

LIBERTY UTILITIES - KEENE DIVISION
CALCULATION OF COST OF GAS RATE
SUPPLY / DEMAND BALANCE
WINTER PERIOD 2020 - 2021

	PRIOR	Actual Nov-20	Actual Dec-20	Actual Jan-21	Actual Feb-21	Actual Mar-21	Actual Apr-21	TOTAL
PROPANE COSTS								
1	PROPANE FIRM SENDOUT (therms)							
2	COMPANY USE (therms)							
3	TOTAL PROPANE SENDOUT (therms)							
4	COST PER THERM (WACOG)	\$0.8860	\$0.9308	\$0.9441	\$1.0463	\$1.0724	\$1.0172	
5	TOTAL CALCULATED COST OF PROPANE	\$107,805	\$174,363	\$214,927	\$207,206	\$164,311	\$92,754	\$961,166
6	PROPANE ADJUSTMENTS	\$0	\$0	(\$10,000)	(\$354)	\$0	\$0	(\$10,354)
7	TOTAL COST OF PROPANE	\$107,805	\$174,363	\$204,927	\$206,852	\$164,311	\$92,754	\$950,812
CNG COSTS								
8	CNG SENDOUT (therms)							
9	COMPANY USE (therms)							
10	TOTAL CNG SENDOUT (therms)							
11	COST PER THERM (WACOG)							
12	TOTAL CALCULATED COST OF CNG							
13	CNG DEMAND CHARGES							
14	CNG ADJUSTMENTS							
15	CNG ADJUSTMENTS -Demand Charges Aug 2017 - Sep 2019							
16	TOTAL CNG COSTS							
17	REMOVED CNG ADJUSTMENTS -Demand Charges Aug 2017 - Sep 2019							
18	REMOVED EXCESS CNG COSTS from Winter 2019-2020							
19	NET CNG COSTS PER ORDER NO. 26,428 in Docket No. DG 20-152							
20	ACCOUNTING ADJUSTMENT							
21	FPO PREMIUM	(\$672)	(\$1,899)	(\$2,513)	(\$2,882)	(\$2,131)	(\$1,971)	(\$12,068)
22	TOTAL COSTS OF GAS							
23	RETURN ON INVENTORY	\$1,496	\$1,496	\$1,496	\$1,496	\$1,496	\$1,496	\$8,978
REVENUES								
24	BILLED FPO SALES (therms) - Interim Rate	6,716	4,909	0	0	0	0	11,625
25	COG FPO RATE - Interim Rate	\$1,2300	\$1,2300	\$1,2300	\$1,2300	\$1,2300	\$1,2300	\$14,299
26	BILLED FPO SALES (therms)	0	11,834	17,830	21,340	15,269	9,429	
27	COG FPO RATE	\$0.0000	\$1,0277	\$1,0277	\$1,0277	\$1,0277	\$1,0277	\$77,799
28	BILLED FPO SALES (therms) - R-4 (GAP) -Interim Rate	204	174	0	0	0	0	378
29	COG FPO RATE	\$0.6765	\$0.6765	\$0.6765	\$0.6765	\$0.0000	\$0.0000	\$256
31	BILLED FPO SALES (therms) - R-4 (GAP)	0	447	733	1,701	0	0	2,881
32	COG FPO RATE	\$0.0000	\$0.5652	\$0.5652	\$0.5484	\$0.0000	\$0.0000	\$1,600
31	BILLED FPO SALES (therms) - R-4 (GAP)	0	0	0	3,884	0	1,107	4,991
31	COG FPO RATE	\$0.5460	\$0.5460	\$0.5460	\$0.5460	\$0.5460	\$0.5460	\$2,725
30	BILLED NON-FPO SALES PRIOR MONTH (therms)	0	0	58,329	66,700	0	24,298	149,327
31	COG NON-FPO RATE PRIOR MONTH	\$0.0000	\$0.0000	\$1.0253	\$0.9970	\$0.9928	\$0.9928	\$150,428
32	BILLED NON-FPO SALES CURRENT MONTH (therms)	62,286	188,285	145,706	164,856	166,818	77,361	805,312
33	COG NON-FPO RATE CURRENT MONTH	\$1,0253	\$1,0253	\$0.9970	\$0.9928	\$0.9928	\$1.2816	\$830,611
34	BILLED NON-FPO SALES CURRENT MONTH (therms) - R-4 (GAP)	1,211	3,459	1,514	(31)	4,060	1,779	11,992
35	COG NON-FPO RATE CURRENT MONTH	\$0.5639	\$0.5639	\$0.5639	\$0.5639	\$0.5460	\$0.7048	\$6,940
36	BILLED SALES OTHER PRIOR PERIODS	63	0	3,289	(1,862)	1,341	1,401	4,232
37	COG OTHER PRIOR PERIODS BLENDED RATE	\$0.5237	\$0.0000	\$0.5484	\$1.0813	\$0.8778	\$0.6876	\$1,964
38	TOTAL SALES	70,480	209,108	227,401	256,588	187,488	115,375	1,066,440
39	TOTAL BILLED REVENUES	\$72,976	\$213,569	\$226,469	\$253,123	\$184,703	\$135,781	\$1,086,621
40	UNBILLED REVENUES (NET)	\$69,145	\$7,897	\$8,481	(\$53,256)	(\$8,834)	(\$250)	\$23,182
41	TOTAL REVENUES	\$142,121	\$221,466	\$234,950	\$199,867	\$175,869	\$135,531	\$1,109,803
42	(OVER)/UNDER COLLECTION	(\$28,424)	(\$29,002)	(\$4,727)	\$58,612	\$2,088	(\$42,242)	(\$43,696)
43	INTEREST AMOUNT	\$206	\$189	\$210	\$312	\$491	\$482	\$1,890
44	FINAL (OVER)/UNDER COLLECTION	\$ 80,521	(\$28,218)	(\$28,813)	(\$4,517)	\$58,924	(\$41,761)	\$38,715

SUBJECT TO CONFIDENTIAL TREATMENT

LIBERTY UTILITIES - KEENE DIVISION
 CALCULATION OF PURCHASED GAS COSTS
 WINTER PERIOD 2020 - 2021

LINE NO.		Actual Nov-20	Actual Dec-20	Actual Jan-21	Actual Feb-21	Actual Mar-21	Actual Apr-21	TOTAL
1	TOTAL REQUIRED PURCHASES	[REDACTED]						
2	PROPANE PURCHASE STABILIZATION PLAN DELIVERIES							
3	THERMS	84,182	128,103	150,978	123,528	96,077	57,646	640,514
4	<u>RATES</u> - from Schedule D							
5	Contract Price	\$0.9011	\$0.9011	\$0.9011	\$0.9011	\$0.9011	\$0.9011	
6	Broker Fee	incl.	incl.	incl.	incl.	incl.	incl.	
7	Pipeline Fee	incl.	incl.	incl.	incl.	incl.	incl.	
8	PERC Fee	incl.	incl.	incl.	incl.	incl.	incl.	
9	Trucking Fee	incl.	incl.	incl.	incl.	incl.	incl.	
10	COST PER THERM	\$0.9011	\$0.9011	\$0.9011	\$0.9011	\$0.9011	\$0.9011	\$0.9011
11	TOTAL COST - Propane Purchase Stabilization Plan Deliveries	\$75,854	\$115,430	\$136,042	\$111,307	\$86,572	\$51,943	\$577,148
12	AMHERST STORAGE PROPANE DELIVERIES							
13	Therms	-	27,520	39,327	27,257	11,638	11,570	total allotted 118,800
14	<u>RATES</u> - from Schedule F							
15	WACOG Price	\$0.0000	\$0.7186	\$0.7186	\$0.7186	\$0.7186	\$0.7186	
16	Trucking Fee	\$0.0000	\$0.0650	\$0.0692	\$0.0688	\$0.0702	\$0.0702	
17	COST PER THERM	\$0.0000	\$0.7836	\$0.7878	\$0.7874	\$0.7888	\$0.7888	\$0.7771
18	TOTAL COST - Amherst Storage Propane Deliveries	\$0	\$21,565	\$30,982	\$21,462	\$9,180	\$9,126	\$92,315
19	CNG DELIVERIES	[REDACTED]						
20	THERMS	[REDACTED]						
21	RATE	[REDACTED]						
22	[REDACTED]	[REDACTED]						
23	[REDACTED]	[REDACTED]						
24	[REDACTED]	[REDACTED]						
25	[REDACTED]	[REDACTED]						
26	[REDACTED]	[REDACTED]						
27	SPOT PURCHASES	[REDACTED]						
28	THERMS	[REDACTED]						
29	From Schedule E	[REDACTED]						
30	COST PER THERM	\$1.0005	\$1.2249	\$1.4448	\$1.5670	\$1.3870	\$1.3675	\$1.3059
31	TOTAL COST - Spot Purchases	[REDACTED]						
32	OTHER ITEMS							
33	Storage ((inject) / withdraw)							-
34	TOTAL OTHER ITEMS	159,527	220,744	238,895	233,435	191,131	92,516	1,136,248
35	TOTAL	[REDACTED]						
36	THERMS FROM PROPANE	[REDACTED]						
37	COST	[REDACTED]						
38	THERMS FROM CNG	[REDACTED]						
39	COST	[REDACTED]						
40	COST PER THERM	\$1.0457	\$1.0240	\$1.0088	\$1.1325	\$1.1363	\$1.0863	\$1.0701
Comparison Actual CNG Cost Vs Actual Spot Propane		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	
[REDACTED]		[REDACTED]						
[REDACTED]		[REDACTED]						

LIBERTY UTILITIES - KEENE DIVISION

INVENTORY & WEIGHTED AVERAGE COST OF GAS CALCULATION
WINTER PERIOD 2020 - 2021

LINE NO.

		<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Rate</u> <u>Gal.</u>	<u>CNG therms</u>	<u>Cost</u>	<u>Total Sendout</u>	<u>Total Cost</u>	<u>Therm Rate</u>
1	August 2020 (Actual)									
2	Beginning Balance	51,735	\$44,533	\$0.8608	\$0.7876					
3	Purchases Received	131,267	\$100,417	\$0.7650	\$0.7000					
4	Total Available	183,002	\$144,951	\$0.7921	\$0.7248					
5	Less Sendout	33,056	\$26,183	\$0.7921	\$0.7248					
6	Ending Balance	149,946	\$118,768	\$0.7921	\$0.7248					
7	September 2020 (actual)									
8	Beginning Balance	149,946	\$118,768	\$0.7921	\$0.7248					
9	Purchases Received	59,967	\$46,040	\$0.7650	\$0.7000					
10	Total Available	209,913	\$164,808	\$0.7851	\$0.7184					
11	Less Sendout	42,093	\$33,048	\$0.7851	\$0.7184					
12	Ending Balance	167,820	\$131,760	\$0.7851	\$0.7184					
13	October 2020 (actual)									
14	Beginning Balance	167,820	\$131,760	\$0.7851	\$0.7184					
15	Purchases Received	64,729	\$63,162	\$0.8634	\$0.7900					
16	Total Available	232,549	\$194,921	\$0.8382	\$0.7670					
17	Less Sendout	74,266	\$62,249	\$0.8382	\$0.7670					
18	Ending Balance	158,283	\$132,672	\$0.8382	\$0.7670					
19	November 2020 (actual)									
20	Beginning Balance	158,283	\$132,672	\$0.8382	\$0.7670					
21	Purchases Received	139,147	\$130,844	\$0.9403	\$0.8604					
22	Total Available	297,430	\$263,516	\$0.8860	\$0.8107					
23	Less Sendout	121,453	\$107,605	\$0.8860	\$0.8107					\$1.012
24	Ending Balance	175,977	\$155,911	\$0.8860	\$0.8107					
25	December 2020 (Actual)									
26	Beginning Balance	175,977	\$155,911	\$0.8860	\$0.8107					
27	Purchases Received	161,274	\$157,991	\$0.9796	\$0.8964					
28	Total Available	337,251	\$313,903	\$0.9308	\$0.8517					
29	Less Sendout	187,332	\$174,363	\$0.9308	\$0.8517					\$1.016
30	Ending Balance	149,919	\$139,540	\$0.9308	\$0.8517					
31	January 2021 (Actual)									
32	Beginning Balance	149,919	\$139,540	\$0.9308	\$0.8517					
33	Purchases Received	162,798	\$155,682	\$0.9563	\$0.8750					
34	Total Available	312,717	\$295,221	\$0.9441	\$0.8638					
35	Less Sendout	217,072	\$204,927	\$0.9441	\$0.8638					\$1.031
36	Ending Balance	95,645	\$90,294	\$0.9441	\$0.8638					
37	February 2021 (Actual)									
38	Beginning Balance	95,645	\$90,294	\$0.9441	\$0.8638					
39	Purchases Received	173,178	\$190,982	\$1.1028	\$1.0091					
40	Total Available	268,823	\$281,277	\$1.0463	\$0.9574					
41	Less Sendout	198,032	\$207,206	\$1.0463	\$0.9574					\$1.130
42	Ending Balance	70,791	\$74,071	\$1.0463	\$0.9574					
43	March 2021 (Actual)									
44	Beginning Balance	70,791	\$74,071	\$1.0463	\$0.9574					
45	Purchases Received	151,663	\$164,489	\$1.0846	\$0.9924					
46	Total Available	222,454	\$238,559	\$1.0724	\$0.9813					
47	Less Sendout	153,218	\$164,311	\$1.0724	\$0.9813					\$1.152
48	Ending Balance	69,236	\$74,248	\$1.0724	\$0.9813					
49	April 2021 (actual)									
50	Beginning Balance	69,236	\$74,248	\$1.0724	\$0.9813					
51	Purchases Received	63,536	\$60,810	\$0.9571	\$0.8758					
52	Total Available	132,772	\$135,058	\$1.0172	\$0.9308					
53	Less Sendout	91,184	\$92,754	\$1.0172	\$0.9308					\$1.143
54	Ending Balance	41,588	\$42,304	\$1.0172	\$0.9308					
55	AVERAGE WINTER RATE - SENDOUT									
56						FPO Premium (Sch. B, Line 15)				(\$4,212)
57										

LIBERTY UTILITIES - KEENE DIVISION

INCREMENTAL COSTS CNG VS. SPOT PROPANE WINTER 2020-2021
ACTUALS

	Actual	Actual	Actual	Actual	Actual	Actual	
	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	
<u>CNG PURCHASES</u>							
CNG Volumes (Schedule C Reconciliation)							
CNG Costs (Schedule C Reconciliation)							
Total Cost per Actual CNG Costs (Schedule C Reconciliation)							
CNG Cost Per Therm Actual							
<u>SPOT PROPANE PURCHASES</u>							
Spot Propane Volumes (Schedule C Reconciliation)							
Total Costs Spot Propane							
Total Cost Spot Propane							
Spot Propane Cost Per Therm Actual	\$1.0005	\$1.2249	\$1.4448	\$1.5670	\$1.3870	\$1.3675	\$1.3059
CNG Volumes							
Price difference CNG vs Spot Propane							
Adj. for rounding							
Incremental Costs Propane							

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LIBERTY UTILITIES - KEENE DIVISION

CONVERSION OF COSTS - GALLONS TO THERMS
WINTER PERIOD 2020 - 2021

	(1)	(2)	(3)	(4)	(5)	(6)
			<u>VOLUMES</u>		<u>UNIT COST</u>	
	<u>UNIT</u>	<u>CONVERSION FACTOR</u>	<u>GALLONS</u>	<u>THERMS</u>	<u>PER GALLON</u>	<u>PER THERM</u>
GAS FROM INVENTORY	GALLONS	0.91502			\$0.8988	\$0.9823
GAS FROM CNG	THERMS	N/A	N/A		N/A	

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