ENERGNORTH Propane OP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
49							
50 ICE Fees OP							
51 TGP Pipeline Refund OP							
52							
53 Capacity Managed - Canadian PK							
54							
55 Demand Subtotal	\$ 649,458.32	\$ 638,141.57	\$ 641,508.36	\$ 647,062.69	\$ 641,314.70	\$ 640,372.46	\$ 3,857,858
56 Capacity Release Adjustments:							
57 Dominion 300076 PK							
58 Emera OP							
59 Iroquois OP							
60 National Fuel N02358 PK							
61 National Fuel O02357 PK							
62 Portland Gas 1999-001 OP							
63 TGP 11234 FTA PK							
64 TGP 2302 FTA OP							
65 TGP 42076 PK							
66 TGP 523 PK							
67 TGP 632 FSMA PK							
68 TGP 72694 FTA PK							
69 TGP 72694 FTA PK							
70 TGP 8587 OP							
71 TGP 95346 FTA OP							
72 Twin Eagle OP							
73 SubTotal Capacity Releases	\$ (153,025.12)	\$ (141,581.92)	\$ (160,627.11)	\$ (174,583.29)	\$ (144,200.23)	\$ (144,471.50)	\$ (918,489)

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
May 01, 2019 through October 31, 2019
SCHEDULE 2 B
DETAIL GAS COSTS BY SOURCE

FOR THE MONTH OF:	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Total
74 COMMODITY							
75							
76 Canadian Supply							
77 BP/Northeast Gas Market							
78 Nexen							
79 Sempra							
80 Total Canadian Commodity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
81							
82 Pipeline Transport							
83 ANE Union/Transgas PK							
84							
85 Dominion							
86 Iroquois							
87 Tennessee Gas Pipeline							
88 Honeoye							
89 National Fuel							
90 PNGTS							
91 Total TGP Transportation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
92							
93 Total Pipeline Transport	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
94							
95 City Gate Supply							
96 VPEM							
97							
98 Dracut Supply							
99							
100 PNGTS Commodity							
101 Emera							
102 Total PNGTS Supply							
103							
104 Other Commodity							
105 Andarko							
106 J Aron							
107 ANE							
108 BG \ TransCanada							
109 BP Energy							
110 Chevron							
111 Constellaion							
112 CITI							
113 Cargill							
114 Direct							
115 DTE							
116 Emera							
117 Enbridge							
118 Ray Energy							
119 Tenaska							
120 Southwest							
121 TC Energy							
122 Tennessee Gas Pipeline							
123 UGI							
124 Twin Eagle							
125 United							
126 VPEM							
127 Sub Total	\$ 995,193.37	\$ 516,569.15	\$ 493,402.39	\$ 370,326.82	\$ 452,189.35	\$ 848,107.68	\$ 3,599,768
128 Hedging (Gain)/Loss Peak PK	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
129 Hedging (Gain)/Loss Off Peak OP							
130 Total	\$ 995,193.37	\$ 516,569.15	\$ 493,402.39	\$ 370,326.82	\$ 452,189.35	\$ 848,107.68	\$ 3,599,768
131							
132							
133 Storage							
134 WITHDRAWALS Off Peak							
135 INJECTIONS							
136 Total Storage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
137 LNG							
138 LNG - REV							
139 LNG - P/S Plant							
140 Total LNG	\$ -	\$ -	\$ -	\$ -	\$ 142,500.00	\$ -	\$ 142,500
141 PROPANE							
142 Propane Sendout - P/S Plant							
143 ENERGNORTH Propane - Tank Farm							
144 TOTAL PROPANE	\$ 5,115.20	\$ 4,916.00	\$ -	\$ 2,231.97	\$ -	\$ 3,598.00	\$ 15,861
145							
146 FPO Mailing Costs Moved to Winter in December 2015							
147							
148 TOTAL COMMODITY	\$ 1,000,308.57	\$ 521,485.15	\$ 493,402.39	\$ 372,558.79	\$ 594,689.35	\$ 851,705.68	\$ 3,758,129
149	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
150 ICE Fees							
151							
152 OFF SYSTEM SALES COST							
153							
154 NON-FIRM COST							
155							
156 NET COMMODITY COST	\$ 1,002,383.57	\$ 523,560.15	\$ 494,439.89	\$ 373,596.29	\$ 594,689.35	\$ 852,134.50	\$ 3,840,803.75

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
May 01, 2019 through October 31, 2019
SCHEDULE 2 B
DETAIL GAS COSTS BY SOURCE

FOR THE MONTH OF:		May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19
157	Total Peak Demand PK	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
158	Total Peak Commodity PK	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
159	Total Peak Gas Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
160							
161	Off-Peak Demand OP	\$ 496,433	\$ 496,560	\$ 480,881	\$ 472,479	\$ 497,114	\$ 495,901
162	Off-Peak Commodity OP	\$ 1,002,384	\$ 523,560	\$ 494,440	\$ 373,596	\$ 594,689	\$ 852,135
163	Total Off Peak Gas Costs	\$ 1,498,817	\$ 1,020,120	\$ 975,321	\$ 846,076	\$ 1,091,804	\$ 1,348,035
164							
165	Firm Sendout Costs	\$ 1,498,817	\$ 1,020,120	\$ 975,321	\$ 846,076	\$ 1,091,804	\$ 1,348,035

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
May 01, 2019 through October 31, 2019
SCHEDULE 3
SUMMER COG GAS REVENUES BILLED

Schedule 3

FOR MONTH OF:	prior collections	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	subsequent collections	Total
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
1 VOLUMES BILLED									
2 RESIDENTIAL									
3 R-1	-	53,948	47,595	36,853	30,287	31,548	35,626	-	235,857
4 R-1 FPO	-	3,327	20	-	-	-	-	-	3,347
5 R-3	-	3,426,155	2,062,731	1,181,500	1,005,696	1,040,179	1,530,697	-	10,246,958
6 R-3 FPO	-	312,552	5,181	(349)	252	-	(191)	-	317,445
7 R-4	-	342,785	168,793	92,953	79,209	78,928	107,537	-	870,205
8 R-4 FPO	-	40,137	(155)	(675)	-	-	-	-	39,307
9 R-5	-	924	499	454	357	435	696	-	3,365
10 R-6	-	9,298	4,598	2,805	2,621	2,751	5,372	-	27,445
11 R-6 FPO	-	25	-	-	-	-	-	-	25
12 R-7	-	88	30	26	20	20	52	-	236
13 Total Residential	-	4,189,239	2,289,292	1,313,567	1,118,442	1,153,861	1,679,789	-	11,744,190
14 COMMERCIAL/INDUSTRIAL									
15 G41 - G43	-	2,156,467	1,080,394	486,836	419,336	386,066	713,646	-	5,242,745
16 G41 - G43 FPO	-	-	-	-	-	-	-	-	-
17 G51 - G63	-	609,958	552,413	471,486	475,282	462,454	491,964	-	3,063,557
18 G51 - G63 FPO	-	-	-	-	-	-	-	-	-
19 Total Comm/Industrial	-	2,766,425	1,632,807	958,322	894,618	848,520	1,205,610	-	8,306,302
20 Total Sales Volumes	-	6,955,664	3,922,099	2,271,889	2,013,060	2,002,381	2,885,399	-	20,050,492
21									
22 TRANSPORTATION									
23 G41 - G43	-	2,496,303	1,424,093	793,441	699,088	645,853	1,013,344	-	7,072,122
24 G51 - G63	-	2,735,540	2,843,834	2,746,707	2,826,538	2,769,898	2,854,653	-	16,777,170
25 Total Transportation	-	5,231,843	4,267,927	3,540,148	3,525,626	3,415,751	3,867,997	-	23,849,292
26 Total Volumes	-	12,187,507	8,190,026	5,812,037	5,538,686	5,418,132	6,753,396	-	43,899,784
27									
28 REVENUES									
29 Summer Gas Cost Billed (Acct 1920-1741)	\$ -	\$ 730,386	\$ 1,598,925	\$ 34,326	\$ 2,007,812	\$ 1,054,290	\$ 1,518,845	\$ -	\$ 6,944,585
30									
31 Less Occupant Billing	-	-	-	-	-	-	-	-	-
32									
33 Less Summer Proration/adj	-	-	-	-	-	-	-	-	-
34 Total Summer Gas Cost Billed (Acct 1920-1741)	\$ -	\$ 730,386	\$ 1,598,925	\$ 34,326	\$ 2,007,812	\$ 1,054,290	\$ 1,518,845	\$ -	\$ 6,944,585
35									
36 Winter Gas Costs Billed (Acct 1920-1740)	-	\$ 3,061,575	\$ 79,708	\$ 1,011,307	\$ (936,940)	\$ 11,780	\$ 19,396	\$ -	\$ 3,246,826
37 Winter Transportation Gas Costs Billed (Acct 1920-1740)	-	-	-	-	-	-	-	-	-
38 Total Winter Gas Cost Billed (Acct 1920-1740)	\$ -	\$ 3,061,575	\$ 79,708	\$ 1,011,307	\$ (936,940)	\$ 11,780	\$ 19,396	\$ -	\$ 3,246,826
39									
40 Total Gas Costs Billed	\$ -	\$ 3,791,961	\$ 1,678,634	\$ 1,045,633	\$ 1,070,872	\$ 1,066,071	\$ 1,538,241	\$ -	\$ 10,191,411
41									
42 Bad Debt Revenue Billed Summer (Acct 1920-1754)	\$ -	\$ 32,924	\$ 70,437	\$ 42,828	\$ 37,517	\$ 37,549	\$ 54,171	\$ -	\$ 275,426
43 Working Capital Gas Cost Billed Summer (1163-1424)	\$ -	\$ 2,032	\$ 4,461	\$ 2,629	\$ 2,349	\$ 2,371	\$ 3,432	\$ -	\$ 17,274
44									
45 Total Billings	\$ -	\$ 3,826,916	\$ 1,753,532	\$ 1,091,090	\$ 1,110,738	\$ 1,105,991	\$ 1,595,844	\$ -	\$ 10,484,111

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
SCHEDULE 3A
CALCULATION OF UNBILLED GAS COSTS (ACCRUED COG)

	FOR MONTH OF:	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Total
1	Firm Gas Purchases	4,381,040	2,340,200	1,874,320	2,077,370	2,302,920	4,954,030	17,929,880
2	Firm Sales	6,955,664	3,922,099	2,271,889	2,013,060	2,002,381	2,885,399	20,050,492
3	Company Use	12,965	6,893	4,240	4,056	4,375	7,900	40,429
4	Unaccounted For %	1.60%	1.60%	1.60%	1.60%	1.60%	1.60%	
5	Unaccounted For Gas	70,097	37,443	29,989	33,238	36,847	79,264	286,878

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
SCHEDULE 5
PEAK WORKING CAPITAL
Account 8840-2-0000-10-1163-1422 (formerly, 142.20)

	FOR THE MONTH OF: DAYS IN MONTH:	May-19 31	Jun-19 30	Jul-19 31	Aug-19 31	Sep-19 30	Oct-19 31	Total
1	BEGINNING BALANCE	\$ (42,277)	\$ (49,152)	\$ (0)	\$ (49,485)	\$ (50,866)	\$ (2)	\$ (42,277)
2								
3	Add: COST ALLOW	(436)	273	(22)	(1,043)	361	666	(201)
4								
5	Less: CUSTOMER BILLINGS	(6,226)	(159)	(88)	(104)	(30)	(51)	(6,658)
6	Adjustments		49,259	(49,259)	-	50,741	(50,741)	-
7	Estimated Unbilled	-	-	-	-	-	-	-
8	Reverse Prior Month Unbilled	-	-	-	-	-	-	-
9	Subtotal: Accrued Customer Billings	(6,226)	49,100	(49,347)	(104)	50,711	(50,792)	(6,658)
10								
11	ENDING BALANCE PRE INTEREST	\$ (48,939)	\$ 222	\$ (49,369)	\$ (50,632)	\$ 206	\$ (50,128)	\$ (49,136)
12								
13	MONTH'S AVERAGE BALANCE	(45,608)	(24,465)	(24,685)	(50,059)	(25,330)	(25,065)	
14								
15	INTEREST RATE	5.50%	5.50%	5.50%	5.25%	5.25%	5.00%	
16	INTEREST APPLIED	(213)	(222)	(115)	(234)	(208)	(106)	(1,098)
17	ENDING BALANCE	\$ (49,152)	\$ (0)	\$ (49,485)	\$ (50,866)	\$ (2)	\$ (50,234)	\$ (50,234)

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
SCHEDULE 5
OFF-PEAK WORKING CAPITAL
Account 8840-2-0000-10-1163-1424 (formerly, 142.40)

	FOR THE MONTH OF: DAYS IN MONTH	May-19 31	Jun-19 30	Jul-19 31	Aug-19 31	Sep-19 30	Oct-19 31	Total
1	BEGINNING BALANCE	\$ (19,441)	\$ (17,657)	\$ (255)	\$ (19,033)	\$ (18,846)	\$ (350)	(19,441)
2								
3	Add: ACTUAL COST	3,902	2,963	2,876	2,622	3,104	3,606	\$ 19,073
4								
5	Less: CUSTOMER BILLINGS	(2,032)	(4,461)	(2,629)	(2,349)	(2,371)	(3,432)	(17,274)
6	Adjustments	-	18,982	(18,982)	-	17,837	(17,837)	-
7	Estimated Unbilled	-	-	-	-	-	-	-
8	Reverse Prior Month Unbilled	-	-	-	-	-	-	-
9	Subtotal: Accrued Customer Billings	(2,032)	14,521	(21,610)	(2,349)	15,465	(21,269)	(17,274)
10								
11	ENDING BALANCE PRE INTEREST	\$ (17,571)	\$ (173)	\$ (18,989)	\$ (18,759)	\$ (276)	\$ (18,013)	\$ (17,641)
12								
13	MONTH'S AVERAGE BALANCE	(18,506)	(8,915)	(9,622)	(18,896)	(9,561)	(9,182)	
14								
15	INTEREST RATE	5.50%	5.50%	5.50%	5.25%	5.25%	5.00%	
16	INTEREST APPLIED	(86)	(82)	(43)	(86)	(74)	(38)	(410)
17	ENDING BALANCE	\$ (17,657)	\$ (255)	\$ (19,033)	\$ (18,846)	\$ (350)	\$ (18,051)	\$ (18,051)

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
SCHEDULE 6
OFF PEAK BAD DEBT AND WORKING CAPITAL COSTS

FOR MONTH OF:	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Total
1 Demand	\$ 496,433	\$ 496,560	\$ 480,881	\$ 472,479	\$ 497,114	\$ 495,901	\$ 2,939,369
2 Commodity	1,002,384	523,560	494,440	373,596	594,689	852,135	3,840,804
3 Total Gas Costs	\$ 1,498,817	\$ 1,020,120	\$ 975,321	\$ 846,076	\$ 1,091,804	\$ 1,348,035	\$ 6,780,173
4							
5 Lead Lag Days	0.0391	0.0391	0.0391	0.0391	0.0391	0.0391	
6 Prime Rate	5.50%	5.50%	5.50%	5.25%	5.25%	5.00%	
7							
8 Working Capital Rate	0.00196	0.00196	0.00196	0.00196	0.00196	0.00196	
9							
10 Working Capital Adjustment	\$ 964	\$ 964	\$ 964	\$ 964	\$ 964	\$ 964	\$ 5,784
11							
12 Total Working Capital Costs	\$ 3,902	\$ 2,963	\$ 2,876	\$ 2,622	\$ 3,104	\$ 3,606	\$ 19,073
13							
14 Prior Period (Over)/Under collection	\$ (3,240)	\$ (3,240)	\$ (3,240)	\$ (3,240)	\$ (3,240)	\$ (3,240)	\$ (19,441)
15							
16 Subtotal Gas Costs, Working Capital & Under Collection	\$ 1,499,478	\$ 1,019,843	\$ 974,957	\$ 845,458	\$ 1,091,668	\$ 1,348,401	\$ 6,779,805
17							
18 Bad Debt Rate	0.01750	0.01750	0.01750	0.01750	0.01750	0.01750	
19							
20 Bad Debt Adjustment	\$ 8,736	\$ 8,736	\$ 8,736	\$ 8,736	\$ 8,736	\$ 8,736	\$ 52,418
21							
22 Total Bad Debt Cost	\$ 34,977.20	\$ 26,583.59	\$ 25,798.07	\$ 23,531.85	\$ 27,840.52	\$ 32,333.36	\$ 171,065

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
SCHEDULE 6
PEAK BAD DEBT AND WORKING CAPITAL COSTS

FOR MONTH OF:	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Total
1 Demand	\$ 814,013	\$ 808,847	\$ 779,474	\$ 757,507	\$ 804,811	\$ 826,194	\$ 4,790,846
2 Commodity	(1,036,547)	(669,429)	(790,900)	(1,289,824)	(620,597)	(486,348)	(4,893,645)
3 Total Gas Costs	\$ (222,534)	\$ 139,419	\$ (11,426)	\$ (532,317)	\$ 184,214	\$ 339,846	\$ (102,800)
4							
5 Working Capital Rate	0.00196	0.00196	0.00196	0.00196	0.00196	0.00196	
6							
7 Working Capital Adjustment	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
8							
9 Total Working Capital Costs	\$ (436)	\$ 273	\$ (22)	\$ (1,043)	\$ 361	\$ 666	\$ (201)
10							
11 Prior Period (Over)/Under collection	\$ (7,046)	\$ (7,046)	\$ (7,046)	\$ (7,046)	\$ (7,046)	\$ (7,046)	\$ (42,277)
12							
13 Subtotal Gas Costs, Working Capital & Under Collection	\$ (230,017)	\$ 132,646	\$ (18,495)	\$ (540,407)	\$ 177,528	\$ 333,466	\$ (145,278)
14							
15 Bad Debt Rate	0.0175	0.0175	0.0175	0.0175	0.0175	0.0175	
16							
17 Bad Debt Adjustment	\$ 1,923	\$ 1,923	\$ 1,923	\$ 1,923	\$ 1,923	\$ 1,923	\$ 11,538
18							
19 Total Bad Debt Cost	\$ (2,102)	\$ 4,244	\$ 1,599	\$ (7,534)	\$ 5,030	\$ 7,759	\$ 8,995

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
SCHEDULE 7
WORKING CAPITAL & BAD DEBT REVENUE BILLED

FOR MONTH OF:		May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Total OffPeak
1	WORKING CAPITAL RATES	\$ 0.0020	\$ 0.0020	\$ 0.0020	\$ 0.0020	\$ 0.0020	\$ 0.0020	
2								
3	WORKING CAPITAL COLLECTED	\$ 2,032	\$ 4,461	\$ 2,629	\$ 2,349	\$ 2,371	\$ 3,432	\$ 17,274
4								
5	BAD DEBT RATES	\$ 0.0175	\$ 0.0175	\$ 0.0175	\$ 0.0175	\$ 0.0175	\$ 0.0175	
6								
7	BAD DEBT COLLECTED	\$ 32,924	\$ 70,437	\$ 42,828	\$ 37,517	\$ 37,549	\$ 54,171	\$ 275,426

LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP

Schedule 8
REDACTED

MAY 2019 THROUGH OCTOBER 2019
SCHEDULE 8
COMMODITY AND TRANSPORTED VOLUMES

FOR THE MONTH OF:	May-19			Jun-19			Jul-19			Aug-19			Sep-19			Oct-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 TENNESSEE COMMODITY																										
2 Gas Supply Purchases for Sendout																										
3 TGP/Supply Area Transport/Variable Costs																										
4 TOTAL TENNESSEE																										
5																										
6																										
7 City Gate Purchases for Sendout																										
8																										
9 Dracut Purchases for Sendout																										
10 Dracut Transport/Variable Costs																										
11																										
12 PNGTS Purchases for Sendout (Berlin)																										
13 PNGTS Transport/Variable Costs																										
14 TOTAL PNGTS																										
15																										
16																										
17 TGP/Niagara Purchases for Sendout																										
18 TGP/Niagara Transport/Variable Costs																										
19																										
20 Union/Transcanada Purchases for Sendout (A)																										
21 (Union/TCPL/IRO) Transport/Variable Costs																										
22 TGP (Un/TCPL/IRO Path) Transport/Variable Costs																										
23																										
24 Union/Transcanada Purchases for Sendout (B)																										
25 (Union/TCPL/PNGTS) Transport/Variable Costs																										
26 TGP (Un/TCPL/PNGTS Path) Transport/Variable Costs																										
27																										
28																										
29 LNG																										
30																										
31 LNG Vapor Sendout - P/S Plant																										
32 LNG Injections																										
33 Subtotal LNG																										
34																										
35																										
36																										
37																										
38 Storage																										
39 Storage Injection Purchase																										
40																										
41 Storage Withdrawals for Sendout																										
42 Storage Withdrawal /Transport costs																										
43																										
44																										
45 Boil-off																										
46																										
47 LNG			0			0			0			0			0			30		\$0 30						
48																										
49 LPG			0			0			0			0			0			0		\$0 -						
50																										
51 OBA																										
52																										
53																										
54																										
55																										
56 NET COMMODITY COST	\$987,847		438,104		\$478,362		234,020		\$318,310		187,432		\$335,329		207,737		\$380,328		230,292		\$896,795		495,403		\$3,396,970	1,792,988

1,792,988

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LIBERTY UTILITIES (ENERGY NORTH NATURAL GAS) CORP
D/B/A LIBERTY UTILITIES
SUMMER 2019 COST OF GAS RESULTS
SCHEDULE 9
MONTHLY PRIME RATES

MONTH	DATES	PRIME RATE	DAYS IN MONTH	WEIGHTED RATE
May-19	5/1/2019	5.50%	31	5.5000%
Jun-19	6/1/2019	5.50%	30	5.5000%
Jul-19	7/1/2019	5.50%	31	5.5000%
Aug-19	8/1/2019	5.25%	31	5.2500%
Sep-19	9/1/2019	5.25%	30	5.2500%
Oct-19	10/1/2019	5.00%	31	5.0000%