CONVERSION OF GAS COSTS - GALLONS TO THERMS WINTER PERIOD 2019 - 2020

	(1)	(2)	(3)	(4)	(5)	(6)
			VOLU	JMES	UNIT (COST
	<u>UNIT</u>	CONVERSION FACTOR	GALLONS	THERMS	PER <u>GALLON</u>	PER THERM
GAS FROM INVENTORY	GALLONS	0.91502	1,321,331	1,209,044	\$0.9467	\$1.0347

CALCULATION OF COST OF GAS RATE SUPPLY / DEMAND BALANCE WINTER PERIOD 2019 - 2020

		PRIOR	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	TOTAL
	SENDOUT (THERMS)								
1	FIRM SENDOUT *		149,930	222,245	263,968	248,152	177,069	114,316	1,175,680
2	COMPANY USE		4,975	6,115	7,357	6,035	6,854	2,028	33,364
3	TOTAL SENDOUT		154,905	228,360	271,325	254,187	183,923	116,344	1,209,044
4	* UNACCTED FOR VOLS INCLUDED		1,338	1,984	2,356	2,215	1,581	1,020	10,494
	COSTS								
5	SENDOUT FROM ABOVE		154,905	228,360	271,325	254,187	183,923	116,344	1,209,044
6	COST/THERM FROM SCHEDULE F		\$0.9866	\$1.0183	\$1.0438	\$1.0483	\$1.0503	\$1.0548	\$1.0347
7	FPO PREMIUM		(\$402)	(\$622)	(\$803)	(\$946)	(\$879)	(\$625)	(\$4,277)
8	TOTAL COSTS		\$152,434	\$231,917	\$282,414	\$265,521	\$192,295	\$122,096	\$1,246,677
	REVENUES								
9	FIRM SALES (THERMS)		105,744	163,603	211,287	248,842	231,329	164,526	1,125,331
10	RATE/THERM PER TARIFF		\$0.9492	\$0.9492	\$0.9492	\$0.9492	\$0.9492	\$0.9492	\$0.9492
11	TOTAL REVENUES		\$100,373	\$155,293	\$200,555	\$236,203	\$219,579	\$156,169	\$1,068,172
12	(OVER)/UNDER COLLECTION		\$52,061	\$76,624	\$81,859	\$29,318	(\$27,284)	(\$34,073)	\$178,505
13	INTEREST FROM SCHEDULE H		(\$664)	(\$386)	(\$41)	\$202	\$208	\$74	(\$607)
14	FINAL (OVER)/UNDER COLLECTION	(\$177,896)	\$51,397	\$76,238	\$81,818	\$29,520	(\$27,076)	(\$33,999)	\$2
	TOTAL REVENUES INCLUDING FPO		\$100,775	\$155,915	\$201,358	\$237,149	\$220,458	\$156,794	\$1,072,449

CALCULATION OF PURCHASED GAS COSTS WINTER PERIOD 2019 - 2020

		13%	19%	22%	21%	15%	10%	
LINE NO.		Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	TOTAL
1	TOTAL SENDOUT (GALLONS)	169,291	249,568	296,524	277,794	201,004	127,149	1,321,331
2	CHANGE TO ENDING INVENTORY BALANCE (GALLONS)	-	-	-	-	-	-	-
3	TOTAL REQUIRED PURCHASES (GALLONS)	169,291	249,568	296,524	277,794	201,004	127,149	1,321,331
4	PROPANE PURCHASE STABILIZATION PLAN DELIVERIES							
5	GALLONS	91,726	140,000	164,138	135,172	106,205	62,759	700,000
6	RATES - from Schedule D							
7	Contract Price	\$0.9097	\$0.9097	\$0.9097	\$0.9097	\$0.9097	\$0.9097	
8 9	Broker Fee	incl.	incl.	incl.	incl.	incl.	incl.	
10	Pipeline Fee PERC Fee	incl. incl.	incl. incl.	incl. incl.	incl. incl.	incl. incl.	incl. incl.	
11	Trucking Fee	incl.	incl.	incl.	incl.	incl.	incl.	
12	COST PER GALLON	\$0.9097	\$0.9097	\$0.9097	\$0.9097	\$0.9097	\$0.9097	\$0.9097
13	TOTAL COST - Propane Purchase Stabilization Plan Deliveries	\$83,443	\$127,358	\$149,316	\$122,966	\$96,615	\$57,092	\$636,790
14	AMHERST STORAGE PROPANE DELIVERIES							
15	GALLONS	-	32,786	49,179	34,972	9,836	2,404	129,178
16	RATES - from Schedule F							
17	WACOG Price	\$0.0000	\$0.6107	\$0.6106	\$0.6106	\$0.6107	\$0.6103	
18	Trucking Fee	\$0.0000	\$0.0621	\$0.0621	\$0.0621	\$0.0621	\$0.0621	
19	COST PER GALLON	\$0.0000	\$0.6728	\$0.6727	\$0.6727	\$0.6728	\$0.6724	\$0.6727
20	TOTAL COST - Amherst Storage Propane Deliveries	\$0	\$22,059	\$33,083	\$23,526	\$6,618	\$1,617	\$86,901
21	CNG DELIVERIES							
22	GALLONS							
23	RATE							
24								
25								
26								
20								
27	SPOT PURCHASES							
28	GALLONS							
29	RATES - from Schedule E							
30	Mt. Belvieu Futures Price (08/27/19)	\$0.4656	\$0.4776	\$0.4894	\$0.4931	\$0.4794	\$0.4669	
31	Broker Fee	\$0.0100	\$0.0100	\$0.0100	\$0.0100	\$0.0100	\$0.0100	
32	Pipeline Fee	\$0.2362	\$0.2362	\$0.2362	\$0.2362	\$0.2362	\$0.2362	
33	PERC Fee	\$0.0050	\$0.0050	\$0.0050	\$0.0050	\$0.0050	\$0.0050	
34	Supplier Charge	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	
35	Trucking Fee	\$0.0939	\$0.0939	\$0.0939	\$0.0939	\$0.0939	\$0.0939	
36	COST PER GALLON	\$0.8608	\$0.8727	\$0.8845	\$0.8883	\$0.8745	\$0.8620	\$0.8742
37	TOTAL COST - Spot Purchases							
38	OTHER ITEMS							
39	Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40	Refund of Deferred Revenue Surcharge over collection	\$0	\$0	\$0	\$0	\$0	\$0	\$0
41	TOTAL OTHER ITEMS	\$0	\$0	\$0	\$0	\$0	\$0	\$0
42	TOTAL							
43	GALLONS	169,291	249,568	296,524	277,794	201,004	127,149	1,321,331
44	THERMS	154,905	228,360	271,325	254,187	183,923	116,344	1,209,044
45	COST	\$164,004	\$234,629	\$284,902	\$266,762	\$193,306	\$123,019	\$1,266,622
46	COST PER GALLON	\$0.9688	\$0.9401	\$0.9608	\$0.9603	\$0.9617	\$0.9675	\$0.9586
47	COST PER THERM	\$1.0587	\$1.0275	\$1.0500	\$1.0495	\$1.0510	\$1.0574	\$1.0476

THIS PAGE HAS BEEN REDACTED

PROPANE PURCHASING STABILIZATION PLAN **WINTER PERIOD 2019 - 2020**

Line

<u> 190.</u>
1
2
3
4
5
6
7
8
9
4.0

<u> 100.</u>								
1	Delivery		Hedg	ing Sched	lule & Volu	ıme (Gall	lons)	
2	Month	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Total
3	Nov-19	15,069	14,578	14,578	18,345	14,578	14,578	91,726
4	Dec-19	23,000	22,250	22,250	28,000	22,250	22,250	140,000
5	Jan-20	26,966	26,086	26,086	32,828	26,086	26,086	164,138
6	Feb-20	22,207	21,483	21,483	27,034	21,483	21,483	135,172
7	Mar-20	17,448	16,879	16,879	21,241	16,879	16,879	106,205
8	Apr-20	10,310	9,974	9,974	12,552	9,974	9,974	62,759
9	Total Volume	115,000	111,250	111,250	140,000	111,250	111,250	700,000
10	Monthly %	16.4%	15.9%	15.9%	20.0%	15.9%	15.9%	

11 Delivery Price per Gallon \$0.9031 \$0.9118 \$0.9209 \$0.9219 \$0.8981 \$0.8784

12 Total Cost \$82,839 \$127,654 \$151,154 \$124,613 \$95,378 \$55,125 \$636,763

13 Weighted Average Winter Contract Price per gallon

\$0.9097

14 Weighted Average Winter Contract Price per therm

\$0.9942

PROPANE SPOT MARKET PURCHASE COST ANALYSIS WINTER PERIOD 2019 - 2020

		(1)		(2) Broker		(3) Pipeline		(4) PERC		(5) Supplier		(6) Cost		(7) Trucking		(8)		(9)
		Mt. Belvieu		Fee		Rate		Fee		Charge		@ Selkirk		to Keene		\$ per Gal.		\$ per Therm
1	NOV	0.4656	+	0.0100	+	0.2362	+	0.0050	+	0.0500	=	0.7669	+	0.0939	=	0.8608	=	0.9407
2	DEC	0.4776	+	0.0100	+	0.2362	+	0.0050	+	0.0500	=	0.7788	+	0.0939	=	0.8727	=	0.9537
3	JAN	0.4894	+	0.0100	+	0.2362	+	0.0050	+	0.0500	=	0.7906	+	0.0939	=	0.8845	=	0.9666
4	FEB	0.4931	+	0.0100	+	0.2362	+	0.0050	+	0.0500	=	0.7944	+	0.0939	=	0.8883	=	0.9707
5	MAR	0.4794	+	0.0100	+	0.2362	+	0.0050	+	0.0500	=	0.7806	+	0.0939	=	0.8745	=	0.9557
6	APR	0.4669	+	0.0100	+	0.2362	+	0.0050	+	0.0500	=	0.7681	+	0.0939	=	0.8620	=	0.9421

- 1. Propane futures market quotations (cmegroup.com) on 9/5/19 close. See Appendix 1.
- 2. A generally accepted standard broker fee
- 3. Pipeline rate from Mt.Belvieu to Selkirk
- 4. Propane Education Research Council (propanecouncel.org)
- 5. A generally accepted standard supplier charge
- 6. Selkirk Cost all fees plus propane cost
- 7. Northern Gas Transport trucking rate including diesel fuel surcharge. See Appendix 3A & 3B.
- 8. Delivered Price per Gallon
- 9. Delivered Price per therm as converted using per gallon price / .91502

INVENTORY & WEIGHTED AVERAGE COST OF GAS CALCULATION WINTER PERIOD 2019 - 2020

									AMHERST STORAGE INVENT	ORY	129,800	GALLONS				
LINE NO.				_								_				
1	August 2019 (Actual)	Therms	Cost	Ra Therm	Gal.				August 2019 (Actual)	Therms	Cost	Ra Therm	Gal.			
2	Beginning Balance Purchases Received	38,354 65.000	\$31,323 \$48.308	\$0.8167 \$0.7432	\$0.7473 \$0.6800				Beginning Balance Purchases Received	4,839 113,931	\$4,293 \$74,969	\$0.8872 \$0.6580	\$0.8118 \$0.6021			
4	Total Available	103,354	\$79,631	\$0.7705	\$0.7050				Total Available	118,770	\$79,262	\$0.6674	\$0.6106			
5 6	Less Sendout Ending Balance	45,930 57,424	\$35,388 \$44,243	\$0.7705 \$0.7705	\$0.7050 \$0.7050				Less Sendout Ending Balance	0 118,770	\$0 \$79,262	\$0.0000 \$0.6674	\$0.0000 \$0.6106			
Ü	Ending Balance	37,424	ψ++,2+3	•	•				Ending balance	110,770	ψ13,202		• • • • • • • • • • • • • • • • • • • •			
7	September 2019 (Estimated)	Therms	Cost	Ra Therm	Gal.				September 2019 (Estimated)	Therms	Cost	Ra Therm	Gal.			
8	Beginning Balance	57,424	\$44,243 \$43.879	\$0.7705 \$0.7978	\$0.7050 \$0.7300				Beginning Balance Purchases Received	118,770 0	\$79,262 \$0	\$0.6674	\$0.6106 \$0.0000			
10	Purchases Received Total Available	55,000 112,424	\$88,122	\$0.7838	\$0.7300				Total Available	118,770	\$79,262	\$0.0000 \$0.6674	\$0.6106			
	Less Sendout Ending Balance	47,824 64,600	\$37,486 \$50,636	\$0.7838 \$0.7838	\$0.7172 \$0.7172				Less Sendout Ending Balance	0 118,770	\$0 \$79,262	\$0.0000 \$0.6674	\$0.0000 \$0.6106			
12	Lifting balance	04,000	φ30,030		•				Lifully balance	110,770	\$19,202					
13	October 2019 (Estimated)	Therms	Cost	Ra Therm	Gal.				October 2019 (Estimated)	Therms	Cost	Ra Therm	Gal.			
14	Beginning Balance	64,600	\$50,636	\$0.7838	\$0.7172				Beginning Balance	118,770	\$79,262	\$0.6674	\$0.6106			
15 16	Purchases Received Total Available	90,000 154.600	\$75,735 \$126,371	\$0.8415 \$0.8174	\$0.7700 \$0.7479				Purchases Received Total Available	0 118,770	\$0 \$79.262	\$0.0000 \$0.6674	\$0.0000 \$0.6106			
17	Less Sendout	88,604	\$72,425	\$0.8174	\$0.7479				Less Sendout	0	\$0	\$0.0000	\$0.0000			
18	Ending Balance	65,996	\$53,946	\$0.8174	\$0.7479				Ending Balance	118,770	\$79,262	\$0.6674	\$0.6106			
19	November 2019 (Forecasted)	Therms	Cost	Ra Therm	ate Gal.				November 2019 (Forecasted)	<u>Therms</u>	Cost	Ra Therm	ite Gal.			
20	Beginning Balance	65.996	\$53.946	\$0.8174	\$0.7479				Beginning Balance	118,770	\$79,262	\$0.6674	\$0.6106			
21	Purchases Received	154,905	\$164,004	\$1.0587	\$0.9688				Purchases Received	0	\$0	\$0.0000	\$0.0000			
22 23	Total Available Less Sendout	220,901	\$217,950 \$152,836	\$0.9866 \$0.9866	\$0.9028 \$0.9028	\$0.9866	154.905	\$152.836	Total Available Less Sendout	118,770	\$79,262 \$0	\$0.6674 \$0.0000	\$0.6106 \$0.0000		0	\$0
24	Ending Balance	65,996		\$0.9866	\$0.9028	ψ0.5000	134,303	ψ102,000	Ending Balance	118,770	\$79,262	\$0.6674	\$0.6106		Ü	ΨΟ
				Ra	ate							Ra	ate			
25	December 2019 (Forecasted)	Therms	Cost	Therm	Gal.				December 2019 (Forecasted)	Therms	Cost	Therm	Gal.			
26	Beginning Balance	65,996	\$65,114	\$0.9866	\$0.9028				Beginning Balance	118,770	\$79,262	\$0.6674	\$0.6106			
27	Purchases Received	228,360		\$1.0275	\$0.9401 \$0.9318				Purchases Received	0	\$0	\$0.0000	\$0.0000			
28 29	Total Available Less Sendout	294,356 228,360		\$1.0183 \$1.0183	\$0.9318	\$1.0183	228,360	\$232,539	Total Available Less Sendout	118,770 30,000	\$79,262 \$20,021	\$0.6674 \$0.6674	\$0.6106 \$0.6107		30,000	\$20,021
30	Ending Balance	65,996	\$67,204	\$1.0183	\$0.9318				Ending Balance	88,770	\$59,241	\$0.6674	\$0.6106			
		_		Ra						_		Ra				
31	January 2020 (Forecasted)	Therms	Cost	Therm	Gal.				January 2020 (Forecasted)	Therms	Cost	Therm	Gal.			
32 33	Beginning Balance Purchases Received	65,996 271,325	\$67,204 \$284,902	\$1.0183 \$1.0500	\$0.9318 \$0.9608				Beginning Balance Purchases Received	88,770 0	\$59,241 \$0	\$0.6674 \$0.0000	\$0.6106 \$0.0000			
	Total Available	337,321		\$1.0500	\$0.9551				Total Available	88,770	\$59,241	\$0.6674	\$0.6106			
35	Less Sendout	271,325	\$283,217	\$1.0438	\$0.9551	\$1.0438	271,325	\$283,217	Less Sendout	45,000	\$30,031	\$0.6674	\$0.6106		45,000	\$30,031
36	Ending Balance	65,996	\$68,889	\$1.0438	\$0.9551				Ending Balance	43,770	\$29,210	\$0.6674	\$0.6106			
37	February 2020 (Forecasted)	Therms	Cost	Ra Therm	<u>Gal.</u>				February 2020 (Forecasted)	Therms	Cost	Ra Therm	<u>Gal.</u>			
38	Beginning Balance	65,996	\$68,889	\$1.0438	\$0.9551				Beginning Balance	43,770	\$29,210	\$0.6674	\$0.6106			
39 40	Purchases Received Total Available	254,187 320,183		\$1.0495 \$1.0483	\$0.9603 \$0.9592				Purchases Received Total Available	0 43,770	\$0 \$29,210	\$0.0000 \$0.6674	\$0.0000 \$0.6106			
41	Less Sendout	254,187	\$266,467	\$1.0483	\$0.9592	\$1.0483	254,187	\$266,467	Less Sendout	32,000	\$21,355	\$0.6673	\$0.6106		32,000	\$21,355
42	Ending Balance	65,996	\$69,184	\$1.0483	\$0.9592				Ending Balance	11,770	\$7,855	\$0.6674	\$0.6107			
43	March 2020 (Forecasted)	Therms	Cost	Ra Therm	Gal.				March 2020 (Forecasted)	Therms	Cost	Ra Therm	<u>Gal.</u>			
44	Beginning Balance	65,996		\$1.0483	\$0.9592				Beginning Balance	11,770	\$7,855	\$0.6674	\$0.6107			
45 46	Purchases Received Total Available	183,923	\$193,306 \$262,490	\$1.0510 \$1.0503	\$0.9617 \$0.9610				Purchases Received Total Available	0 11,770	\$0 \$7,855	\$0.0000 \$0.6674	\$0.0000 \$0.6107			
47	Less Sendout	183,923	\$193,174	\$1.0503	\$0.9610	\$1.0503	183,923	\$193,174	Less Sendout	9,000	\$6,007	\$0.6674	\$0.6107		9,000	\$6,007
48	Ending Balance	65,996	\$69,316	\$1.0503	\$0.9611				Ending Balance	2,770	\$1,848	\$0.6672	\$0.6105			
				Ra								Ra				
49	April 2020 (Forecasted)	Therms	Cost	Therm	Gal.				April 2020 (Forecasted)	Therms	Cost	Therm	Gal.			
50	Beginning Balance	65,996		\$1.0503	\$0.9611				Beginning Balance	2,770	\$1,848	\$0.6672	\$0.6105			
51 52	Purchases Received Total Available	116,344	\$123,019 \$192,335	\$1.0574 \$1.0548	\$0.9675 \$0.9652				Purchases Received Total Available	0 2.770	\$0 \$1.848	\$0.0000 \$0.6672	\$0.0000 \$0.6105			
53	Less Sendout	116,344	\$122,721	\$1.0548	\$0.9652	\$1.0548	116,344	\$122,721	Less Sendout	2,200	\$1,468	\$0.6673	\$0.6106		2,200	\$1,468
54	Ending Balance	65,996		\$1.0548	\$0.9652				Ending Balance	570	\$380	\$0.6670	\$0.6103			
55	AVER	AGE WINT	TER RATE -	SENDOUT		\$1.0347	1,209,044	\$1,250,954	AVER	AGE WINT	ER RATE -	SENDOUT		\$0.6674	118,200	\$78,882
56					FPO F	Premium (Sch	n. B. Line 7\	(\$4.277)								
57						Sendout (Sch			_							

PRIOR PERIOD (OVER)/UNDER COLLECTION WINTER PERIOD 2019–2020

	COSTS	PF	RIOR		<u>Nov-18</u>		<u>Dec-18</u>		<u>Jan-19</u>		<u>Jan-19</u>	<u>Mar-19</u>		<u>Apr-19</u>		TOTAL
1	FIRM SENDOUT (therms)				169,142		210,561		255,145		236,474	192,264		110,440		1,174,026
2	COMPANY USE (therms)				4,975		6,115		7,357		6,035	6,854		2,028		33,364
3	TOTAL SENDOUT (therms)				174,117		216,676		262,502		242,509	199,118		112,468		1,207,390
4	COST PER THERM (WACOG)			\$	1.1987	\$	1.2170	\$	1.2430	\$	1.2469	\$ 1.2434	\$	1.1330	\$	1.2225
	PRODUCTION COSTS			\$	18,601	\$	16,858	\$	(10,908)	\$	10,992	\$ 19,584	\$	23,752	\$	78,879
6	PROPANE COST ADJUSTMENT			\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-
7	CNG DEMAND CHARGES			\$	47,917	\$	16,667	\$	16,667	\$	16,667	\$ 16,667	\$	-	\$	114,584
8	REMOVAL OF CNG DEMAND CHARGES			\$	(47,917)	\$	(16,667)	\$	(16,667)	\$	(16,667)	\$ (16,667)	\$	-	\$	(114,584)
9	ACCOUNTING ADJUSTMENT			\$	(138)	\$	138	\$	-	\$	-	\$ -	\$	13,974	\$	13,974
10	TOTAL PROPANE COSTS			\$	227,176	\$	280,687	\$	315,369	\$	313,375	\$ 267,168	\$	165,155	\$	1,568,930
	REVENUES															
	FPO SALES (therms) NON-FPO SALES (therms) TOTAL SALES				2,130 113,318 115,448		32,117 151,969 184,086		35,866 171,571 207,437		42,563 206,193 248,756	38,550 188,971 227,521		30,259 147,101 177,360		181,485 979,123 1,160,608
	FPO RATE PER THERM NON-FPO RATE PER THERM			\$	1.3743 1.3802	\$ \$	1.3743 1.4734		1.3743 1.5311		1.3743 1.5011	1.3743 1.4298	\$ \$	1.3743 1.2651		1.3743 1.4301
	FPO REVENUES NON-FPO REVENUES TOTAL BILLED REVENUES			\$ \$	2,927 142,378 145,305	\$ \$	44,138 211,826 255,964	\$ \$	49,291 254,236 303,526	\$ \$	58,494 315,070 373,564	\$ 52,979 278,693 331,672	\$ \$		\$ \$	249,415 1,394,722 1,644,137
	UNBILLED REVENUES (NET)			\$	197,614	\$	65,006	\$	58,366	\$	(29,286)	\$ (83,344)	\$	(91,132)	\$	117,224
	TOTAL REVENUES			\$	342,919	\$	320,970	\$	361,892	\$	344,279	\$ 248,328	\$	142,973	\$	1,761,361
19	(OVER)/UNDER COLLECTION			\$	(115,743)	\$	(40,283)	\$	(46,523)	\$	(30,904)	\$ 18,840	\$	22,182	\$	(192,432)
20	INTEREST AMOUNT			\$	577		\$395		\$278		\$170	\$240		\$363	\$	2,023
21	TOTAL (OVER)/UNDER COLLECTION	\$	25,999	\$	(115,166)	\$	(39,888)	\$	(46,246)	\$	(30,734)	\$ 19,080	\$	22,545	\$	(164,410)

INTEREST CALCULATION WINTER PERIOD 2019 - 2020

LINE NO.	MONTH	(1) BEG. OF MONTH BALANCE	(2) (OVER) UNDER COLLECT	(3) ADJUSTMENTS	(4) REFUNDS	(5) END OF MONTH BALANCE (COL.1+2+3)	(6) AVERAGE BALANCE COL. (COL. [1+4]/2)	(7) ANNUAL INTEREST RATE	(8) INTEREST AMOUNT	(9) MONTH END BAL. WITH INTEREST (COL. 4+7)
1	MAY 2019	(\$164,410)	\$0	\$113,835	\$0	(\$50,575)	(\$107,493)	5.50%	(\$493)	(\$51,068)
2	JUN	(51,068)	0	(90,428)	0	(\$141,496)	(96,282)	5.50%	(441	
3	JUL	(141,937)	0	(330)	0	(\$142,267)	(142,102)	5.25%	(622	(142,889)
4	AUG	(142,889)	0	(32,763)	0	(\$175,652)	(159,270)	5.25%	(697)	(176,349)
5	SEP	(176,349)	0	0	0	(\$176,349)	(176,349)	5.25%	(772	(177,121)
6	OCT	(177,121)	0	0	0	(\$177,121)	(177,121)	5.25%	(775	(177,896)
7	NOV	(177,896)	52,061	0	0	(\$125,835)	(151,865)	5.25%	(664)	(126,499)
8	DEC	(126,499)	76,624	0	0	(\$49,875)	(88,187)	5.25%	(386)	(50,261)
9	JAN 2020	(50,261)	81,859	0	0	\$31,598	(9,331)	5.25%	(41)	31,557
10	FEB	31,557	29,318	0	0	\$60,875	46,216	5.25%	202	61,077
11	MAR	61,077	(27,284)	0	0	\$33,793	47,435	5.25%	208	34,001
12	APR	34,001	(34,073)	0	0	(\$72)	16,965	5.25%	74	_ 2
13 14								_	(\$4,407)	<u>_</u>

¹⁵

= COL. 1, LINE 1 + COL. 3 LINES 1 TO 6 + COL. 8, LINES 1 TO 6 17

= (177,896) @ NOVEMBER 1, 2019 (TRANSFER TO SCHEDULE B, LINE 14) (\$9,686) 18 (164,410) (3,800)

PRIOR PERIOD BEG. BALANCE W/INTEREST @ NOVEMBER 1, 2019 = PRIOR PERIOD BEG. BAL. @ MAY 1, 2019 + INTEREST AMOUNT FOR MAY 2019 - OCTOBER 2019 16

						Liberty Utili Weather Normaliza	ties - Keene Divis						
Period	Actual Firm Sendout	Base Use	Heat Use	Actual Calendar Month Degree Days	Normal Calendar Month Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normalized Firm Sendout	Actual Company Use	Unaccounted For 0.90%	Total Firm Sendout
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
			(1) - (2)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)		(10 - 11) * 0.90%	(10) - (11) + (12)
Nov-18	174,117	40,821	133,296	947	801	146	140.76	(20,550)	112,746	153,567	4,975	1,338	149,930
Dec-18	216,676	40,821	175,855	1,124	1,186	(62)	156.45	9,700	185,555	226,376	6,115	1,984	222,245
Jan-19	262,502	40,821	221,681	1,337	1,376	(39)	165.80	6,466	228,148	268,968	7,357	2,356	263,968
Feb-19	242,509	40,821	201,688	1,087	1,138	(51)	185.55	9,463	211,151	251,972	6,035	2,215	248,152
Mar-19	199,118	40,821	158,298	1,104	987	117	143.39	(16,776)	141,522	182,342	6,854	1,581	177,069
Apr-19	112,468	40,821	71,647	577	600	(23)	124.17	2,856	74,503	115,324	2,028	1,020	114,316
Total	1,207,390	244,925	962,466	6,176	6,088	88		(8,841)	953,624	1,198,549	33,364	10,494	1,175,680

					•	- Keene Division					
	1		1	Weather No	rmalization - Sale	es (Therms) - Rat	e Residential		1	1	T
Period	Billing Cycle Customers	Billing Cycle Sales	Base Load	Heating Load	Billing Cycle Monthly Actual Degree Days	Billing Cycle Monthly Normal Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normal Firm Billing Cycle Therms
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(1) - (2)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)
Nov-18	881	24,789	6,971	17,819	611	532	79	29.16	(2,304)	15,515	22,485
Dec-18	888	46,124	6,971	39,154	973	841	132	40.24	(5,312)	33,842	40,812
Jan-19	890	51,959	6,971	44,989	1,168	1,193	(25)	38.52	963	45,951	52,922
Feb-19	893	62,447	6,971	55,477	1,287	1,289	(2)	43.11	86	55,563	62,533
Mar-19	896	55,595	6,971	48,625	1,090	1,109	(19)	44.61	848	49,472	56,443
Apr-19	897	43,500	6,971	36,530	1,018	926	92	35.88	(3,301)	33,228	40,199
Total		284,414	41,823	242,591	6,147	5,890	257	35.10	(9,020)	233,571	275,394

				Weather Nor	Liberty Utilities malization - Sale	- Keene Division s (Therms) - Rate					
Period	Billing Cycle Customers	Billing Cycle Sales	Base Load	Heating Load	Billing Cycle Monthly Actual Degree Days	Billing Cycle Monthly Normal Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normal Firm Billing Cycle Therms
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(1) - (3)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)
Nov-18	316	90,660	31,651	59,009	598	523	75	98.68	(7,401)	51,608	83,259
Dec-18	317	137,963	31,651	106,312	967	829	138	109.94	(15,172)	91,140	122,791
Jan-19	314	155,478	31,651	123,827	1,158	1,185	(27)	106.93	2,887	126,714	158,365
Feb-19	315	186,309	31,651	154,658	1,299	1,299	0	119.06	0	154,658	186,309
Mar-19	318	171,926	31,651	140,275	1,090	1,113	(23)	128.69	2,960	143,235	174,886
Apr-19	318	133,860	31,651	102,209	1,040	943	97	98.28	(9,533)	92,676	124,327
Total		876,196	189,906	686,290	6,152	5,892	260	100.99	(26,258)	660,032	849,937

Summary - Total Winter Season Billed Sales

	Actual 2018-2019	Normalized
November	115,449	105,744
December	184,087	163,603
January	207,437	211,287
February	248,756	248,842
March	227,521	231,329
April	177,360	164,526
Total	1,160,610	1,125,331

LIBERTY UTILITIES - KEENE DIVISION Typical Residential Heating Bill - Fixed Price Option Program Forecasted 2019-2020 Winter Period vs. Actual 2018-2019 Winter Period

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1								Winter							Summer	Total
2	12 MONTHS ENDED 04/2019	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Nov-Apr	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	May-Oct	Nov-Oct
3 4	Typical Usage - therms (1) Residential Heating R-3	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
5	Customer Charge 07/01/18 05/01/18	\$15.02	\$15.02	\$15.02	\$15.02	\$15.02	\$15.02	\$90.12	\$14.88	\$14.88	\$15.02	\$15.02	\$15.02	\$15.02	\$89.84	\$179.96
6 7	Delivery Charge: <u>Winter Summer</u> All therms @ \$0.5631 \$0.5580	\$21.96	\$38.85	\$45.61	\$58.00	\$50.12	\$37.16	\$251.70	\$19.53	\$10.04	\$5.07	\$3.94	\$4.50	\$6.76	\$49.84	\$301.54
8	Base Delivery Revenue Total	\$36.98	\$53.87	\$60.63	\$73.02	\$65.14	\$52.18	\$341.82	\$34.41	\$24.92	\$20.09	\$18.96	\$19.52	\$21.78	\$139.68	\$481.50
O	Dase Delivery Revenue Total	ψ30.30	ψ55.01	ψ00.03	ψ13.0 <u>2</u>	ψ03.1 4	ψ32.10	ψ3+1.0Z	ψ51	ΨZ-7.3Z	Ψ20.03	φ10.30	ψ13.32	Ψ21.70	\$133.00	ψ+01.50
9	Deferred Revenue Surcharge Rate	\$0.0000	\$0,0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
10	Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	COG Rates	\$1.3743	\$1.3743	\$1.3743	\$1.3743	\$1.3743	\$1.3743	\$1.3743	\$0.9995	\$1.0765	\$0.9752	\$0.7462	\$0.7800	\$1.2494	\$1.0066	
	Cost of Gas Total	\$53.60	\$94.83	\$111.32	\$141.55	\$122.31	\$90.70	\$614.31	\$34.98	\$19.38	\$8.78			\$14.99	\$89.59	\$703.90
		,						,								
13	Total Bill	\$91	\$149	\$172	\$215	\$187	\$143	\$956	\$69	\$44	\$29	\$24	\$26	\$37	\$229	\$1,185
14								Winter							Summer	Total
15	12 MONTHS ENDED 04/2020	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	May-Oct	Nov-Oct
16 17		39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
	Customer Charge 07/01/19 05/01/19 Delivery Charge: Winter Summer	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$91.20	\$15.02	\$15.02	\$15.20	\$15.20	\$15.20	\$15.20	\$90.84	\$182.04
20	All therms @ \$0.5569 \$0.5631	\$21.72	\$38.43	\$45.11	\$57.36	\$49.56	\$36.76	\$248.94	\$19.71	\$10.14	\$5.01	\$3.90	\$4.46	\$6.68	\$49.90	\$298.84
21	Base Delivery Revenue Total	\$36.92	\$53.63	\$60.31	\$72.56	\$64.76	\$51.96	\$340.14	\$34.73	\$25.16	\$20.21	\$19.10	\$19.66	\$21.88	\$140.74	\$480.88
22	Seasonal Base Delivery Difference from previous year	,				•		-\$1.68							\$1.06	-\$0.62
23	Seasonal Percent Change from previous year							-0.5%							0.8%	-0.1%
24	Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
25	Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
26	COG Rates	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$1,1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.8928	
27	Cost of Gas Total	\$37.80	\$66.87	\$78.51	\$99.83	\$86.26	\$63.97	\$433.24	\$38.75	\$18.11	\$7.97	\$4.95	\$3.87	\$5.81	\$79.46	\$512.70
							4									
	LDAC Rates	\$0.0635	\$0.0635	\$0.0635	\$0.0635	\$0.0635	\$0.0635	\$0.3112					\$0.0660	\$0.0660	\$0.0661	20105
29 30	LDAC Total Seasonal COG Difference from previous year	\$2.48	\$4.38	\$5.14	\$6.54	\$5.65	\$4.19	\$28.38 -\$181.07	\$2.31	\$1.19	\$0.59	\$0.46	\$0.53	\$0.79	\$5.87 -\$10.13	\$34.25 -\$191.20
31	Seasonal COG Difference from previous year Seasonal Percent Change from previous year							-\$181.07							-\$10.13	-\$191.20 -27.2%
32	Total Bill	\$77	\$125	\$144	\$179	\$157	\$120	\$802	\$76	\$44	\$29	\$25	\$24	\$28	\$226	\$1,028
33	Seasonal Total Bill Difference from previous year	Ŧ··	Ŧ:= -	Ŧ::·	Ţ U	Ŧ:-·	Ţ. .20	-\$154.37	7.7		+	+-0	+	+	-\$3.20	-\$157.57
34	Seasonal Percent Change from previous year							-16.1%							-1.4%	-13.3%
35	Seasonal Percent Change resulting from Base Rates (incl	. Def. Revenue S	urch.)					-0.2%							0.5%	-0.1%
36	Seasonal Percent Change resulting from COG							-18.9%							-4.4%	-16.1%
37	Seasonal Percent Change resulting from LDAC							3.0%							2.6%	2.9%

⁽¹⁾ Residential Heating Typical Usage: Residence using gas for heat, hot water and cooking.

LIBERTY UTILITIES - KEENE DIVISION Typical Residential Heating Bill - Non-Fixed Price Option Program Forecasted 2019-2020 Winter Period vs. Actual 2018-2019 Winter Period

April Apri	r		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Typical Usage - therms (1) 39 69 81 103 89 66 447 35 18 9 7 8 12 89 55 54 61 8 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	1	12 MONTHS ENDED 04/2019	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Winter Nov-Apr	Mav-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Summer Mav-Oct	Total Nov-Oct
6 Delivery Charge: Winter Summer All therms @ \$0.5631 \$0.560 \$21.96 \$38.85 \$45.61 \$58.00 \$50.12 \$37.16 \$251.70 \$19.53 \$10.04 \$5.07 \$3.34 \$4.50 \$5.76 \$48.84 \$301.50 \$1.0	3	Typical Usage - therms (1)								-							536
The first Revenue Surcharge Rate \$50.693 \$50.587 \$60.63 \$73.02 \$65.14 \$52.14 \$24.92 \$19.53 \$10.04 \$5.07 \$3.94 \$4.50 \$5.75 \$49.84 \$301.1 \$10.00 \$10.	5	Customer Charge 07/01/18 05/01/18	\$15.02	\$15.02	\$15.02	\$15.02	\$15.02	\$15.02	\$90.12	\$14.88	\$14.88	\$14.88	\$14.88	\$14.88	\$14.88	\$89.28	\$179.40
Poletred Revenue Surcharge Rate	6 7		\$21.96	\$38.85	\$45.61	\$58.00	\$50.12	\$37.16	\$251.70	\$19.53	\$10.04	\$5.07	\$3.94	\$4.50	\$6.76	\$49.84	\$301.54
Deferred Revenue Surcharge Total \$0.00	8	Base Delivery Revenue Total	\$36.98	\$53.87	\$60.63	\$73.02	\$65.14	\$52.18	\$341.82	\$34.41	\$24.92	\$19.95	\$18.82	\$19.38	\$21.64	\$139.12	\$480.94
Cog Rates \$1.3802 \$1.4734 \$1.5311 \$1.5011 \$1.4298 \$1.2651 \$1.4427 \$0.9995 \$1.0765 \$0.9752 \$0.7462 \$0.7800 \$1.2494 \$1.0066	9	Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Cost of Gas Total \$53.83	10	Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Bill \$91 \$156 \$185 \$228 \$192 \$136 \$987 \$69 \$44 \$29 \$24 \$26 \$37 \$229 \$1,21 14 15 12 MONTHS ENDED 04/2020																	
14	12	Cost of Gas Total	\$53.83	\$101.66	\$124.02	\$154.61	\$127.25	\$83.50	\$644.87	\$34.98	\$19.38	\$8.78	\$5.22	\$6.24	\$14.99	\$89.59	\$734.46
15 12 MONTHS ENDED 04/2020	13	Total Bill	\$91	\$156	\$185	\$228	\$192	\$136	\$987	\$69	\$44	\$29	\$24	\$26	\$37	\$229	\$1,215
15 12 MONTHS ENDED 04/2020	4.4							ı	\M/intox							Cummar	Total
18 Customer Charge		12 MONTHS ENDED 04/2020	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20		May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19		Nov-Oct
Delivery Charge: Winter Summer			39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
20 All therms © \$0.5569 \$0.5631 \$21.72 \$38.43 \$45.11 \$57.36 \$49.56 \$36.76 \$248.94 \$19.71 \$10.14 \$5.01 \$3.90 \$4.46 \$6.68 \$49.90 \$298.80 \$20.5569 \$0.5631 \$21.72 \$38.43 \$45.11 \$57.36 \$49.56 \$36.76 \$248.94 \$19.71 \$10.14 \$5.01 \$3.90 \$4.46 \$6.68 \$49.90 \$298.80 \$21.88 \$49.90 \$298.80 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$19.10 \$19.66 \$21.88 \$140.74 \$480.80 \$20.21 \$10.80 \$20			\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$91.20	\$15.02	\$15.02	\$15.20	\$15.20	\$15.20	\$15.20	\$90.84	\$182.04
22 Seasonal Base Delivery Difference from previous year			\$21.72	\$38.43	\$45.11	\$57.36	\$49.56	\$36.76	\$248.94	\$19.71	\$10.14	\$5.01	\$3.90	\$4.46	\$6.68	\$49.90	\$298.84
23 Seasonal Percent Change from previous year 24 Deferred Revenue Surcharge Rate \$0.0000 \$0.			\$36.92	\$53.63	\$60.31	\$72.56	\$64.76	\$51.96		\$34.73	\$25.16	\$20.21	\$19.10	\$19.66	\$21.88		\$480.88
25 Deferred Revenue Surcharge Total \$0.00																	-\$0.06 0.0%
25 Deferred Revenue Surcharge Total \$0.00	24	Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
27 Cost of Gas Total \$37.02 \$65.49 \$76.89 \$97.77 \$84.48 \$62.65 \$424.30 \$38.75 \$18.11 \$7.97 \$4.95 \$3.87 \$5.81 \$79.46 \$503.70 \$10.00 \$10.							\$0.00		\$0.00	\$0.00				\$0.00		\$0.00	\$0.00
28 LDAC Rates \$0.0635 \$0.0635 \$0.0635 \$0.0635 \$0.0635 \$0.0635 \$0.0635 \$0.0630 \$0.0660 \$0.0660 \$0.0660 \$0.0660 \$0.0660 \$0.0660 \$0.0661																	
	27	Cost of Gas Total	\$37.02	\$65.49	\$76.89	\$97.77	\$84.48	\$62.65	\$424.30	\$38.75	\$18.11	\$7.97	\$4.95	\$3.87	\$5.81	\$79.46	\$503.76
	28	LDAC Rates	\$0.0635	\$0.0635	\$0.0635	\$0.0635	\$0.0635	\$0.0635	\$0.3112	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0661	
	29	LDAC Total	\$2.48	\$4.38	\$5.14	\$6.54	\$5.65	\$4.19	\$28.38	\$2.31	\$1.19	\$0.59	\$0.46	\$0.53	\$0.79	\$5.87	\$34.25
												·					-\$230.70
31 Seasonal Percent Change from previous year -34.2% -31.4	31	Seasonal Percent Change from previous year							-34.2%							-11.3%	-31.4%
32 Total Bill \$76 \$124 \$142 \$177 \$155 \$119 \$793 \$76 \$44 \$29 \$25 \$24 \$28 \$226 \$1,01	32	Total Bill	\$76	\$124	\$142	\$177	\$155	\$11 9	\$793	\$76	\$44	\$29	\$25	\$24	\$28	\$226	\$1,019
																	-\$196.51
		Seasonal Percent Change from previous year -19.6%											-16.2%				
			ı. Det. Keveni İ	ie Surch.)													0.0% -19.0%
																	2.8%

⁽¹⁾ Residential Heating Typical Usage: Residence using gas for heat, hot water and cooking.

LIBERTY UTILITIES - KEENE DIVISION Typical Commercial Bill - Fixed Price Option Program Forecasted 2019-2020 Winter Period vs. Actual 2018-2019 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1 2 12 MONTHS ENDED 04/2019	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Winter Nov-Apr	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Summer May-Oct	Total Nov-Oct
3 Typical Usage - therms 4 Commercial G-41	133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
5 Customer Charge 07/01/18 05/01/18 6 Delivery Charge: Winter Summer	\$55.68	\$55.68	\$55.68	\$55.68	\$55.68	\$55.68	\$334.08	\$56.07	\$56.07	\$56.58	\$56.58	\$56.58	\$56.58	\$338.46	\$672.54
7 First 100 therms @ \$0.4566 \$0.4639 8 Over 100 therms @ \$0.3067 \$0.3116	\$45.66 \$10.12	\$45.66 \$45.70	\$45.66 \$63.49	\$45.66 \$92.93	\$45.66 \$81.89	\$45.66 \$49.69	\$273.96 \$343.82	\$9.28 \$33.65	\$9.28 \$11.22	\$9.13 \$0.61	\$7.31 \$0.00	\$8.22 \$0.00	\$9.13 \$1.84	\$52.35 \$47.32	\$326.3 ⁴ \$391.1 ⁴
9 Base Delivery Revenue Total	\$111.46	\$147.04	\$164.83	\$194.27	\$183.23	\$151.03	\$951.86	\$99.00	\$76.57	\$66.32	\$63.89	\$64.80	\$67.55	\$438.13	\$1,389.99
10 Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0,0000	\$0.0000	\$0,0000	\$0.0000		\$0.0000	\$0.0000	\$0,0000	\$0.0000	\$0.0000	\$0.0000		
11 Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12 COG Rates	\$1.3743	\$1.3743	\$1.3743	\$1.3743	\$1.3743	\$1.3743	\$1.3743	\$0.9995	\$1.0765	\$0.9752	\$0.7462	\$0.7800	\$1.2494	\$1.0080	
13 Cost of Gas Total	\$182.78	\$342.20	\$421.91	\$553.84	\$504.37	\$360.07	\$2,365.17	\$127.94	\$60.28	\$21.45	\$11.94	\$14.04	\$32.48	\$268.13	\$2,633.30
14 Total Bill	\$294	\$489	\$587	\$748	\$688	\$511	\$3,317	\$227	\$137	\$88	\$76	\$79	\$100	\$706	\$4,023
15							Winter							Summer	Total
16 12 MONTHS ENDED 04/2020	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	May-Oct	Nov-Oct
Typical Usage - therms Commercial G-41	133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
19 Customer Charge 07/01/19 05/01/19 20 Delivery Charge: Winter Summer	\$56.36	\$56.36	\$56.36	\$56.36	\$56.36	\$56.36	\$338.16	\$55.68	\$55.68	\$56.36	\$56.36	\$56.36	\$56.36	\$336.80	\$674.96
21 First 100 therms @ \$0.4621 \$0.4566	\$46.21	\$46.21	\$46.21	\$46.21	\$46.21	\$46.21	\$277.26	\$9.13	\$9.13	\$9.24	\$7.39	\$8.32	\$9.24	\$52.45	\$329.7
22 Over 100 therms @ \$0.3104 \$0.3067	\$10.24	\$46.25	\$64.25	\$94.05	\$82.88	\$50.28	\$347.96	\$33.12	\$11.04	\$0.62	\$0.00	\$0.00	\$1.86	\$46.64	\$394.60
23 Base Delivery Revenue Total	\$112.81	\$148.82	\$166.82	\$196.62	\$185.45	\$152.85	\$963.38	\$97.93	\$75.85	\$66.22	\$63.75	\$64.68	\$67.46	\$435.89	\$1,399.27
24 Seasonal Base Delivery Difference from previous year 25 Seasonal Percent Change from previous year							\$11.52 1.2%							-\$2.24 -0.5%	\$9.28 0.7%
26 Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
27 Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
28 COG Rates	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$1.1071	\$1,0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.9405	
29 Cost of Gas Total	\$128.90	\$241.33	\$297.54	\$390.59	\$355.70	\$253.93	\$1,667.99	\$141.71	\$56.35	\$19.48	\$11.31	\$8.72	\$12.59	\$250.16	\$1,918.1
30 LDAC Rates	\$0.0494	\$0.0494	\$0.0494	\$0.0494	\$0.0494	\$0.0494	\$0.0494	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	
31 LDAC Total	\$6.57	\$12.30	\$15.17	\$19.91	\$18.13	\$12.94	\$85.02	\$9.69	\$4.24	\$1.67	\$1.21	\$1.36	\$1.97	\$20.14	\$105.16
32 Seasonal COG Difference from previous year 33 Seasonal Percent Change from previous year							-\$697.18 -29.5%							-\$17.97 -6.7%	-\$715.15 -27.2%
34 Total Bill	\$248	\$402	\$480	\$607	\$559	\$420	\$2,716	\$249	\$136	\$87	\$76	\$75	\$82	\$706	\$3,423
35 Seasonal Total Bill Difference from previous year		-					-\$600.64							-\$0.07	-\$600.7
36 Seasonal Percent Change from previous year	D	,					-18.1%							0.0%	-14.9%
37 Seasonal Percent Change resulting from Base Rates (incl. Def. 38 Seasonal Percent Change resulting from COG	Revenue Surch	.)					0.3% -21.0%							-0.3% -2.5%	0.2% -17.8%
39 Seasonal Percent Change resulting from LDAC							2.6%							2.9%	2.69

LIBERTY UTILITIES - KEENE DIVISION Typical Commercial Bill - Non-Fixed Price Option Program Forecasted 2019-2020 Winter Period vs. Actual 2018-2019 Winter Period

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1 2	12 MONTHS ENDED 04/2019	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Winter Nov-Apr	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Summer May-Oct	Total Nov-Oct
3 4	Typical Usage - therms Commercial G-41	133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
-	Customer Charge Delivery Charge: Winter Summer	\$55.68	\$55.68	\$55.68	\$55.68	\$55.68	\$55.68	\$334.08	\$56.07	\$56.07	\$56.58	\$56.58	\$56.58	\$56.58	\$338.46	\$672.54
7 8	First 100 therms @ \$0.4566 \$0.4639 Over 100 therms @ \$0.3067 \$0.3116	\$45.66 \$10.12	\$45.66 \$45.70	\$45.66 \$63.49	\$45.66 \$92.93	\$45.66 \$81.89	\$45.66 \$49.69	\$273.96 \$343.82	\$9.28 \$33.65	\$9.28 \$11.22	\$9.13 \$0.61	\$7.31 \$0.00	\$8.22 \$0.00	\$9.13 \$1.84	\$52.35 \$47.32	\$326.31 \$391.14
9	Base Delivery Revenue Total	\$111.46	\$147.04	\$164.83	\$194.27	\$183.23	\$151.03	\$951.86	\$99.00	\$76.57	\$66.32	\$63.89	\$64.80	\$67.55	\$438.13	\$1,389.99
	Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
11	Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
-	COG Rates Cost of Gas Total	\$1.3802 \$183.57	\$1.4734 \$366.88	\$1.5311 \$470.05	\$1.5011 \$604.94	\$1.4298 \$524.74	\$1.2651 \$331.46	\$1.4420 \$2.481.64	\$0.9995 \$127.94	\$1.0765 \$60.28	\$0.9752 \$21.45	\$0.7462 \$11.94	\$0.7800 \$14.04	\$1.2494 \$32.48	\$1.0080 \$268.13	\$2,749,77
		•							,	,	•	•			•	
14	Total Bill	\$295	\$514	\$635	\$799	\$708	\$482	\$3,434	\$227	\$137	\$88	\$76	\$79	\$100	\$706	\$4,140
45								Winter							0	Total
15 16	12 MONTHS ENDED 04/2020	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Nov-Oct
17 18	Typical Usage - therms Commercial G-41	133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
	Customer Charge Delivery Charge: Winter Summer	\$56.58	\$56.58	\$56.58	\$56.58	\$56.58	\$56.58	\$339.48	\$55.68	\$55.68	\$56.36	\$56.36	\$56.36	\$56.36	\$336.80	\$676.28
21	First 100 therms @ \$0.4621 \$0.4566	\$46.21	\$46.21	\$46.21	\$46.21	\$46.21	\$46.21	\$277.26	\$9.13	\$9.13	\$9.24	\$7.39	\$8.32	\$9.24	\$52.45	\$329.71
22	Over 100 therms @ \$0.3104 \$0.3067	\$10.24	\$31.04	\$31.04	\$31.04	\$31.04	\$31.04	\$165.44	\$33.12	\$11.04	\$0.62	\$0.00	\$0.00	\$1.86	\$46.64	\$212.08
	Base Delivery Revenue Total	\$113.03	\$133.83	\$133.83	\$133.83	\$133.83	\$133.83	\$782.18	\$97.93	\$75.85	\$66.22	\$63.75	\$64.68	\$67.46	\$435.89	\$1,218.07
	Seasonal Base Delivery Difference from previous year Seasonal Percent Change from previous year							-\$169.68 -17.8%							-\$2.24 -0.5%	-\$171.92 -12.4%
	Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
27	Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
28	COG Rates	\$0.9492	\$0.9492	\$0.9492	\$0.9492	\$0.9492	\$0.9492	\$0.9492	\$1.1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.9405	
29	Cost of Gas Total	\$126.24	\$236.35	\$291.40	\$382.53	\$348.36	\$248.69	\$1,633.57	\$141.71	\$56.35	\$19.48	\$11.31	\$8.72	\$12.59	\$250.16	\$1,883.73
30	LDAC Rates	\$0.0494	\$0.0494	\$0.0494	\$0.0494	\$0.0494	\$0.0494	\$0.0494	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0529
	LDAC Total	\$6.57	\$12.30	\$15.17	\$19.91	\$18.13	\$12.94	\$85.02	\$9.69	\$4.24	\$1.67	\$1.21	\$1.36	\$1.97	\$20.14	\$105.16
	Seasonal COG Difference from previous year Seasonal Percent Change from previous year							-\$848.07 -34.2%							-\$17.97 -6.7%	-\$866.04 -31.5%
	Total Bill	\$246	\$382	\$440	\$536	\$500	\$395	\$2,501	\$249	\$136	\$87	\$76	\$75	\$82	\$706	\$3,207
	Seasonal Total Bill Difference from previous year							-\$932.73							-\$0.07	-\$932.80
	Seasonal Percent Change from previous year Seasonal Percent Change resulting from Base Rates (incl	Dof Boyer:	o Curob \					-27.2% -4.9%							0.0% -0.3%	-22.5% -4.2%
	Seasonal Percent Change resulting from Base Rates (Incl Seasonal Percent Change resulting from COG	. Dei. Kevenu	e outch.)					-4.9% -24.7%							-0.3% -2.5%	-4.2% -20.9%
	Seasonal Percent Change resulting from LDAC							2.5%							2.9%	2.5%

LIBERTY UTILITIES - KEENE DIVISION													
			Histori	cal COG Comparis	on - FPO vs. No	n-FPO Bill							
			Percent			Typical	Average	Typical	Cost/(Savings)				
Winter	FPO	Amount	Participation	Actual	Premium	Residential	Non-FPO	Residential	to FPO				
Period	Rate	of Premium	(therms)	FPO Volumes	Revenue	FPO bill	Rate	Non-FPO bill	Customers				
2018-2019	\$1.3743	(\$0.01)	15.64%	181,485	-\$1,071	\$614	\$1.4301	\$639	(\$25)				
2017-2018	\$1.2408	\$0.02	20.14%	221,383	\$4,428	\$527	\$1.4053	\$597	(\$70)				
2016-2017	\$1.5352	\$0.02	19.32%	201,959	\$4,039	\$863	\$1.5247	\$900	(\$37)				
2015-2016	\$0.8988	\$0.02	24.54%	224,981	\$4,500	\$480	\$0.6620	\$354	\$126				
2014-2015	\$1.7269	\$0.02	32.16%	384,297	\$7,686	\$929	\$1.4213	\$765	\$164				
2013-2014	\$1.6985	\$0.02	17.94%	206,379	\$4,128	\$914	\$2.0092	\$1,081	(\$167)				
2012-2013	\$1.5217	\$0.02	20.81%	207,298	\$4,146	\$819	\$1.5002	\$807	\$12				
2011-2012	\$2.2357	\$0.02	18.21%	152,560	\$3,051	\$3,051 \$1,203 \$2.1253		\$1,143	\$59				
2010-2011	FPO not off	fered due to Sel	kirk terminal en	nbargo									
2009-2010	\$1.3402	\$0.02	17.12%	163,486	\$3,270	\$721	\$1.4900	\$802	(\$81)				
2008-2009	\$2.2408	\$0.02	21.08%	205,970	\$4,119	\$1,206	\$1.7347	\$933	\$272				
2007-2008	\$1.5212	\$0.02	28.01%	266,419	\$5,328	\$818	\$1.7646	\$949	(\$131)				
2006-2007	\$1.4741	\$0.02	21.86%	206,686	\$4,134	\$793	\$1.5397	\$828	(\$35)				
2005-2006	\$1.5260	\$0.02	42.91%	348,849	\$6,977	\$821	\$1.3742	\$739	\$82				
2004-2005	\$1.2323	n/a	39.44%	340,315	n/a	\$663	\$1.2647	\$680	(\$17)				
2003-2004	\$0.8877	n/a	38.78%	316,300	n/a	\$478	\$1.0325	\$555	(\$78)				
Average						\$790		\$785	\$5				