Docket No. DG 20-152 Exhibit 2



STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Docket No. DG 20-XXX

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities Winter 2020/2021 Cost of Gas Filing for EnergyNorth's Keene Division

DIRECT TESTIMONY

OF

DEBORAH M. GILBERTSON, CATHERINE A. McNAMARA, AND DAVID B. SIMEK

September 17, 2020

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1 I. <u>INTRODUCTION</u>

2	Q.	Please state your full name, business address, and positions.		
3	A.	(DG) My name is Deborah M. Gilbertson. My business address is 15 Buttrick Road,		
4		Londonderry, New Hampshire. My title is Senior Manager, Energy Procurement.		
5		(CM) My name is Catherine A. McNamara. My business address is 15 Buttrick Road,		
6		Londonderry, New Hampshire. My title is Rates Analyst II, Rates and Regulatory		
7		Affairs.		
8		(DS) My name is David B. Simek. My business address is 15 Buttrick Road,		
9		Londonderry, New Hampshire. My title is Manager, Rates and Regulatory Affairs.		
10	Q.	By whom are you employed?		
11	A.	We are employed by Liberty Utilities Service Corp. ("Liberty"), which provides services		
12		to Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities		
13		("EnergyNorth" or "the Company") and Liberty Utilities (Granite State Electric) Corp.		
14		d/b/a Liberty Utilities.		
15	Q.	On whose behalf are you testifying?		
16	А.	We are testifying on behalf of EnergyNorth's Keene Division.		
17	Q.	Ms. Gilbertson, please describe your educational background, and your business		
18		and professional experience.		
19	A.	I graduated from Bentley College in Waltham, Massachusetts, in 1996 with a Bachelor of		
20		Science in Management. In 1997, I was hired by Texas Ohio Gas where I was employed		

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1		as a Transportation Analyst. In 1999, I joined Reliant Energy, located in Burlington,	
2		Massachusetts, as an Operations Analyst. From 2000 to 2003, I was employed by Smart	
3		Energy as a Senior Energy Analyst. I joined Keyspan Energy Trading Services in 2004	
4		as a Senior Resource Management Analyst following which I was employed by Nation	
5		Grid from 2008 through 2011 as a Lead Analyst in the Project Management Office. In	
6		2011, I was hired by Liberty as a Natural Gas Scheduler and was promoted to Manager of	
7		Retail Choice in 2012. In October 2016, I was promoted to Senior Manager of Energy	
8		Procurement. In this capacity, I provide gas procurement services to EnergyNorth.	
9	Q.	Ms. McNamara, please describe your educational background, and your business	
9 10	Q.	Ms. McNamara, please describe your educational background, and your business and professional experience.	
	Q. A.		
10	-	and professional experience.	
10 11	-	and professional experience. I graduated from the University of Massachusetts, Boston, in 1993 with a Bachelor of	
10 11 12	-	and professional experience.I graduated from the University of Massachusetts, Boston, in 1993 with a Bachelor ofScience in Management with a concentration in Accounting. In November 2017, I joined	
10 11 12 13	-	and professional experience. I graduated from the University of Massachusetts, Boston, in 1993 with a Bachelor of Science in Management with a concentration in Accounting. In November 2017, I joined Liberty as an Analyst in Rates and Regulatory Affairs. Prior to my employment at	
10 11 12 13 14	-	and professional experience. I graduated from the University of Massachusetts, Boston, in 1993 with a Bachelor of Science in Management with a concentration in Accounting. In November 2017, I joined Liberty as an Analyst in Rates and Regulatory Affairs. Prior to my employment at Liberty, I was employed by Eversource as a Senior Analyst in the Investment Planning	
 10 11 12 13 14 15 	-	and professional experience. I graduated from the University of Massachusetts, Boston, in 1993 with a Bachelor of Science in Management with a concentration in Accounting. In November 2017, I joined Liberty as an Analyst in Rates and Regulatory Affairs. Prior to my employment at Liberty, I was employed by Eversource as a Senior Analyst in the Investment Planning group from 2015 to 2017. From 2008 to 2015, I was a Supervisor in the Plant	

1	Q.	Mr. Simek, please describe your educational background, and your business and			
2		professional experience.			
3	A.	I graduated from Ferris State University in 1993 with a Bachelor of Science in Finance. I			
4		received a Master's of Science in Finance from Walsh College in 2000. I also received a			
5		Master's of Business Administration from Walsh College in 2001. In 2006, earned a			
6		Graduate Certificate in Power Systems Management from Worcester Polytechnic			
7		Institute. In August 2013, I joined Liberty as a Utility Analyst and I was promoted to			
8		Manager, Rates and Regulatory Affairs in August 2017. Prior to my employment at			
9		Liberty, I was employed by NSTAR Electric & Gas ("NSTAR") as a Senior Analyst in			
10		Energy Supply from 2008 to 2012. Prior to my position in Energy Supply at NSTAR, I			
11		was a Senior Financial Analyst with the NSTAR Investment Planning group from 2004			
12		to 2008.			
13	Q.	Ms. Gilbertson, Ms. McNamara, and Mr. Simek, have you previously testified in			
14		regulatory proceedings before the New Hampshire Public Utilities Commission (the			
15		"Commission")?			
16	A.	Yes, we have.			
17	Q.	What is the purpose of your testimony?			
18	A.	The purpose of our testimony is to explain the Company's proposed cost of gas rates for			
19		its Keene Division for the 2020/2021 winter (peak) period to be effective beginning			
20		November 1, 2020. Our testimony will also address bill comparisons and other items			
21		related to the winter period.			

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1 II. WINTER 2020/2021 COST OF GAS FACTOR

2 Q. What is the proposed firm winter cost of gas rate?

- 3 A. The Company proposes a firm cost of gas rate of \$1.2100 per therm for the Keene
- 4 Division as shown on proposed Twelfth Revised Page 93.

5 Q. Please explain the calculation of the Cost of Gas rate on tariff page Proposed

6 **Twelfth Revised Page 93.**

7 A. Proposed Twelfth Revised Page 93 contains the calculation of the 2020/2021 Winter

8 Period Cost of Gas Rate ("COG") and summarizes the Company's forecast of propane

9 and compressed natural gas ("CNG") sales and propane and CNG costs. The total

10 anticipated cost of the gas sendout from November 1, 2020, through April 30, 2021, is

11 \$1,310,953. The information presented on the tariff page is supported by Schedules A

12 through J that are described later in this testimony.

13 To derive the Total Anticipated Cost of Gas, the following adjustments have been made:

- The prior period under-collection of \$30,171 is added from the anticipated cost of
 gas sendout; and
- Interest of \$55 is added to the anticipated cost of gas sendout. Schedule H shows
 this forecasted interest calculation for the period May 2020 through April 2021.
 Interest is accrued using the monthly prime lending rate as reported by the Federal
 Reserve Statistical Release of Selected Interest Rates.

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14 15 16 17 18 19	Q.	The forecasted total propane sendout on line 3, plus total CNG sendout on line 8, is the sum of the weather normalized 2020/2021 winter period firm sendout and company use. The forecasted Firm Sales on line 26 represent weather normalized 2020/2021 winter period firm sales. The weather normalization calculations for sendout and sales are found in Schedules I and J, respectively. Are CNG demand charges included in this filing?		
15 16 17		sum of the weather normalized 2020/2021 winter period firm sendout and company use. The forecasted Firm Sales on line 26 represent weather normalized 2020/2021 winter period firm sales. The weather normalization calculations for sendout and sales are found		
15 16		sum of the weather normalized 2020/2021 winter period firm sendout and company use. The forecasted Firm Sales on line 26 represent weather normalized 2020/2021 winter		
15		sum of the weather normalized 2020/2021 winter period firm sendout and company use.		
14		The forecasted total propane sendout on line 3, plus total CNG sendout on line 8, is the		
13		period based on the forecasted volumes, the cost of gas, and applicable interest amounts.		
12	А.	Schedule B presents the (over)/under collection calculation for the Winter 2020/2021		
11	Q.	What is Schedule B?		
10		Schedule F, line 55.		
9		weighted average cost per therm for the winter period gas sendout as detailed on		
8		the CNG Sendout as detailed on line 8. The unit cost of \$1.0367 per therm represents the		
7		1,185,353 therms represent gas propane sendout as detailed on Schedule B, line 3, plus		
6	А.	Schedule A converts the gas volumes and unit costs from gallons to therms. The		
5	Q.	Please describe Schedule A.		
4		therm was established by adding a \$0.02 per therm premium to the Non-FPO rate.		
3		Gas Sales of 1,108,419 therms. The Fixed Price Option ("FPO") rate of \$1.2300 per		
2		calculated by dividing the Total Anticipated Cost of Gas of \$1,341,179 by the Projected		
		The Non-Fixed Price Option ("Non-FPO") cost of gas rate of \$1.2100 per therm was		
1				

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Docket No. DG 20-152 Exhibit 2 Liberty Utilities (EnergyNorth Natural Gas) Corp. Docket No. DG 20-XXX Winter 2020/2021 Cost of Gas Filing – Keene Division Direct Testimony of Deborah M. Gilbertson, Catherine A. McNamara, and David B. Simek Page 6 of 14 Schedule B, line 11 includes 80% of the 2020/2021 demand charges. These charges are 1 for the season and represent the portion attributable to the per month or 2 3 winter period. Schedule B, line 12 contains 80% of one third of the total CNG demand charges for the 4 period August 2017 through September 2019. These charges are for the season 5 6 or per month. How were the demand charges for the August 2017 through September 2019 7 **Q**. calculated? 8 9 A. The demand charges for the 26 months are per month for a total of . The was then divided by three (the Company is proposing to 10 amortize the cost over three years) to get an annual total of 11 The current annual charges are split 80/20 between winter and summer. x 80% total 12 . The resulting winter period charge is which divided by six 13 results in a monthly charge of 14 What is the basis for including the demand charges from August 2017 through **Q**. 15 16 September 2019 in this filing? The Company was expecting to put the CNG facility online in 2017 and, therefore, it was A. 17 prudent to have a contract in place. See Order No. 26,065 (Oct. 20, 2017) (confirming 18 19 that Liberty had the right to distribute natural gas in Keene), and Order No. 26,067 (Oct.

- 20 31, 2017) (acknowledging Liberty's plans to provide CNG service during the 2017–2018
- 21 winter). This was the first time that Liberty or the Staff had been involved with

1		connecting CNG to the Company's distribution system and there were unknown
2		obstacles and delays involved with getting the installation finalized to the satisfaction of
3		all parties. However, the Company needed to be ready at any point during the period
4		from August 2017 through September 2019, as we could have received the go-ahead to
5		put the CNG system online at any time. Indeed, the Commission recognized that the
6		Company planned to begin providing CNG in the fall of 2017, and left open the
7		possibility that CNG could flow during the 2017–2018 winter:
8		"We recognize that while Liberty-Keene is forecasting the use of CNG this winter, the
9		introduction of CNG into the Keene system will not occur by the proposed effective date
10		of these rates (November 1) due to the safety requirements laid out in our order in DG
11		17-064. Thus, we will not approve the proposed 2017–2018 winter COG rates as filed
12		and will require Liberty-Keene to refile COG rates that remove any costs of CNG."
13		Order No. 26,067 at 5-6 (Oct. 31, 2017). The Commission approved the inclusion of
14		CNG in the summer 2018 Keene cost of gas rate, Order No. 26,126 (May 1, 2018). Since
15		we had to be ready to serve customers when that took place, it was reasonable to incur the
16		demand charges beginning in the fall of 2017.
17	Q.	Are unaccounted-for gas volumes included in the filing?
18	A.	Unaccounted-for gas is included in the firm sendout on Schedule B, lines 1 and 8. The
19		Company actively monitors its level of unaccounted-for volumes, which amounted to
20		0.56% for the twelve months ended June 30, 2020.

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1	Q.	Please describe Schedules C, D, and E.	
2	A.	Schedule C presents the calculation of the total forecasted cost of gas purchases in the	
3		2020/2021 winter period, segregated by Propane Purchasing Stabilization Plan ("PPSP")	
4		purchases, available storage deliveries from EnergyNorth's Amherst facility, CNG	
5		deliveries, and spot purchases. In prior filings, Schedule C was presented in gallons;	
6		however, in order to attain consistency with the other schedules in this filing, the unit of	
7		measure on Schedule C has been changed to therms.	
8		Schedule D presents the structure of PPSP pre-purchases for the winter period, monthly	
9		average rates for the pre-purchases, and the resulting weighted average contract price for	
10		the winter period as used in Schedule C, line 5.	
11		Schedule E presents the forecasted market spot prices of propane. Column 1 of the	
12		schedule represents the Mont Belvieu propane futures quotations as of September 11,	
13		2020, followed by projected broker fees, pipeline fees, PERC fees, supplier charges, and	
14		trucking charges. Together, the pricing and fees make up the expected cost of spot	
15		propane purchases as represented in Schedule C, line 31.	
16	Q.	Please describe the Propane Purchasing Stabilization Plan (PPSP).	
17	A.	The PPSP, as approved in Order No. 24,617 in Docket DG 06-037, was again	
18		implemented for the winter 2020/2021. As shown on Schedule D, the Company pre-	
19		purchased 700,000 gallons of propane between April and September at a weighted	
20		average price of \$0.8288 per gallon (\$0.9058 per therm), inclusive of broker, pipeline,	

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- Propane Education & Research Council ("PERC"), and trucking charges in effect at the 1 time of the supplier's bid. 2
- Has the pre-purchased volumes in the PPSP changed since 2019-20? 3 **Q**.
- No. The volume remains at 700,000 gallons or 640,500 therms. The Keene Division 4 A. maintains a pre-purchase hedge of approximately 63%, which is consistent with prior 5 6 years.
- 7 **Q**. How was the cost of CNG purchases determined?
- 8 A. The CNG costs are shown in Schedule C, lines 19 through 26. These costs reflect the 9 contractual agreement between the Company and its supplier, Xpress Natural Gas, LLC.
- **Q**. Please describe Schedule F. 10

A. Schedule F contains the calculation of the weighted average cost of inventory for each 11 month through April 2021. The unit cost of projected gas to be sent out each month 12 utilizes this weighted average inventory cost, which is inclusive of all PPSP purchases, 13 spot purchases, Amherst storage withdrawals, and CNG deliveries. Note that the CNG 14 deliveries are shown in separate columns from the propane-weighted cost but are 15 16 included in the average winter rate, which is established on line 55 of Schedule F. This

- mix of supply purchases is also itemized on Schedule C. 17
- 18 **Q**.

What is shown on Schedule G?

Schedule G shows the over-collected balance for the prior winter 2019/2020 period, A. 19

including interest calculated in a manner consistent with prior years. The over-collected 20

balance of \$26,354 (line 31) is shown on Schedule H, line 1, Column 1. 21

Q. How is the information in Schedule H represented in the cost of gas calculation?

- 2 A. Schedule H presents the interest calculation and adjustments on (over)/under-collected balances through April 2021. The prior period over-collection of (\$26,354) plus 3 adjustments of \$56,197 plus interest of \$328 on that balance through October 31, 2020, 4 are included on Schedule B, line 32, in the "Prior" column for a total of \$30,171. The 5 adjustments of \$56,197 are primarily due to the reversal of the prior period unbilled 6 7 revenue accrual for \$40,599 and the remainder is due to the timing of customer cancel and rebills related to a faulty meter for a large customer that had to be replaced. The 8 forecasted monthly interest of \$52 for the winter 2020/2021 period in Column 8 is 9 included on Schedule B, line 31. The adjusted prior period under-collection plus the 10 interest amount is also included on the tariff page. 11
- 12

III.

FIXED PRICE OPTION PROGRAM

13 Q. Please describe the FPO program that will be in place for the winter period.

A. The Company will offer the FPO program for the upcoming winter period to provide customers the opportunity to lock in their cost of gas rate. Enrollment in the program is limited to 50% of forecasted winter sales, with allotments made available to both residential and commercial customers on a first-come, first-served basis. The Company is forecasting that 19% of total sales volumes will enroll in the FPO program. The 19% is the five-year average FPO participation rate from winter 2015/2016 through the winter

20 of 2019/2020.

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Will a premium be applied to the FPO rate?

- 2 A. Yes. As approved in Order No. 24,516 in Docket DG 05-144, the Company has added a
- 3 \$0.02 per therm premium to the Non-FPO cost of gas rate to derive the FPO rate of
- 4 \$1.2300 per therm. The Company is not seeking an increase in the premium because
- 5 participation, based on prior customer behavior, is expected to remain well below the
- 6 50% threshold.

1

O.

- 7 Q. How will customers be notified of the availability of the FPO program?
- 8 A. A letter will be mailed to all customers by October 1 advising them of the program, the
- 9 FPO rate, and the procedure to enroll.

10 IV. COST OF GAS RATE AND BILL COMPARISONS

Q. How does the proposed Winter 2020/2021 cost of gas rate compare with the previous winter's rate?

- 13 A. The proposed Non-FPO COG rate of \$1.2100 per therm is an increase of \$0.2608 or
- 14 27.5% from the winter 2019/2020 beginning rate of \$0.9492 per therm. The proposed
- 15 FPO rate is \$1.2300 per therm, representing an increase of \$0.2608 per therm or 26.9%
- 16 from last winter's fixed rate of \$0.9692.

17 Q. What is the primary reasons for the change in rates?

- 18 A. There are three main reasons for the increase in rates. Approximately \$0.19 of the \$0.26
- 19 increase is due to the change from over-collection from the prior period to an under-
- 20 collection for the current period. Approximately \$0.07 of the increase is due to the
- annual \$72,222 of CNG demand charges from August 2017 through September 2019.

Finally, approximately \$0.05 of the increase in rates is due to a billing adjustment made 1 in May 2020 due to the faulty meter that had to be replaced for a large customer. The 2 3 remaining \$0.05 decrease is other. Q. What is the impact of the Winter 2020/2021 COG rate on the typical residential heat 4 and hot water customer participating in the FPO program? 5 6 A. As shown on Schedule K-1, Column 7, lines 30 and 31, the typical residential heat and 7 hot water FPO customer would experience an increase of \$116.57 or 26.9% in the gas component of their bills compared to the prior winter period. When the monthly 8 9 customer charge, therm delivery charge and LDAC are factored into the analysis, the 10 typical customer would see a total bill increase of \$136.31 or 17.3%, as shown on lines 37 and 38. The LDAC rate used in Schedule K-1, line 32 is the LDAC rate proposed in 11 the currently pending EnergyNorth COG Filing, Docket No. DG 20-141. 12 What is the impact of the Winter 2020/2021 COG rate on the typical residential heat 13 **Q**. 14 and hot water customer choosing the Non-FPO program? A. As shown on Schedule K-2, Column 7, lines 30 and 31, the typical residential heat and 15 hot water Non-FPO customer is projected to see an increase of \$173.02 or 47.0% in the 16 gas component of their bills compared to the prior winter period. When the monthly 17 customer charge, therm delivery charge and LDAC are factored into the analysis, the 18 typical customer would see a total bill increase of \$192.76 or 26.7% as shown on lines 37 19

1		and 38. The LDAC rate used in Schedule K-2, line 32 is the LDAC rate proposed in the			
2		currently pending EnergyNorth COG Filing, Docket No. DG 20-141.			
3	Q.	Please describe the impact of the Winter 2020/2021 COG rate on the typical			
4		commercial customer compared to the prior winter period.			
5	A.	Schedule L-1 illustrates that the typical commercial FPO customer would see a \$448.84			
6		or 26.9% increase in the gas component of their bill and a 17.7% increase in their total			
7		bill. Schedule L-2 shows that the typical commercial Non-FPO customer would see			
8		increases of \$676.63 (48.1%) in the gas component of their bill and a 28.9% increase in			
9		their total bill.			
10	V.	OTHER ITEMS			
11	Q.	What is the status of the CNG conversion?			
12	A.	The Company began serving customers with CNG in October 2019. Customers			
13		experienced a smooth transition from propane service to CNG service. The service			
14		territory for CNG is exclusive to the Monadnock Marketplace at this time. The current			
15		contract with Xpress Natural Gas (XNG) will expire in June 2021. In order to ensure a			
16		seamless transition from one CNG supplier to the next, if necessary, the Company has			
17		sent out a solicitation for CNG bids for the time period commencing on July 2021. The			

- 18 Company received several bids and is in the process of analyzing the results.
- 19 Q. Please describe how the Company will meet its 7-day on-site storage requirement.
- A. The Company has net storage capacity at its plant in Keene for approximately 75,000
- 21 gallons of propane. Additionally, EnergyNorth has approximately 129,800 gallons of

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1		propane (net of heel) at the Amherst storage facility located approximately 50 miles from
2		the Keene plant. This storage facility is partially shared between the Keene Division and
3		EnergyNorth. In addition, the Company will arrange its standard trucking commitment
4		with Northern Gas Transport, Inc. for transportation from this storage facility to the
5		Keene plant. Further, the Company has contracted for CNG deliveries to provide service
6		to a small section of its system. The firm trucking arrangement coupled with onsite CNG
7		trailers are more than sufficient to meet the 7-day demand requirement for those
8		customers being served exclusively by CNG for the 2020/2021 peak period.
9	Q.	Can you please discuss the impacts, if any, of COVID-19 and the current economic
10		uncertainties on the demand forecast for 2020/21?
10 11	A.	uncertainties on the demand forecast for 2020/21? Although there is little definitive first-hand information pertaining to the impact of
	A.	
11	A.	Although there is little definitive first-hand information pertaining to the impact of
11 12	A.	Although there is little definitive first-hand information pertaining to the impact of COVID-19 on this upcoming winter forecast, the Company has been gathering and
11 12 13	A.	Although there is little definitive first-hand information pertaining to the impact of COVID-19 on this upcoming winter forecast, the Company has been gathering and assessing the impact as it unfolds. Early indicators suggest that the overall impact from
11 12 13 14	A.	Although there is little definitive first-hand information pertaining to the impact of COVID-19 on this upcoming winter forecast, the Company has been gathering and assessing the impact as it unfolds. Early indicators suggest that the overall impact from April through August has been a five percent decline in demand from actual to expected
11 12 13 14 15	A.	Although there is little definitive first-hand information pertaining to the impact of COVID-19 on this upcoming winter forecast, the Company has been gathering and assessing the impact as it unfolds. Early indicators suggest that the overall impact from April through August has been a five percent decline in demand from actual to expected demand. The Company will continue to monitor and assess the actual impact of COVID-
 11 12 13 14 15 16 	A.	Although there is little definitive first-hand information pertaining to the impact of COVID-19 on this upcoming winter forecast, the Company has been gathering and assessing the impact as it unfolds. Early indicators suggest that the overall impact from April through August has been a five percent decline in demand from actual to expected demand. The Company will continue to monitor and assess the actual impact of COVID- 19 on sales and demand as more information becomes available and the efforts to reopen

19 A. Yes, it does.

LIBERTY UTILITIES - KEENE DIVISION

COST OF GAS RATE FILING - DG 20-____

WINTER PERIOD 2020 - 2021

ORIGINAL FILING (with CNG removed)

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31. CALCULATION OF FIRM SALES AND FIXED WINTER PERIOD COST OF GAS RATE KEENE CUSTOMERS

Calculation of the Cost of Gas Rate

Period Cove	Winter Period November 1, 2020 through April 30, 2021		
Projected G	1,108,419		
Total Anticip	bated Cost of Gas Sendout		\$1,310,953
Add:	Prior Period Deficiency Uncollected Interest	\$30,171 \$55	
Deduct:	Prior Period Excess Collected Interest	\$0 \$0	
	Prior Period Adjustments and Interest		\$30,226
Total Anticip	bated Cost		\$1,341,179
Cost of Gas	Rate		
Non-Fixed F	Price Option Cost of Gas Rate - Beginning Period (per therm)		<u>\$1.2100</u>
Fixed Price	Option Premium		\$0.0200
Fixed Price	Option Cost of Gas Rate (per therm)		<u>\$1.2300</u>
	tariff section 17(d), the Company may adjust the approved rate upward on a monthly basis to the following rate:		
Maximum C	ost of Gas Rate - Non-Fixed Price Option (per therm)		<u>\$1.5125</u>

DATED: October 31, 2020	ISSUED BY:	/s/Susan L. Fleck
		Susan L. Fleck
EFFECTIVE: November 01, 2020	TITLE:	President

Authorized by NHPUC Order No. xx,xxx dated October xx, 2020 in Docket No. DG 20-xxx

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31. CALCULATION OF FIRM SALES AND FIXED WINTER PERIOD COST OF GAS RATE KEENE CUSTOMERS

Calculation of the Cost of Gas Rate

Period Co	overed:	Winter Period April 1, 2020 through April 30, 2020 Winter Period November 1, 2020 through April 30, 2021					
Projected	l Gas Sales	- therms			<u>1,125,331</u>		1,108,419
Total Anti	cipated Cos	t of Gas Sendout		\$	—1 ,246,677	\$	1,310,953
Add:	Prior Perio Interest	od Deficiency Uncollected	\$ \$	\$ \$	30,171 55		
Deduct:	Prior Perio Adjusting Interest	od Excess Collected Entries	\$ <u>(164,410)</u> \$ <u>(9,686)</u> \$ <u>(4,407)</u>	\$	- - -		
	Prior Perio	od Adjustments and Interest		\$	(178,503)	\$	30,226
Total Anti	cipated Cos	t		\$	1,068,174	\$	1,341,179
Cost of G	as Rate						
Non-Fixed	d Price Opti	on Cost of Gas Rate - Beginning Period (per therm)		\$	0.9492	\$	1.2100
Fixed Price	ce Option Pr	emium		\$	0.0200	\$	0.0200
Fixed Pric	ce Option Co	ost of Gas Rate (per therm)		<u>\$</u>	0.9692	<u>\$</u>	1.2300
Non-Fixed	d Price Opti	on Cost of Gas Rate - Beginning Period (per therm)		\$	0.9492		
Mid Perio	d Adjustmei	nt - January 01, 2020		\$	0.0194		
Mid Perio	d Adjustmei	nt - February 1, 2020		\$	(0.0334)		
Mid Perio	d Adjustmei	nt - March 1, 2020		\$	(0.2446)		
Mid Perio	d Adjustme	nt - April 01, 2020		\$	(0.2498)		
Revised 1	Non-Fixed P	rice Option Cost of Gas Rate - Effective April 1, 2020 (per the	r m)	\$	0.4408		
		s Rate - Non-Fixed Price Option (per therm) rd on a monthly basis to the following rate:					
Maximum	Cost of Ga	s Rate - Non-Fixed Price Option (per therm)		\$	1.1865	\$	1.5125

DATED: October 31, 2020 DATED: March 24, 2020 EFFECTIVE: November 01, 2020 EFFECTIVE: April 01, 2020 ISSUED BY: <u>/s/Susan L. Fleck</u> Susan L. Fleck TITLE: President

Authorized by NHPUC Order No. xx,xxx dated October xx, 2020 in Docket No. DG 20-xxx Authorized by NHPUC Order No. 26,305 dated October 31, 2019, in Docket No. DG 19-153 NHPUC No.10 GAS LIBERTY UTILITIES

		tive Novemb Winter Perioc		April	30, 2021	Rate	es Effecti		er 1, 2020 - Period [1]	Octol	ber 31, 2020
	Delivery <u>Charge</u>	Cost of Gas Rate <u>Page 93</u>	LDAC Page 97		Total <u>Rate</u>		ivery harge	Cost of Gas Rate <u>Page 90</u>	LDAC Page 97		Total <u>Rate</u>
Residential Non Heating - R-1 Customer Charge per Month per Meter All therms	\$ 15.50 \$ 0.3860		\$ 0.0603	\$ \$	15.50 1.6563	\$ \$	15.50 0.3860	\$ 0.7908	\$ 0.0310	\$ \$	15.20 0.9289
Residential Heating - R-3 Customer Charge per Month per Meter All therms over the first block per month at	\$ 15.50 \$ 0.5678		\$ 0.0603	\$ \$	15.50 1.8381	\$ \$	15.50 0.5678	\$ 0.7908	\$ 0.0310	\$ \$	15.20 1.1072
Residential Heating - R-4 Customer Charge per Month per Meter All therms over the first block per month at	\$ 8.53 \$ 0.3123	3 3 \$ 0.6655	\$ 0.0603	\$ \$	8.53 1.0381	\$ \$	6.20 0.2272	\$ 0.7908	\$ 0.0310	\$ \$	6.08 0.7731
Commercial/Industrial - G-41 Customer Charge per Month per Meter Size of the first block Therms in the first block per month at	\$ 57.46 20 therm \$ 0.4711	s \$ 1.2100		\$ \$	57.46 1.7360	\$	57.46 0 therms 0.4711	\$ 0.7908	\$ 0.0478	\$	56.36 1.0221
All therms over the first block per month at <u>Commercial/Industrial - G-42</u> Customer Charge per Month per Meter Size of the first block	\$ 0.3165 \$ 172.39 1000 therm)	\$ 0.0549	\$ \$	1.5814 172.39	\$ \$ 40	0.3165 172.39 0 therms	\$ 0.7908	\$ 0.0478	\$ \$	0.8704 169.09
Therms in the first block per month at All therms over the first block per month at	\$ 0.4284 \$ 0.2855	\$ 1.2100	\$ 0.0549 \$ 0.0549	\$ \$	1.6933 1.5504	\$ \$	0.4284 0.2855	\$ 0.7908 \$ 0.7908	\$ 0.0478 \$ 0.0478	\$ \$	0.9802 0.8400
<u>Commercial/Industrial - G-43</u> Customer Charge per Month per Meter All therms over the first block per month at	\$ 739.83 \$ 0.1204		\$ 0.0549	\$ \$	739.83 1.3853	\$ \$	739.83 0.1204	\$ 0.7908	\$ 0.0478	\$ \$	725.66 0.6781
<u>Commercial/Industrial - G-51</u> Customer Charge per Month per Meter Size of the first block Therms in the first block per month at	\$ 57.46 100 therm \$ 0.2839	S	\$ 0.0549	\$ \$	57.46 1.5488	\$ 10 \$	57.46 0 therms 0.2839	\$ 0.7908	\$ 0.0478	\$ \$	56.36 0.8385
All therms over the first block per month at Commercial/Industrial - G-52	\$ 0.1846	\$ 1.2100		\$	1.4495	\$	0.1846	\$ 0.7908	\$ 0.0478	\$	0.7411
Customer Charge per Month per Meter Size of the first block Therms in the first block per month at All therms over the first block per month at	\$ 172.39 1000 therm \$ 0.1767 \$ 0.1004	s ′\$1.2100	\$ 0.0549 \$ 0.0549	\$ \$ \$	172.39 1.4416 1.3653	\$ 100 \$ \$	172.39 0 therms 0.1767 0.1004	\$ 0.7908 \$ 0.7908	\$ 0.0478 \$ 0.0478	\$ \$ \$	169.09 0.7333 0.6585
Commercial/Industrial - G-53 Customer Charge per Month per Meter All therms over the first block per month at	\$ 761.39			\$ \$	761.39 1.3467	\$ \$	761.39 0.0818	\$ 0.7908	\$ 0.0478	\$ \$	746.81 0.6402
<u>Commercial/Industrial - G-54</u> Customer Charge per Month per Meter All therms over the first block per month at	\$ 761.39 \$ 0.0353) 3 \$ 1.2100	\$ 0.0549	\$ \$	761.39 1.3002	\$ \$	761.39 0.0353	\$ 0.7908	\$ 0.0478	\$ \$	746.81 0.5946

DATED: October 31, 2020

EFFECTIVE: November 01, 2020

ISSUED BY: <u>/s/Susan L. Fleck</u> Susan L. Fleck TITLE: President

Authorized by NHPUC Order No. xx,xxx dated October xx, 2020 in Docket No. DG 20-xxx

NHPUC No.10 GAS LIBERTY UTILITIES

Proposed Twenty-seventh Revised Page 85 Twenty-sixth Revised Page 85 Superseding Twenty-Sixth Page 85 Twenty-fifth Revised Page 85

	Potos Eff	octivo April :	1 , 2020 - Ap r	-11 20	2020	Potos E	ffective July	1 2010 Oct	obor	21 2010
	Rates Effect	ive Novemb	er 1, 2020 - A				tive Septemb	oer 1, 2020 -		
	V	Vinter Period	Period				Cost of	Period [1]		
	Delivery <u>Charge</u>	Gas Rate Page 93	LDAC Page 97		Total <u>Rate</u>	Delivery <u>Charge</u>	Gas Rate Page 90	LDAC Page 97		Total <u>Rate</u>
Residential Non Heating - R-1	\$ 15.20			\$	15.20	\$ 15.20	ŧ.		\$	15.20
Customer Charge per Month per Meter	\$ 15.50			\$	15.50	\$ 15.50			\$	15.50
All therms	\$ 0.3860 \$ 0.3786	\$ 1.2100 \$ 0.4408	\$ 0.0603 \$ 0.0310	\$ \$	1.6563 0.8504	\$ 0.3860 \$ 0.3786		\$ 0.0310 \$ 0.0310	\$ \$	1.2078 <u>1.2004</u>
Residential Heating - R-3	\$ 15.20			\$	15.20	\$ 15.20	L		\$	15.20
Customer Charge per Month per Meter	\$ 15.50			\$	15.50	\$ 15.50			\$	15.50
All therms over the first block per month at	\$ 0.5678	\$ 1.2100	\$ 0.0603	\$	1.8381	\$ 0.5678		\$ 0.0660	\$	1.4246
	\$ 0.5569	\$ 0.4408	\$ 0.0310	\$	1.0287	\$ 0.5569		\$ 0.0310	\$	1.3787
Residential Heating - R-4	\$6.08			\$	6.08	\$6.08	L.		\$	6.08
Customer Charge per Month per Meter	\$ 8.53			\$	8.53	\$ 6.20			\$	6.20
All therms over the first block per month at	\$ 0.3123		\$ 0.0603	\$	1.5826	\$ 0.2272		\$ 0.0310	\$	1.0490
	\$ 0.2228	\$ 0.4408	\$ 0.0310	\$	0.6946	\$ 0.2228	\$ 0.7908	\$ 0.0310	\$ —	1.0446
Commercial/Industrial - G-41	\$ 			\$	56.36	\$ 56.36	;		\$	56.36
Customer Charge per Month per Meter Size of the first block	\$ 57.46 20 therms	:		\$	57.46	\$ 56.36 20 therm			\$	56.36
Therms in the first block per month at	\$ 0.4711	, \$ 1.2100	\$ 0.0549	\$	1.7360	\$ 0.4711		\$ 0.0478	\$	1.3097
· · · · · · · · · · · · · · · · · · ·	\$ 0.4621		\$ 0.0478	\$	0.9507	\$ 0.4621		\$ 0.0478	\$	1.3007
All therms over the first block per month at	\$ 0.3165	\$ 1.2100	\$ 0.0549	\$	1.5814	\$ 0.3165	\$ 0.7908	\$ 0.0478	\$	1.1551
	\$ <u>0.3104</u>	<u>\$ 0.4408</u>	<u>\$ 0.0478</u>	\$	0.7990	\$ <u>0.310</u> 4	\$ 0.7908	<u>\$ 0.0478</u>	\$	1.1490
Commercial/Industrial - G-42	\$ 169.09			\$	169.09	\$ 169.09	L		\$	169.09
Customer Charge per Month per Meter	\$ 172.39			\$	172.39	\$ 172.39			\$	172.39
Size of the first block Therms in the first block per month at	1000 therms \$ 0.4284		\$ 0.0549	\$	1.6933	400 therm \$ 0.4284		\$ 0.0478	\$	1.2670
mernis in the first block per month at	\$ 0.4284 \$ 0.4202	\$ 1.2100 \$ 0.4408	\$ 0.0349 \$ 0.0478	ф \$	0.9088	\$ 0.4284 \$ 0.4202		\$ 0.0478 \$ 0.0478	э \$	1.2588
All therms over the first block per month at	\$ 0.2855	\$ 1.2100	\$ 0.0549	\$	1.5504	\$ 0.2855		\$ 0.0478	\$	1.1241
	\$ 0.2800	\$ 0.4408	\$ 0.0478	\$	0.7686	\$ 0.2800	\$ 0.7908	\$ 0.0478	\$	1.1186
Commercial/Industrial - G-43	\$ 725.66			\$	725.66	\$ 725.65	÷		\$	725.65
Customer Charge per Month per Meter	\$ 739.83			\$	739.83	\$ 739.83			\$	739.83
All therms over the first block per month at	\$ 0.1204 \$ 0.1181		\$ 0.0549 \$ 0.0757	\$ \$	<u>1.3853</u> 0.6346	\$ 0.1204 \$ 0.1181		\$ 0.0478 \$ 0.0478	\$ \$	0.9590 0.9567
Commercial/Industrial - G-51	\$56.36			\$	56.36	\$56.36			\$	56.36
Customer Charge per Month per Meter	\$ 57.46			\$	57.46	\$ 57.46			\$	57.46
Size of the first block	100 therms	6		•		100 therm			Ŧ	
Therms in the first block per month at	\$ 0.2839	\$ 1.2100	\$ 0.0549	\$	1.5488	\$ 0.2839	\$ 0.7908	\$ 0.0478	\$	1.1225
	\$ 0.2785	\$ 0.4408	\$ 0.0757	\$	0.7950	\$ 0.2785	\$ 0.7908	\$ 0.0478	\$	1.1171
All therms over the first block per month at	\$ 0.1846	\$ 1.2100	\$ 0.0549	\$	1.4495	\$ 0.1846		\$ 0.0478	\$	1.0232
	\$ <u>0.1811</u>	\$ 0.4408	\$ 0.0757	\$	0.6976	\$ 0.1811	\$ 0.7908	\$ 0.0478	\$	1.0197
Commercial/Industrial - G-52	\$ 169.09			\$	169.09	\$ 169.09	£.		\$	169.09
Customer Charge per Month per Meter Size of the first block	\$ 172.39 1000 therms	:		\$	172.39	\$ 172.39 1000 therm			\$	172.39
Therms in the first block per month at	\$ 0.1767		\$ 0.0549	\$	1.4416	\$ 0.1767		\$ 0.0478	\$	1.0153
· · · · · · · · · · · · · · · · · · ·	\$ 0.1733		\$ 0.0757		1.5141	\$ 0.1733		\$ 0.0478	\$	1.0119
All therms over the first block per month at	\$ 0.1004	\$ 1.2100	\$ 0.0549	\$	1.3653	\$ 0.1004		\$ 0.0478	\$	0.9390
	\$ <u>0.0985</u>	\$ 1.2651	<u>\$ 0.0757</u>	\$	1.4393	\$ 0.0985	\$ 0.7908	<u>\$ 0.0478</u>	\$	0.9371
Commercial/Industrial - G-53	\$ 746.81			\$	746.81	\$ 746.81			\$	746.81
Customer Charge per Month per Meter	\$ 761.39			\$	761.39	\$ 761.39			\$	761.39
All therms over the first block per month at	\$ 0.0818 \$ 0.0802			\$ \$	1.3467 <u>1.4210</u>	\$ 0.0818 \$ 0.0802		\$ 0.0478 \$ 0.0478	\$ \$	0.9204
	• • • • • •	÷	+ 1.0.01	÷				1 10110		
Commercial/Industrial - G-54	\$ 746.81 \$ 761.39			\$\$\$	746.81 761.39	\$ 746.81 \$ 761.39			\$ \$	746.81 761.20
Customer Charge per Month per Meter All therms over the first block per month at	\$ 761.39 \$ 0.0353	\$ 1.2100	\$ 0.0549		1.3002	\$ 761.39 \$ 0.0353		\$ 0.0478	ъ \$	761.39 0.8739
	\$ 0.0353 \$ 0.0346				1.3002 1.3754	\$ 0.0353 \$ 0.0346		\$ 0.0478 \$ 0.0478	э \$	0.8732

DATED: October 31, 2020 DATED: June 24, 2020 EFFECTIVE: November 01, 2020 EFFECTIVE: July 01, 2020

ISSUED BY: /s/Susan L. Fleck

TITLE: President

Authorized by NHPUC Order No. xx,xxx dated October xx, 2020 in Docket No. DG 20-xxx Authorized by NHPUC Order 26,351 dated April 30, 2020 in Docket No. 20-041, see complete revised Order 26,351 (05/01/20)

SCHEDULE A

LIBERTY UTILITIES - KEENE DIVISION

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

	(1)	(2)	(3)	(4)		(5)	(6)
			VOLU	JMES		UNIT	COST
	<u>UNIT</u>	CONVERSION <u>FACTOR</u>	GALLONS	<u>THERMS</u>	-	PER <u>LLON</u>	PER <u>THERM</u>
GAS FROM INVENTORY	GALLONS	0.91502			\$0	0.9486	\$1.0367

REDACTED SCHEDULE B

LIBERTY UTILITIES - KEENE DIVISION

CALCULATION OF COST OF GAS RATE SUPPLY / DEMAND BALANCE WINTER PERIOD 2020 - 2021

		PRIOR	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	TOTAL
	PROPANE COSTS								
1	PROPANE FIRM SENDOUT (therms)		134,680	197,338	228,559	186,164	149,852	86,555	983,148
2	COMPANY USE (therms)		5,258	5,297	6,035	6,621	4,548	3,870	31,630
3	TOTAL PROPANE SENDOUT (therms)		139,938	202,635	234,594	192,785	154,400	90,425	1,014,778
4	COST PER THERM (WACOG)		\$0.8606	\$0.8923	\$0.9074	\$0.9161	\$0.9864	\$0.9414	
5 6	TOTAL CALCULATED COST OF PROPANE PROPANE ADJUSTMENTS		\$120,436 \$0	\$180,805 \$0	\$212,874 \$0	\$176,615 \$0	\$152,296 \$0	\$85,128 \$0	\$928,154 \$0
7	TOTAL COST OF PROPANE		\$120,436	\$180,805	\$212,874	\$176,615	\$152,296	\$85,128	\$928,154
8	CNG COSTS CNG SENDOUT (therms)								
9 10 11 12 13	COST PER THERM (WACOG) TOTAL CALCULATED COST OF CNG CNG DEMAND CHARGES CNG ADJUSTMENTS -Demand Charges Aug 2017 - Sep 2019 TOTAL CNG COSTS								
14	ACCOUNTING ADJUSTMENT		\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	FPO PREMIUM		(\$584)	(\$829)	(\$929)	(\$813)	(\$678)	(\$378)	(\$4,211)
16	TOTAL COSTS OF GAS								
17	RETURN ON INVENTORY		\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$14,126
	REVENUES								
18	BILLED FPO SALES (therms)		0	0	0	0	0	0	
19	COG FPO RATE		\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0
20	BILLED NON-FPO SALES PRIOR MONTH (therms)		0	0	0	0	0	0	
21	COG NON-FPO RATE PRIOR MONTH		\$0.0000	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0
22	BILLED NON-FPO SALES CURRENT MONTH (therms)		153,781	218,228	244,463	213,913	178,455	99,579	1,108,419
23	COG NON-FPO RATE CURRENT MONTH		\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	
			\$186,074	\$264,054	\$295,798	\$258,833	\$215,929	\$120,490	\$1,341,177
24 25	BILLED SALES OTHER PRIOR PERIODS COG OTHER PRIOR PERIODS BLENDED RATE		0 \$0.0000	0 \$0.0000	0 \$0.0000	0 \$0.0000	0 \$0.0000	0 \$0.0000	
			\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	TOTAL SALES		153,781	218,228	244,463	213,913	178,455	99,579	1,108,419
27	TOTAL BILLED REVENUES		\$186,074	\$264,054	\$295,798	\$258,833	\$215,929	\$120,490	\$1,341,178
28	UNBILLED REVENUES (NET)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	TOTAL REVENUES		\$186,074	\$264,054	\$295,798	\$258,833	\$215,929	\$120,490	\$1,341,178

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(\$12,657)

(\$12,630)

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\$7

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(\$7)

(\$3,789)

(\$3,813)

(\$24)

\$10,642

\$10,628

(\$14)

(\$30,225)

\$52

(\$2)

(\$14,078)

(\$14,015)

\$30,171

\$63

30 (OVER)/UNDER COLLECTION

32 FINAL (OVER)/UNDER COLLECTION

31 INTEREST AMOUNT

REDACTED SCHEDULE C

LIBERTY UTILITIES - KEENE DIVISION

CALCULATION OF PURCHASED GAS COSTS WINTER PERIOD 2020 - 2021

1		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	TOTAL
	TOTAL REQUIRED PURCHASES	161,626	236,469	273,332	225,625	181,465	106,835	1,185,353
	PROPANE PURCHASE STABILIZATION PLAN DELIVERIES THERMS	84,182	128,103	150,978	123,528	96,077	57,646	640,514
		04,102	120,103	150,978	123,320	90,077	57,040	040,314
	RATES - from Schedule D	¢0.0050	¢0.0050	¢0.0050	¢0.0050	¢0.0050	¢0.0050	
5 6	Contract Price Broker Fee	\$0.9058 incl.	\$0.9058 incl.	\$0.9058 incl.	\$0.9058 incl.	\$0.9058 incl.	\$0.9058 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	\$0.9058	\$0.9058	\$0.9058	\$0.9058	\$0.9058	\$0.9058	\$0.9058
11	TOTAL COST - Propane Purchase Stabilization Plan Deliveries	\$76,250	\$116,032	\$136,752	\$111,888	\$87,024	\$52,214	\$580,160
12	AMHERST STORAGE PROPANE DELIVERIES							
	Therms	-	24,948	47,520	33,264	9,504	3,564	118,800
	RATES - 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	\$0.0650	\$0.0650	\$0.0650	\$0.0650	
17	COST PER THERM	\$0.0000	\$0.7836	\$0.7836	\$0.7836	\$0.7836	\$0.7836	\$0.7836
18	TOTAL COST - Amherst Storage Propane Deliveries	\$0	\$19,549	\$37,237	\$26,066	\$7,447	\$2,793	\$93,092
19	CNG DELIVERIES							
20	THERMS							
	RATE							
22								
23								
24								
25								
20								
26								
- 1								
-	SPOT PURCHASES							
27	SPOT PURCHASES THERMS							
27 28	THERMS							
27 28 29	THERMS From Schedule E	\$0.9544	\$0.9612	\$0 9721	\$0.9735	\$0.9564	\$0.9386	\$0.9595
27 28	THERMS	\$0.9544	\$0.9612	\$0.9721	\$0.9735	\$0.9564	\$0.9386	\$0.9595
27 28 29 30	THERMS From Schedule E	\$0.9544	\$0.9612	\$0.9721	\$0.9735	\$0.9564	\$0.9386	\$0.9595
27 28 29 30 31	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases	\$0.9544	\$0.9612	\$0.9721	\$0.9735	\$0.9564	\$0.9386	\$0.9595
27 28 29 30 31 32	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases OTHER ITEMS							
27 28 29 30 31	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases	\$0.9544 \$0 \$0 \$0	\$0.9612 \$0 \$0 \$0	\$0.9721 \$0 \$0 \$0	\$0.9735 \$0 \$0 \$0	\$0.9564 \$0 \$0 \$0	\$0.9386 \$0 \$0 \$0	\$0
27 28 29 30 31 31 32 33	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases OTHER ITEMS Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0
27 28 29 30 31 32 33 34 35	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases OTHER ITEMS Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
27 28 29 30 31 32 33 34 35 - 36	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases OTHER ITEMS Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS TOTAL	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0
27 28 29 30 31 32 33 34 35 - 36 37	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases OTHER ITEMS Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0 1,014,778
27 28 29 30 31 32 33 34 35 36 37 38	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases OTHER ITEMS Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS TOTAL THERMS FROM PROPANE COST	\$0 \$0 \$0 139,938	\$0 \$0 \$0 202,635	\$0 \$0 \$0 234,594	\$0 \$0 \$0 192,785	\$0 <u>\$0</u> \$0 154,400	\$0 \$0 \$0 90,425	\$0 \$0 \$0 1,014,778
27 28 29 30 31 32 33 34 35 36 37 38 39	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases OTHER ITEMS Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS TOTAL THERMS FROM PROPANE	\$0 \$0 \$0 139,938	\$0 \$0 \$0 202,635	\$0 \$0 \$0 234,594	\$0 \$0 \$0 192,785	\$0 <u>\$0</u> \$0 154,400	\$0 \$0 \$0 90,425	\$0.9595 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
27 28 29 30 31 32 33 34 35 36 37 38 39 40	THERMS From Schedule E COST PER THERM TOTAL COST - Spot Purchases OTHER ITEMS Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS TOTAL THERMS FROM PROPANE COST THERMS FROM CNG	\$0 \$0 \$0 139,938	\$0 \$0 \$0 202,635	\$0 \$0 \$0 234,594	\$0 \$0 \$0 192,785	\$0 <u>\$0</u> \$0 154,400	\$0 \$0 \$0 90,425	\$0 \$0 \$0 1,014,778

SCHEDULE D

LIBERTY UTILITIES - KEENE DIVISION

PROPANE PURCHASING STABILIZATION PLAN WINTER PERIOD 2020 - 2021

Line								
<u>No.</u>								
1	Delivery		Hedg	ing Sched	lule & Volu	ume (Gal	lons)	
2	Month	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Total
3	Nov-20	18,400	13,800	13,800	18,400	13,800	13,800	92,000
4	Dec-20	28,000	21,000	21,000	28,000	21,000	21,000	140,000
5	Jan-21	33,000	24,750	24,750	33,000	24,750	24,750	165,000
6	Feb-21	27,000	20,250	20,250	27,000	20,250	20,250	135,000
7	Mar-21	21,000	15,750	15,750	21,000	15,750	15,750	105,000
8	Apr-21	12,600	9,450	9,450	12,600	9,450	9,450	63,000
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	\$0.8289 \$0.8326	\$0.8411	\$0.8403	\$0.8138 \$0.7885	
------------------------------	-------------------	----------	----------	-------------------	--

12 Total Cost \$76,262 \$116,568 \$138,786 \$113,434 \$85,450 \$49,676 \$580,175

13 Weighted Average Winter Contract Price per gallon

\$0.8288

14 Weighted Average Winter Contract Price per therm

\$0.9058

SCHEDULE E

LIBERTY UTILITIES - KEENE DIVISION

PROPANE SPOT MARKET PURCHASE COST ANALYSIS WINTER PERIOD 2020 - 2021

		(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	0.4769	+	0.0100	+	0.2410	+	0.0050	+	0.0500	=	0.7829	+	0.0904	=	0.8733	=	0.9544
2	DEC	0.4831	+	0.0100	+	0.2410	+	0.0050	+	0.0500	=	0.7891	+	0.0904	=	0.8795	=	0.9612
3	JAN	0.4931	+	0.0100	+	0.2410	+	0.0050	+	0.0500	=	0.7991	+	0.0904	=	0.8895	=	0.9721
4	FEB	0.4944	+	0.0100	+	0.2410	+	0.0050	+	0.0500	=	0.8004	+	0.0904	=	0.8908	=	0.9735
5	MAR	0.4788	+	0.0100	+	0.2410	+	0.0050	+	0.0500	=	0.7847	+	0.0904	=	0.8751	=	0.9564
6	APR	0.4625	+	0.0100	+	0.2410	+	0.0050	+	0.0500	=	0.7685	+	0.0904	=	0.8589	=	0.9386

1. Propane futures market quotations (cmegroup.com) on 9/11/20 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

Therm Rate

REDACTED SCHEDULE F

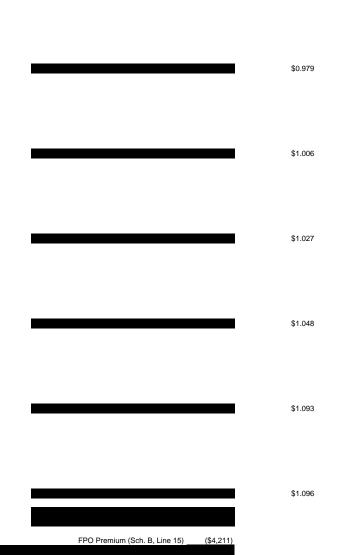
LIBERTY UTILITIES - KEENE DIVISION

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

CNG therms

LINE NO.

INE NO					
1	August 2020 (Actual)	Therms	Cost	Therm	<u>Rate</u> Gal.
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 (Estimated)	Therms	Cost	Therm	<u>Rate</u> Gal.
8	Beginning Balance	149,946	\$118,768	\$0.7921	\$0.7248
9	Purchases Received	79,232	\$60,612	\$0.7650	\$0.7000
10	Total Available	229,178	\$179,380	\$0.7827	\$0.7162
11 12	Less Sendout Ending Balance	47,824 181,354	\$37,432 \$141,948	\$0.7827 \$0.7827	\$0.7162 \$0.7162
12	Enality Balance	101,004	φ141,040	ψ0.7027	
13	October 2020 (Estimated)	Therms	Cost	Therm	Rate Gal.
14	Beginning Balance	181,354	\$141,948	\$0.7827	\$0.7162
15	Purchases Received	70,000	\$60,438	\$0.8634	\$0.7900
16 17	Total Available Less Sendout	251,354 88,604	\$202,386 \$71,342	\$0.8052 \$0.8052	\$0.7368 \$0.7368
18	Ending Balance	162,750	\$131,044	\$0.8052	\$0.7368
		,	•••••		_
19	November 2020 (Forecasted)	Therms	Cost	Therm	<u>Rate</u> Gal.
20	Beginning Balance	162,750	\$131,044	\$0.8052	\$0.7368
21	Purchases Received	139,938	\$129,462	\$0.9251	\$0.8465
22 23	Total Available Less Sendout	302,688	\$260,506 \$120,436	\$0.8606 \$0.8606	\$0.7875 \$0.7875
23	Ending Balance	139,938 162,750	\$120,430	\$0.8606	\$0.7875
24	Enality Balance	102,100	φ140,010	φ0.0000	
25	December 2020 (Forecasted)	Therms	Cost	<u>Therm</u>	<u>Rate</u> Gal.
26	Beginning Balance	162,750	\$140,070	\$0.8606	\$0.7875
27	Purchases Received	177,687	\$163,692	\$0.9212	\$0.8430
28	Total Available	340,437	\$303,762	\$0.8923	\$0.8164
29 30	Less Sendout Ending Balance	202,635 137,802	\$180,805 \$122,957	\$0.8923 \$0.8923	\$0.8164 \$0.8164
30		137,002	φ122,937	φ0.0923	
31	January 2021 (Forecasted)	Therms	Cost	Therm	<u>Rate</u> Gal.
32	Beginning Balance	137,802	\$122,957	\$0.8923	\$0.8164
33	Purchases Received	187,074	\$171,841	\$0.9186	\$0.8405
34	Total Available	324,876	\$294,798	\$0.9074	\$0.8303
35 36	Less Sendout Ending Balance	234,594	\$212,874	\$0.9074	\$0.8303
30		90,282	\$81,924	\$0.9074	\$0.8303
37	February 2021 (Forecasted)	Therms	Cost	Therm	<u>Rate</u> Gal.
38	Beginning Balance	90,282	\$81,924	\$0.9074	\$0.8303
39	Purchases Received	159,521	\$146,927	\$0.9211	\$0.8428
40	Total Available	249,803	\$228,851	\$0.9161	\$0.8383
41 42	Less Sendout	192,785	\$176,615	\$0.9161	\$0.8383
42	Ending Balance	57,018	\$52,236	\$0.9161	\$0.8383
43	March 2021 (Forecasted)	Therms	<u>Cost</u>	Therm	<u>Rate</u> <u>Gal.</u>
44	Beginning Balance	57,018	\$52,236	\$0.9161	\$0.8383
45	Purchases Received	144,896	\$146,927	\$1.0140	\$0.9278
46	Total Available	201,914	\$199,163	\$0.9864	\$0.9026
47	Less Sendout	154,400	\$152,296	\$0.9864	\$0.9025
48	Ending Balance	47,514	\$46,867	\$0.9864	\$0.9026
49	April 2021 (Forecasted)	Therms	<u>Cost</u>	Therm	<u>Rate</u> <u>Gal.</u>
50	Beginning Balance	47,514	\$46,867	\$0.9864	\$0.9026
51	Purchases Received	86,861	\$79,637	\$0.9168	\$0.8389
52 52	Total Available	134,376	\$126,504	\$0.9414 \$0.0414	\$0.8614 \$0.8614
53 54	Less Sendout Ending Balance	90,425 43,950	\$85,128 \$41,376	\$0.9414 \$0.9414	\$0.8614 \$0.8614
	-				ψ0.0014
55	AVEF	KAGE WINT	FER RATE - 3	SENDOUT	
56 57					



Cost Total Sendout Total Cost

REDACTED SCHEDULE G

LIBERTY UTILITIES - KEENE DIVISION

PRIOR PERIOD (OVER)/UNDER COLLECTION WINTER PERIOD 2020-2021

		PRIOR	Actual Nov-19	Actual Dec-19	Actual Jan-20	Actual Feb-20	Actual Mar-20	Actual Apr-20	TOTAL
1	PROPANE COSTS PROPANE FIRM SENDOUT (therms)		151,341	200,079	198,858	179,376	131,344	92,394	953,392
2	COMPANY USE (therms)		5,076	5,297	5,806	5,386	4,382	3,737	29,684
3	TOTAL PROPANE SENDOUT (therms)		156,417	205,376	204,664	184,762	135,726	96,131	983,076
5 6	COST PER THERM (WACOG) TOTAL CALCULATED COST OF PROPANE PROPANE ADJUSTMENTS TOTAL COST OF PROPANE	_	\$0.8820 \$137,953 \$3,209 \$141,162	\$0.9404 \$193,134 \$11,602 \$204,736	\$0.9705 \$198,631 (\$3,806) \$194,825	\$0.9633 \$177,980 (\$0) \$177,980	\$0.9163 \$124,364 (\$0) \$124,364	\$0.9249 \$88,913 (\$2,658) \$86,255	\$920,975 \$8,347 \$929,322
8	CNG COSTS TOTAL CNG SENDOUT (therms)								
10 11	CNG DEMAND CHARGES CNG COMMODITY CHARGES CNG ADJUSTMENTS TOTAL CNG COSTS								
13	ACCOUNTING ADJUSTMENT		\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	TOTAL COSTS OF GAS								
15	FPO PREMIUM		\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	RETURN ON INVENTORY		\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$14,126
	REVENUES								
	BILLED FPO SALES (therms) COG FPO RATE	_	1,130 <u>\$0.9692</u> \$1,095	15,187 <u>\$0.9692</u> \$14,719	17,503 \$0.9692 \$16,964	14,648 \$0.9692 \$14,197	15,626 <u>\$0.9692</u> \$15,145	10,836 <u>\$0.9692</u> \$10,502	74,930 0.9692 \$72,622
	BILLED NON-FPO SALES PRIOR MONTH (therms) COG NON-FPO RATE PRIOR MONTH	_	0 \$0.9492 \$0	0 \$0.9492 \$0	243,819 \$0.9492 \$231,433	189,929 \$0.9686 \$183,965	174,264 \$0.9352 \$162,972	119,232 \$0.6906 \$82,342	727,244 0.9085 \$660,711
	BILLED NON-FPO SALES CURRENT MONTH (therms) COG NON-FPO RATE CURRENT MONTH	_	7,355 \$0.9492 \$6,981	175,567 <u>\$0.9492</u> \$166,649	32,145 \$0.9686 \$31,136	20,845 \$0.9352 \$19,495	24,323 \$0.6906 \$16,797	13,431 \$0.4408 \$5,920	273,667 0.9025 \$246,978
	BILLED SALES OTHER PRIOR PERIODS COG OTHER PRIOR PERIODS BLENDED RATE	_	0 \$0.0000 \$0	0 \$0.4843 \$0	0 \$0.4843 \$0	(17,747) \$0.9492 (\$16,845)	(218) \$0.9586 (\$209)	92 \$0.9360 \$86	(17,873) 0.9494 (\$16,968)
25	TOTAL SALES		8,485	190,754	293,467	207,675	213,995	143,591	1,057,968
	TOTAL BILLED REVENUES		\$8,077	\$181,368	\$279,533	\$200,811	\$194,705	\$98,850	\$963,344
	UNBILLED REVENUES (NET)		\$154,760	\$41,801	(\$9,693)	(\$15,563)	(\$86,915)	(\$43,789)	\$40,599
28	TOTAL REVENUES		\$162,836	\$223,169	\$269,839	\$185,248	\$107,789.64	\$55,061	\$1,003,943
29	(OVER)/UNDER COLLECTION		\$17,899	\$39,528	(\$25,322)	\$29,031	\$31,985	\$53,468	\$146,589
30	INTEREST AMOUNT		(\$630)	(\$525)	(\$510)	(\$373)	(\$383)	(\$141)	(\$2,562)
31	FINAL (OVER)/UNDER COLLECTION	(\$170,381)	\$17,269	\$39,003	(\$25,832)	\$28,658	\$31,601	\$53,327	(\$26,354)

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SCHEDULE H

LIBERTY UTILITIES - KEENE DIVISION

INTEREST CALCULATION WINTER PERIOD 2020 - 2021

LINI NO		(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 2 3 4 5	MAY 2020 JUN JUL AUG SEP	(\$26,354) 131 29,433 29,928 30,009	\$0 0 0 0	\$26,521 29,262 414 0 0	\$0 0 0 0	\$166 \$29,393 \$29,848 \$29,928 \$30,009	(\$13,094) 14,762 29,640 29,928 30,009	3.25% 3.25% 3.25% 3.25% 3.25%	(\$35) 40 80 81 81	\$131 29,433 29,928 30,009 30,090
6 7 8 9 10 11 12 13 14	OCT NOV DEC JAN 2021 FEB MAR APR	30,090 30,171 16,156 3,526 1,920 (6,818) (10,631)	0 (14,078) (12,657) (1,614) (8,731) (3,789) 10,642	0 0 0 0 0 0 0	0 0 0 0 0 0	\$30,090 \$16,093 \$3,499 \$1,913 (\$6,811) (\$10,607) \$12	30,090 23,132 9,828 2,719 (2,446) (8,712) (5,310)	3.25% 3.25% 3.25% 3.25% 3.25% 3.25% 3.25%	81 63 27 7 (7) (24) (14) \$380	30,171 16,156 3,526 1,920 (6,818) (10,631) (2)
15 16				NOVEMBER 1, 2020 = EREST AMOUNT FOR N	MAY 2021 - OCTC	DBER 2021				

17	= CO	L. 1, LINE 1	+	COL. 3 LINES 1 TO 6	+	COL. 8, LINES 1 TO 6				
18	=	(26,354)	+	\$56,197	+	328	=	, =	IOVEMBER 1, 2020 ANSFER TO SCHEDULE B, LINI	E 32)

SCHEDULE I

	Liberty Utilities - Keene Division Weather Normalization - Firm Sendout (Therms)														
Period	Actual Actual Normal Actual Normal Actual Firm Calendar Calendar Calendar Actual Unit Normal Normalized Actual Unaccounted Period Sendout Base Use Heat Use Degree Days Degree Days Than Normal Therm/DD Adjustment Heat Load Sendout Use 0.56%														
	(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) * 0.56%	(10) - (11) + (12)		
Nov-19	180,741	43,756	136,985	925	790	135	148.09	(19,992)	116,992	160,748	5,258	878	156,368		
Dec-19	239,889	43,756	196,133	1,164	1,136	28	168.50	(4,718)	191,415	235,171	5,297	1,298	231,172		
Jan-20	238,684	43,756	194,929	1,135	1,328	(193)	171.74	33,146	228,075	271,831	6,035	1,501	267,297		
Feb-20	216,430	43,756	172,674	1,084	1,134	(50)	159.29	7,965	180,639	224,395	6,621	1,230	219,004		
Mar-20	159,619	43,756	115,864	839	990	(151)	138.10	20,853	136,716	180,472	4,548	993	176,917		
Apr-20	113,832	43,756	70,076	664	589	75	105.54	(7,915)	62,161	105,916	3,870	919	102,965		
Total	1,149,195	262,535	886,660	5,811	5,967	(156)		29,338	915,999	1,178,533	31,630	6,819	1,153,723		

SCHEDULE J

				Weather No	Liberty Utilities rmalization - Sale	- Keene Division es (Therms) - Rat	e Residential				
Period	Customers	Sales	Base Load	Heating Load	Monthly Actual Degree Days	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-19	889	40,718	6,927	33,791	925	790	135	36.53	(4,932)	28,859	35,786
Dec-19	924	51,411	6,927	44,485	1,164	1,136	28	38.22	(1,070)	43,415	50,341
Jan-20	927	50,713	6,927	43,786	1,135	1,328	(193)	38.58	7,446	51,232	58,159
Feb-20	869	48,956	6,927	42,029	1,084	1,134	(50)	38.77	1,939	43,968	50,895
Mar-20	930	39,206	6,927	32,279	839	990	(151)	38.47	5,809	38,088	45,015
Apr-20	897	28,940	6,927	22,014	664	589	75	33.15	(2,486)	19,527	26,454
Total		259,944	41,561	218,384	5,811	5,967	(156)	42.98	6,705	225,089	266,650

	Liberty Utilities - Keene Division Weather Normalization - Sales (Therms) - Rate Commercial														
Period	Customers	Sales	Base Load	Heating Load	Monthly Actual Degree Days	Monthly Normal Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD (7)	Weather Adjustment (8)	Normal Heat Load (9)	Normal Firm Billing Cycle Therms (10)				
		(1)	(2)	(3) (1) - (3)	(4)	(5)	(6) (4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)				
Nov-19	334	132,121	35,333	96,788	925	790	135	104.64	(14,126)	82,662	117,995				
Dec-19	344	171,154	35,333	135,821	1,164	1,136	28	116.69	(3,267)	132,554	167,887				
Jan-20	344	164,363	35,333	129,030	1,135	1,328	(193)	113.68	21,941	150,971	186,304				
Feb-20	322	157,388	35,333	122,055	1,084	1,134	(50)	112.60	5,630	127,685	163,018				
Mar-20	342	118,477	35,333	83,143	839	990	(151)	99.10	14,964	98,107	133,440				
Apr-20	328	77,937	35,333	42,604	664	589	75	64.16	(4,812)	37,792	73,125				
Total		821,440	211,999	609,442	5,811	5,967	(156)	130.32	20,329	629,771	841,769				

Summary -	Total	Winter	Season	Sales
Summary	TULAI	VVIIILEI	Season	Jaies

	Actual 2019-2020	Normalized
November	172,839	153,781
December	222,566	218,228
January	215,077	244,463
February	206,344	213,913
March	157,682	178,455
April	106,878	99,579
Total	1,081,385	1,108,419

SCHEDULE K-1

LIBERTY UTILITIES - KEENE DIVISION Typical Residential Heating Bill - Fixed Price Option Program Forecasted 2020-2021 Winter Period vs. Actual 2019-2020 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
12 MONTHS ENDED 04/2020	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
Typical Usage - therms (1) Residential Heating R-3	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
Customer Charge 7/1/2019 - 6/30/2020 5/1/2019 - 6/30/19	\$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
Delivery Charge: All therms @ \$0.5569 \$0.5502	\$21.72	\$38.43	\$45.11	\$57.36	\$49.56	\$36.76	\$248.94	\$19.26	\$9.90	\$5.01	\$3.90	\$4.46	\$6.68	\$49.21	\$298.15
Base Delivery Revenue Total	\$36.92	\$53.63	\$60.31	\$72.56	\$64.76	\$51.96	\$340.14	\$34.28	\$24.92	\$20.21	\$19.10	\$19.66	\$21.88	\$140.05	\$480.19
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		
Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00					\$0.00	\$0.0
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	
Cost of Gas Total	\$37.80	\$66.87	\$78.51	\$99.83	\$86.26	\$63.97	\$433.24		\$18.11	\$7.97			\$5.81	\$79.46	\$512.7
LDAC Rates	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	
LDAC Total	\$1.21	\$2.14	\$2.51	\$3.19	\$2.76	\$2.05	\$13.86		\$1.19	\$0.59			\$0.79	\$5.87	\$19.7
Total Bill	\$76	\$123	\$141	\$176	\$154	\$118	\$787	\$75	\$44	\$29	\$25	\$24	\$28	\$225	\$1,013
12 MONTHS ENDED 04/2021	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter Nov-Apr	Mav-20	Jun-20	Jul-20	Aua-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
Typical Usage - therms (1) Residential Heating R-3	39	69	81	103	89	66	447	35	18	9	7		12		53
Customer Charge 7/1/2020 7/1/2019 - 6/30/202 Delivery Charge:	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$93.00	\$15.20	\$15.20	\$15.50	\$15.50	\$15.50			\$185.4
All therms @ \$0.5678 \$0.5569	\$22.14	\$39.18	\$45.99	\$58.48	\$50.53	\$37.47	\$253.79	\$19.49	\$10.02	\$5.11	\$3.97	\$4.54	\$6.81	\$49.94	\$303.7
Base Delivery Revenue Total	\$37.64	\$54.68	\$61.49	\$73.98	\$66.03	\$52.97	\$346.79	\$34.69	\$25.22	\$20.61	\$19.47	\$20.04	\$22.31	\$142.34	\$489.1
Seasonal Base Delivery Difference from previous year Seasonal Percent Change from previous year							\$6.65 2.0%							\$2.29 1.6%	\$8.9 1.9%
Deferred Revenue Surcharge Rate	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.00					\$0.0000 \$0.00		\$0.00	\$0.0
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	\$0.0
COG Rates Cost of Gas Total	\$1.2300 \$47.97	\$1.2300 \$84.87	\$1.2300 \$99.63	\$1.2300 \$126.69	\$1.2300 \$109.47	\$1.2300 \$81.18	\$1.2300 \$549.81		\$0.6816 \$12.27			\$0.7908 \$6.33		\$0.7066 \$62.89	\$612.7
Seasonal COG Difference from previous year	\$47.97	\$04.0 7	\$99.03	\$120.09	\$109.47	\$01.10	\$116.57	\$ 22.1 4	\$12.27	\$7.12	\$ 3.34	\$0.33	\$9.49	-\$16.57	\$100.0
Seasonal Percent Change from previous year							26.9%							-20.9%	19.5
LDAC Rates	\$0.0603	\$0.0603	\$0.0603	\$0.0603	\$0.0603	\$0.0603	\$0.0603	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	
LDAC Total	\$2.35	\$4.16	\$4.88	\$6.21	\$5.37	\$3.98	\$26.95	\$1.09	\$0.56	\$0.28	\$0.22	\$0.25	\$0.37		\$29.7
Seasonal LDAC Difference from previous year Seasonal Percent Change from previous year							\$13.09 94.4%							-\$3.10 -52.8%	\$9.9 50.69
Total Bill	\$88	\$144	\$166	\$207	\$181	\$138	\$924	\$58	\$38	\$28	\$25	\$27	\$32	\$208	\$1,13
Seasonal Total Bill Difference from previous year	ψÜÜ	ψIII	 	<i>\</i> 201	ψιστ	<i><i>ψ</i>100</i>	\$136.31	ψõõ	400	Ψ20	ψ10	ΨĽΙ	ψUL	-\$17.38	\$118.9
Seasonal Percent Change from previous year							17.3%							-7.7%	11.79
Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Su Seasonal Percent Change resulting from COG	rch.)						0.8% 14.8%							1.0% -7.4%	0.9% 9.9%

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

SCHEDULE K-2

LIBERTY UTILITIES - KEENE DIVISION Typical Residential Heating Bill - Non-Fixed Price Option Program Forecasted 2020-2021 Winter Period vs. Actual 2019-2020 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7) Winter	(8)	(9)	(10)	(11)	(12)	(13)	(14) Summer	(15) Total
2 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
3 Typical Usage - therms (1) 4 <u>Residential Heating R-3</u>	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
5 Customer Charge 7/1/2019 - 6/30/2020 5/1/2019 - 6/30/19 6 Delivery Charge:	\$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
7 All therms @ \$0.5569 \$0.5502	\$21.72	\$38.43	\$45.11	\$57.36	\$49.56	\$36.76	\$248.94	\$19.26	\$9.90	\$5.01	\$3.90	\$4.46	\$6.68	\$49.21	\$298.15
8 Base Delivery Revenue Total	\$36.92	\$53.63	\$60.31	\$72.56	\$64.76	\$51.96	\$340.14	\$34.28	\$24.92	\$20.21	\$19.10	\$19.66	\$21.88	\$140.05	\$480.19
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	\$0.9492	\$0.9492	\$0.9686	\$0.9352	\$0.6906	\$0.4408	\$0.8229	\$1.1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.8928	
12 Cost of Gas Total	\$37.02	\$65.49	\$78.46	\$96.33	\$61.46	\$29.09	\$367.85	\$38.75	\$18.11	\$7.97	\$4.95	\$3.87	\$5.81	\$79.46	\$447.31
13 LDAC Rates	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	A10 70
14 LDAC Total	\$1.21	\$2.14	\$2.51	\$3.19	\$2.76	\$2.05	\$13.86	\$2.31	\$1.19	\$0.59	\$0.46	\$0.53	\$0.79	\$5.87	\$19.73
15 Total Bill	\$75	\$121	\$141	\$172	\$129	\$83	\$722	\$75	\$44	\$29	\$25	\$24	\$28	\$225	\$947
16 17 12 MONTHS ENDED 04/2021	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
18 Typical Usage - therms (1) 19 Residential Heating R-3	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
20 Customer Charge 7/1/2020 7/1/2019 - 6/30/2020 21 Delivery Charge:	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$93.00	\$15.20	\$15.20	\$15.50	\$15.50	\$15.50	\$15.50	\$92.40	\$185.40
22 All therms @ \$0.5678 \$0.5569	\$22.14	\$39.18	\$45.99	\$58.48	\$50.53	\$37.47	\$253.79	\$19.49	\$10.02	\$5.11	\$3.97	\$4.54	\$6.81	\$49.94	\$303.73
23 Base Delivery Revenue Total 24 Seasonal Base Delivery Difference from previous year	\$37.64	\$54.68	\$61.49	\$73.98	\$66.03	\$52.97	\$346.79 \$6.65	\$34.69	\$25.22	\$20.61	\$19.47	\$20.04	\$22.31	\$142.34 \$2.29	\$489.13 \$8.94
25 Seasonal Percent Change from previous year							2.0%							1.6%	1.9%
26 Deferred Revenue Surcharge Rate	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.00	\$0.00
27 Deferred Revenue Surcharge Total	\$0.00	ψ 0.00	\$0.00	\$0.00	\$0.00	\$0.00	φ υ.υυ	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
28 COG Rates 29 Cost of Gas Total	\$1.2100 \$47.19	\$1.2100 \$83.49	\$1.2100 \$98.01	\$1.2100 \$124.63	\$1.2100 \$107.69	\$1.2100 \$79.86	\$1.2100 \$540.87	\$0.6326 \$22.14	\$0.6816 \$12.27	\$0.7908 \$7.12	\$0.7908 \$5.54	\$0.7908 \$6.33	\$0.7908 \$9.49	\$0.7066 \$62.89	\$603.76
30 Seasonal COG Difference from previous year	÷10	400. PD	400.01	÷.230	÷		\$173.02		¥.===/	÷2	¥0.04	÷0.00	÷0.40	-\$16.57	\$156.45
31 Seasonal Percent Change from previous year							47.0%							-20.9%	35.0%
32 LDAC Rates	\$0.0603	\$0.0603	\$0.0603	\$0.0603	\$0.0603	\$0.0603	\$0.0603	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.03	
33 LDAC Total 34 Seasonal LDAC Difference from previous year	\$2.35	\$4.16	\$4.88	\$6.21	\$5.37	\$3.98	\$26.95 \$13.09	\$1.09	\$0.56	\$0.28	\$0.22	\$0.25	\$0.37	\$2.77 -\$3.10	\$29.72 -\$19.73
35 Seasonal Percent Change from previous year							3.6%							-3.9%	-4.4%
36 Total Bill	\$87	\$142	\$164	\$205	\$179	\$137	\$915	\$58	\$38	\$28	\$25	\$27	\$32	\$208	\$1,123
37 Seasonal Total Bill Difference from previous year 38 Seasonal Percent Change from previous year							\$192.76 26.7%							-\$17.38 -7.7%	\$175.38 18.5%
39 Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surc	h.)						0.9%							1.0%	0.9%
40 Seasonal Percent Change resulting from COG 41 Seasonal Percent Change resulting from LDAC							24.0% 1.8%							-7.4% -1.4%	16.5% -2.1%

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

SCHEDULE L-1

LIBERTY UTILITIES - KEENE DIVISION Typical Commercial Bill - Fixed Price Option Program Forecasted 2020-2021 Winter Period vs. Actual 2019-2020 Winter Period

			(1)	(2)	(3)	(4)	(5)	(6)	(7) Winter	(8)	(9)	(10)	(11)	(12)	(13)	(14) Summer	(15) Total
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 - the Commercial G-41	rms		133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,
Customer Charge Delivery Charge:	7/1/2019 - 6/30/20	020 5/1/2019 - 6/30/19	\$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	\$67
First 100 therms @ Over 100 therms @	\$0.4621 \$0.3104	\$0.4566 \$0.3067	\$46.21 \$10.24	\$46.21 \$46.25	\$46.21 \$64.25	\$46.21 \$94.05	\$46.21 \$82.88	\$46.21 \$50.28	\$277.26 \$347.95	\$9.13 \$33.12	\$9.13 \$11.04	\$9.24 \$0.62	\$7.39 \$0.00	\$8.32 \$0.00	\$9.24 \$1.86	\$52.45 \$46.64	\$32 \$39
Base Delivery Revenue Tota			\$112.81	\$148.82	\$166.82	\$196.62	\$185.45	\$152.85	\$963.37	\$97.93	\$75.85	\$66.22	\$63.75	\$64.68	\$67.46	\$435.89	\$1,39
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)	
Deferred Revenue Surcharge Tota			\$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			\$0.9692 \$128.90	\$0.9692 \$241.33	\$0.9692 \$297.54	\$0.9692 \$390.59	\$0.9692 \$355.70	\$0.9692 \$253.93	\$0.9692 \$1,667.99	\$1.1071 \$141.71	\$1.0063 \$56.35	\$0.8854 \$19.48	\$0.7068 \$11.31	\$0.4843 \$8.72	\$0.4843 \$12.59	\$0.9405 \$250.16	\$1,9 [,]
DAC Rates			\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	0.0
LDAC Total			\$6.36	\$11.90	\$14.67	\$19.26	\$17.54	\$12.52	\$82.26	\$9.69	\$4.24	\$1.67	\$1.21	\$1.36	\$1.97		\$1
Total Bill			\$248	\$402	\$479	\$606	\$559	\$419	\$2,714	\$249	\$136	\$87	\$76	\$75	\$82	\$706	\$3
12 MONTHS ENDED 04/2021			Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oc
Typical Usage - the	rms		133	249	307	403	367	262	1,721	128	56	22	16	. 18	26	266	
Commercial G-41			100	240	507	400	007	202	1,721	120	50	22	10	10	20	200	
Customer Charge Delivery Charge:	7/1/2020	7/1/2019 - 6/30/2020	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$344.76	\$56.36	\$56.36	\$57.46	\$57.46	\$57.46	\$57.46	\$342.56	\$68
First 100 therms @ Over 100 therms @	\$0.4711 \$0.3165	\$0.4621 \$0.3104	\$47.11 \$10.44	\$47.11 \$47.16	\$47.11 \$65.52	\$47.11 \$95.90	\$47.11 \$84.51	\$47.11 \$51.27	\$282.66 \$354.80	\$9.24 \$33.52	\$9.24 \$11.17	\$9.42 \$0.63	\$7.54 \$0.00	\$8.48 \$0.00	\$9.42 \$1.90	\$53.34 \$47.22	\$33 \$40
Base Delivery Revenue Tota			\$115.01	\$151.73	\$170.09	\$200.47	\$189.08	\$155.84	\$982.22	\$99.12	\$76.77	\$67.51	\$65.00	\$65.94	\$68.78	\$443.12	\$1,4
Seasonal Base Delivery Difference fro Seasonal Percent Change from previo									\$18.85 2.0%							\$7.23 1.7%	\$
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)	
Deferred Revenue Surcharge Tota			\$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			\$1.2300 \$163.59	\$1.2300 \$306.27	\$1.2300 \$377.61	\$1.2300 \$495.69	\$1.2300 \$451.41	\$1.2300 \$322.26	\$1.2300 \$2.116.83	\$0.6326 \$80.97	\$0.6816 \$38.17	\$0.7908 \$17.40	\$0.7908 \$12.65	\$0.7908 \$14.23	\$0.7908 \$20.56		\$2.3
Seasonal COG Difference from previo Seasonal Percent Change from previo			<i><i><i></i></i></i>	ÇOUULI	¢orrior	\$100100	0.0111	ţ022.120	\$448.84 26.9%	400.01	çooni	•	¥12.00	¢14120	¢20.00	-\$66.18 -26.5%	\$3
DAC Rates			\$0.0549	\$0.0549	\$0.0549	\$0.0549	\$0.0549	\$0.0549	\$0.0549	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	
LDAC Total			\$7.30	\$13.67	\$16.85	\$22.12	\$20.15	\$14.38	\$94.47 \$12.21	\$6.12	\$2.68	\$1.05	\$0.76	\$0.86	\$1.24	\$12.71	\$1 \$3
Seasonal LDAC Difference from previ Seasonal Percent Change from previo									\$12.21 14.8%							-\$7.43 -36.9%	<u>م</u>
Total Bill			\$286	\$472	\$565	\$718	\$661	\$492	\$3,194	\$186	\$118	\$86	\$78	\$81	\$91	\$640	\$
	nal Total Bill Difference from previous year nal Percent Change from previous year								\$479.89 17.7%							-\$66.38 -9.4%	\$
Seasonal Percent Change resulting fr	nal Percent Change resulting from Base Rates (incl. Def. Revenue Surd								0.7%							1.0%	
easonal Percent Change resulting free to the second percent change									16.5% 0.4%							-9.4% -1.1%	

SCHEDULE L-2

LIBERTY UTILITIES - KEENE DIVISION Typical Commercial Bill - Non-Fixed Price Option Program Forecasted 2020-2021 Winter Period vs. Actual 2019-2020 Winter Period

Communication Taylor Usage Taylor Taylor <thtaylor< th=""> <thtaylor< th=""> Tay</thtaylor<></thtaylor<>					(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Commercial C-11 Delivery Change Delivery Change Deliver	1 2 12 MONTHS ENDE	ED 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		
behavy Chargie First 100 herms @ 50.4621 50.4521 546.21 547.61 557.81 557.13 551.25 556.25 562.25 562.55 <td>3 4 Commercial G-41</td> <td>Typical Usage - th</td> <td>nerms</td> <td></td> <td>133</td> <td>249</td> <td>307</td> <td>403</td> <td>367</td> <td>262</td> <td>1,721</td> <td>128</td> <td>56</td> <td>22</td> <td>16</td> <td>18</td> <td>26</td> <td>266</td> <td>1,987</td>	3 4 Commercial G-41	Typical Usage - th	nerms		133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
First 100 therms @ 50.3101 50.421 54.21		7	/1/2019 - 6/30/2	020 5/1/2019 - 6/30/19	\$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
Deferred Revenue Surcharge Rate 50.0000 \$0.0000 <th< td=""><td>6 Delivery Charge: 7 8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	6 Delivery Charge: 7 8																		
Deferred Revenue Surcharge Rate 50.0000 \$0.0000 <th< td=""><td>9 Base Delivery Rev</td><td>venue Total</td><td></td><td></td><td>\$112.81</td><td>\$148.82</td><td>\$166.82</td><td>\$196.62</td><td>\$185.45</td><td>\$152.85</td><td>\$963.37</td><td>\$97.93</td><td>\$75.85</td><td>\$66.22</td><td>\$63.75</td><td>\$64.68</td><td>\$67.46</td><td>\$435.89</td><td>\$1.399.26</td></th<>	9 Base Delivery Rev	venue Total			\$112.81	\$148.82	\$166.82	\$196.62	\$185.45	\$152.85	\$963.37	\$97.93	\$75.85	\$66.22	\$63.75	\$64.68	\$67.46	\$435.89	\$1.399.26
Deferred Revenue Surcharge Total 95.00 50.00																		•	
Obs: Total Size 24											\$0.00							\$0.00	\$0.00
Obs: Total Size 24	2 COG Rates				\$0.9492	\$0.9492	\$0.9686	\$0.9352	\$0.6906	\$0.4408	\$0.8168	\$1.1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.9405	
5 DAC Total 95.36 911.90 914.67 919.26 917.54 912.25 98.69 94.24 91.67 91.21 91.36 91.21 910.21	3 Cost of Gas Total				\$126.24	\$236.35	\$297.36	\$376.89	\$253.45	\$115.49	\$1,405.78	\$141.71	\$56.35	\$19.48	\$11.31	\$8.72	\$12.59	\$250.16	\$1,655.94
First 100 First 100 <t< td=""><td>4 LDAC Rates</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-\$6.8260</td></t<>	4 LDAC Rates																		-\$6.8260
Image: second	5 LDAC Total				\$6.36	\$11.90	\$14.67	\$19.26	\$17.54	\$12.52	\$82.25	\$9.69	\$4.24	\$1.67	\$1.21	\$1.36	\$1.97	\$20.14	\$102.39
I Mon-ths ENDED 94/2021 Non-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 Non-Apr May-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20 May-Oct Non-Apr 3 Typical Usage - therms 133 2.49 307 4.03 367 2.62 1,721 128 56 2.2 16 18 2.6 2.66 3.67 0 Customer Charge 7/1/2019 - 6/30/2020 \$57.46 \$57.45 \$58.43 \$58.23 <td>4 Total Bill</td> <td></td> <td></td> <td></td> <td>\$245</td> <td>\$397</td> <td>\$479</td> <td>\$593</td> <td>\$456</td> <td>\$281</td> <td>\$2,451</td> <td>\$249</td> <td>\$136</td> <td>\$87</td> <td>\$76</td> <td>\$75</td> <td>\$82</td> <td>\$706</td> <td>\$3,158</td>	4 Total Bill				\$245	\$397	\$479	\$593	\$456	\$281	\$2,451	\$249	\$136	\$87	\$76	\$75	\$82	\$706	\$3,158
3 Typical Usage - therms 133 249 307 403 367 262 1.721 128 56 22 16 18 26 266 0 Customer Charge 71/12020 71/12019 - 6/302020 \$57.46 \$57	6															0 00	0.100		
j Commercial G-41 Second Sec	7 12 MONTHS ENDE	ED 04/2021			Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	May-Oct	Nov-Oct
I Delivery Charge: First 100 therms @ \$0.4711 \$47.11	8 9 <u>Commercial G-41</u>	Typical Usage - th	nerms		133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
2 First 100 therms @ \$0.4711 \$47.11	20 Customer Charge 21 Delivery Charge:		7/1/2020	7/1/2019 - 6/30/2020	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$344.76	\$56.36	\$56.36	\$57.46	\$57.46	\$57.46	\$57.46	\$342.56	\$687.32
Base Delivery Revenue Total \$115.01 \$151.73 \$170.09 \$200.47 \$189.08 \$155.84 \$99.12 \$76.77 \$67.51 \$665.00 \$66.78 \$443.12 \$1/25.00 Seasonal Base Delivery Difference from previous year \$0.000 \$0.0000	2				•											• • •			\$336.00
S Seasonal Base Delivery Difference from previous year \$1.210 \$0.0000 \$0	3	Over 100 therms @	\$0.3165	\$0.3104	\$10.44	\$47.16	\$65.52		\$84.51			•	•		\$0.00	\$0.00	• • • •		• • •
3 Seasonal Percent Change from previous year 2.0% 1.7% 1.9% 7 Deferred Revenue Surcharge Rate \$0.0000 \$0.000 \$0.000			ous vear		\$115.01	\$151.73	\$170.09	\$200.47	\$189.08	\$155.84		\$99.12	\$76.77	\$67.51	\$65.00	\$65.94	\$68.78		
Beferred Revenue Surcharge Total \$0.00																			1.9%
COG Rates \$1.2100																			
Cost of Gas Total \$160.93 \$301.29 \$371.47 \$487.63 \$444.07 \$317.02 \$2,082.41 \$80.97 \$38.17 \$17.40 \$12.65 \$14.23 \$20.56 \$183.98 \$2,286.35 Seasonal COG Difference from previous year \$676.63 \$444.07 \$317.02 \$2,082.41 \$80.97 \$38.17 \$17.40 \$12.65 \$14.23 \$20.56 \$183.98 \$2,286.35 Seasonal Percent Change from previous year \$0.0549 \$0.0549 \$0.0549 \$0.0549 \$0.0549 \$0.0549 \$0.0478 </td <td>28 Deferred Revenue</td> <td>e Surcharge Total</td> <td></td> <td></td> <td>\$0.00</td>	28 Deferred Revenue	e 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
1 Seasonal Percent Change from previous year \$676.63 -\$66.18 \$610.45 2 Seasonal Percent Change from previous year 48.1% -26.5% 36.9% 3 LDAC Rates \$0.0549 \$0.0549 \$0.0549 \$0.0549 \$0.0478																			
2 Seasonal Percent Change from previous year 48.1% -26.5% 36.9% 3 LDAC Rates \$0.0549 \$0.0549 \$0.0549 \$0.0549 \$0.0549 \$0.0478 <					\$160.93	\$301.29	\$371.47	\$487.63	\$444.07	\$317.02		\$80.97	\$38.17	\$17.40	\$12.65	\$14.23	\$20.56		\$2,266.39 \$610.45
4 LDAC Total \$7.30 \$13.67 \$16.85 \$22.12 \$20.15 \$14.38 \$94.47 \$6.12 \$2.68 \$1.05 \$0.76 \$0.86 \$1.24 \$12.71 \$107.15 Seasonal DAC Difference from previous year \$12.21 \$10.71 \$107.15 \$12.21 \$10.71 \$107.15 \$10.90 \$12.21 \$107.15 \$107.15 \$107.15 \$107.15 \$107.15 \$107.15 \$10.90 \$12.21 \$107.15 \$																			
5 Seasonal LDAC Difference from previous year \$12.22 -\$7.43 \$4.75 5 Seasonal Percent Change from previous year 14.9% -\$6.9% 4.7% 7 Total Bill \$283 \$467 \$558 \$710 \$653 \$487 \$3,159 \$186 \$118 \$86 \$78 \$81 \$91 \$660 \$3,799 8 Seasonal Percent Change from previous year \$707.70 -\$66.38 \$641.32 \$2.9% -9.4% 20.3% -9.4% 20.3% -9.4% 20.3% -9.4% 10.3% 0.8% -9.4% 10.3% 0.8% -9.4% 10.3% <	3 LDAC Rates																		
5 Seasonal Percent Change from previous year 14.9% 14.9% 14.9% 4.7% 7 Total Bill \$283 \$467 \$558 \$710 \$663 \$487 \$3,159 \$186 \$118 \$66 \$78 \$81 \$91 \$660 \$3,799 3 Seasonal Percent Change from previous year \$707.70 \$70.28.9% \$2.8.9% \$2.9.% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$0.3% \$9.4.9.4% \$9.4.9.4% \$0.3% \$9.4.9.4% \$9.4.9.4% \$0.3% \$9.4.9.4% \$9.4.9.4% \$0.3% \$9.4.9.4% \$9.4.9.4% \$0.3% \$9.4.9.4% \$9.4.9.4% \$0.3% \$9.4.9.4% \$9.4.9.4% \$9.4.9.4% \$9.4.9.4% \$9.4.9.4% \$9.4.9.4% \$9.4.9.4% \$9.4.9.4% \$9.4.% \$9.4.9.4%		fference from previous veg	r		\$7.30	\$13.67	\$16.85	\$22.12	\$20.15	\$14.38		\$6.12	\$2.68	\$1.05	\$0.76	\$0.86	\$1.24		
3 Seasonal Total Bill Difference from previous year \$707.70 -\$66.38 \$641.32 9 Seasonal Percent Change from previous year 28.9% -9.4% 20.3% 0 Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.) 0.8% 1.0% 1 Seasonal Percent Change resulting from COG 0.5% -9.4% 19.4%																			
3 Seasonal Percent Change from previous year 29.3% -9.4% 20.3% 0 Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.) 0.8% 1.0% 0.8% 1 Seasonal Percent Change resulting from COG 0.5% -9.4% 10.4% 10.4%					\$283	\$467	\$558	<u>\$71</u> 0	\$653	\$487		\$186	\$118	\$86	\$78	\$81	\$91		
D Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.) 0.8% 1 Seasonal Percent Change resulting from COG 0.5%																			
	0 Seasonal Percent C	Change resulting from Base	e Rates (incl. De	ef. Revenue Surch.)							0.8%							1.0%	0.8%
											0.5% 3.9%							-9.4% -1.1%	19.3% 0.2%

SCHEDULE M

				IBERTY UTILITIEs	-				
I			Percent	cai COG Compans	011-1 FO VS. NC	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
2019-2020	\$0.9692	\$0.02	7.08%	74,930	\$1,499	\$433	\$0.9085	\$406	\$27
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	\$1,203	\$2.1253	\$1,143	\$59
2010-2011	FPO not off	ered due to Sel	kirk terminal em	bargo					
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

APPENDIX 1

MONT BELVIEU PROPANE FUTURES - 09/11/20 CLOSE

FUTURES OPTIONS

Trade Date:

Friday, 11 Sep 2020 (Final)

All market data contained within the CME Group website should be considered as a reference only and should not to, real-time market data feeds. Settlement prices on instruments without open interest or volume are provided for Platform (MDP). These prices are not based on market activity.

MONTH	OPEN	HIGH	LOW	LAST	CHANGE	SETTLE	ESTIMATED VO
SEP 20	-	-	-	-	+.00988	.47482	
OCT 20	-	-	-	-	+.01500	.47000	
NOV 20	-	-	-	-	+.01313	.47688	
DEC 20	-	-	-	-	+.01188	.48313	
JAN 21	-	-	-	-	+.00875	.49313	
FEB 21	-	-	-	-	+.00688	. 49438	
MAR 21	-	-	-	-	+.00625	.47875	
APR 21	-	-	-	-	+.00500	.46250	

APPENDIX 2

ENTERPRISE TE PRODUCTS PIPELINE FERC TARIFF 54.44.0 - EFFECTIVE 6/6/20

ITEM NO. 135 Non	-Incentive Rates fo	or Propane				
	Origin					
Destination	Arcadia (Bienville Parish, LA)	Floreffe Junction (Allegheny Co., PA)	Mont Belvieu (Chambers Co., TX)	Tappan Lake (Harrison Co., OH), Todhunter (Butler Co., OH) & Follansbee (Brooke Co., West Virginia)		
Arcadia (Bienville Parish, LA)			243.71			
Coshocton (Coshocton Co., OH)	696.43		743.98			
Dexter (Stoddard Co., MO)			353.50			
Du Bois (Clearfield Co., PA)	779.47 (1)	399.62 (1)(2)	825.94 (1)	399.62 (1)		
Finger Lakes (Schuyler Co., NY)	831.22	581.09	877.95	602.78		
Fontaine (Green Co., AR)			332.11			
Greensburg (Westmoreland Co., PA)	732.98 (1)	399.62 (1)(2)	779.47 (1)	399.62 (1)		
Harford Mills (Cortland Co., NY)		561.50 (1)	880.93 (1)	584.58 (1)		
Kingsland (Cleveland Co., AR)			281.68			
Lebanon (Boone Co., IN)			416.90 (4)			
North Little Rock (Pulaski Co., AR)			297.19			
Oneonta (Otsego Co., NY)		607.83	951.89 (1)	627.44 (1)		
Princeton (Gibson Co., IN)	419.57		453.81			
Schaefferstown (Lebanon Co., PA)		589.20 (2)	890.40	581.39		
Selkirk (Albany Co., NY)		659.48	(1012.12 (1))	661.20 (1)		
Seymour (Jackson Co., IN)			396.15			
Sinking Spring (Berks Co., PA)		589.20 (2)	890.40	581.39		
Todhunter Truck Terminal (Butler Co., OH)	619.09		666.64			
Twin Oaks(Delaware Co., PA)		725.13 (2) (3)		725.13 (3)		
Watkins Glen (Schuyler Co., NY)	789.18 (1)	540.46 (1)	835.88 (1)	565.02 (1)		
West Memphis (Crittenden Co., AR)			353.50 (4)			
Monee (Will Co., IL)			1499.60 (7)			

RATES (In Cents-per-bbl.) [U] All rates are unchanged.

APPENDIX 3A

Northern Gas Transport, Inc. Box 106 Lyndonville, VT 05851-0106 1-800-648-1075 FAX: 802-626-5039

September 15, 2020

To: All Customers

Re: Fuel Surcharge Notice

As of Monday, September 14, 2020 the Department of Energy New England average price per gallon of diesel fuel was \$2.605. All deliveries invoiced from Sunday, September 20, 2020 through Saturday, September 26, 2020 will be line item assessed at 4.5% fuel surcharge. Thank you and should you have any questions, please contact Susan Noyes at 1-800-648-1075 extension 223.

Best Regards,

APPENDIX 3B

Northern Gas Transport Inc. - Selkirk to Keene

	Base	Base	Fuel Surcharge		Total	Total Rate
Gallons	Rate	Charge	Rate	Surcharge	Charge	Per Gallon
9,200	\$0.0865	\$795.80	1.00%	\$7.96	\$803.76	\$0.0874
9,200	\$0.0865	\$795.80	2.00%	\$15.92	\$811.72	\$0.0882
9,200	\$0.0865	\$795.80	2.50%	\$19.90	\$815.70	\$0.0887
9,200	\$0.0865	\$795.80	3.00%	\$23.87	\$819.67	\$0.0891
9,200	\$0.0865	\$795.80	3.50%	\$27.85	\$823.65	\$0.0895
9,200	\$0.0865	\$795.80	4.00%	\$31.83	\$827.63	\$0.0900
9,200 9,200	\$0.0865 \$0.0865	\$795.80 \$795.80	4.50% 5.00%	\$35.81 \$39.79	\$831.61 \$835.59	\$0.0904 \$0.0908
9,200	\$0.0865 \$0.0865	\$795.80 \$795.80	5.50%	\$43.77	\$839.57	\$0.0903
9,200	\$0.0865	\$795.80	6.00%	\$47.75	\$843.55	\$0.0917
9,200	\$0.0865	\$795.80	6.50%	\$51.73	\$847.53	\$0.0921
9,200	\$0.0865	\$795.80	7.00%	\$55.71	\$851.51	\$0.0926
9,200	\$0.0865	\$795.80	7.50%	\$59.69	\$855.49	\$0.0930
9,200	\$0.0865	\$795.80	8.00%	\$63.66	\$859.46	\$0.0934
9,200	\$0.0865	\$795.80	8.50%	\$67.64	\$863.44	\$0.0939
9,200	\$0.0865	\$795.80	9.00%	\$71.62	\$867.42	\$0.0943
9,200	\$0.0865	\$795.80	9.50%	\$75.60	\$871.40	\$0.0947
9,200 9,200	\$0.0865 \$0.0865	\$795.80 \$795.80	10.00% 10.50%	\$79.58 \$83.56	\$875.38 \$879.36	\$0.0952 \$0.0956
9,200	\$0.0865	\$795.80 \$795.80	11.00%	\$87.54	\$883.34	\$0.0950
9,200	\$0.0865	\$795.80	11.50%	\$91.52	\$887.32	\$0.0964
9,200	\$0.0865	\$795.80	12.00%	\$95.50	\$891.30	\$0.0969
9,200	\$0.0865	\$795.80	12.50%	\$99.48	\$895.28	\$0.0973
9,200	\$0.0865	\$795.80	13.00%	\$103.45	\$899.25	\$0.0977
9,200	\$0.0865	\$795.80	13.50%	\$107.43	\$903.23	\$0.0982
9,200	\$0.0865	\$795.80	14.00%	\$111.41	\$907.21	\$0.0986
9,200	\$0.0865	\$795.80	14.50%	\$115.39	\$911.19	\$0.0990
9,200	\$0.0865	\$795.80	15.00%	\$119.37	\$915.17	\$0.0995
9,200	\$0.0865 \$0.0865	\$795.80 \$705.80	15.50% 16.00%	\$123.35	\$919.15 \$923.13	\$0.0999 \$0.1003
9,200 9,200	\$0.0865 \$0.0865	\$795.80 \$795.80	16.50%	\$127.33 \$131.31	\$923.13 \$927.11	\$0.1003 \$0.1008
9,200	\$0.0865	\$795.80	17.00%	\$135.29	\$931.09	\$0.1012
9,200	\$0.0865	\$795.80	17.50%	\$139.27	\$935.07	\$0.1016
9,200	\$0.0865	\$795.80	18.00%	\$143.24	\$939.04	\$0.1021
9,200	\$0.0865	\$795.80	18.50%	\$147.22	\$943.02	\$0.1025
9,200	\$0.0865	\$795.80	19.00%	\$151.20	\$947.00	\$0.1029
9,200	\$0.0865	\$795.80	19.50%	\$155.18	\$950.98	\$0.1034
9,200	\$0.0865	\$795.80	20.00%	\$159.16	\$954.96	\$0.1038
9,200	\$0.0865	\$795.80	20.50%	\$163.14	\$958.94	\$0.1042
9,200	\$0.0865	\$795.80	21.00%	\$167.12	\$962.92	\$0.1047
9,200 9,200	\$0.0865 \$0.0865	\$795.80 \$795.80	21.50% 22.00%	\$171.10 \$175.08	\$966.90 \$970.88	\$0.1051 \$0.1055
9,200	\$0.0865	\$795.80 \$795.80	22.50%	\$179.06	\$974.86	\$0.1055
9,200	\$0.0865	\$795.80	23.00%	\$183.03	\$978.83	\$0.1064
9,200	\$0.0865	\$795.80	23.50%	\$187.01	\$982.81	\$0.1068
9,200	\$0.0865	\$795.80	24.00%	\$190.99	\$0.06	\$0.0000
9,200	\$0.0865	\$795.80	24.50%	\$194.97	\$990.77	\$0.1077
9,200	\$0.0865	\$795.80	25.00%	\$198.95	\$994.75	\$0.1081
9,200	\$0.0865	\$795.80	25.50%	\$202.93	\$998.73	\$0.1086
9,200	\$0.0865	\$795.80	26.00%	\$206.91	\$1,002.71	\$0.1090
9,200	\$0.0865 \$0.0865	\$795.80 \$705.80	26.50%	\$210.89 \$214.87	\$1,006.69 \$1,010.67	\$0.1094 \$0.1000
9,200 9,200	\$0.0865	\$795.80 \$795.80	27.00% 27.50%	\$214.87 \$218.85	\$1,010.67 \$1,014.65	\$0.1099 \$0.1103
9,200	\$0.0865	\$795.80	28.00%	\$222.82	\$1,018.62	\$0.1107
9,200	\$0.0865	\$795.80	28.50%	\$226.80	\$1,022.60	\$0.1112
9,200	\$0.0865	\$795.80	29.00%	\$230.78	\$1,026.58	\$0.1116
9,200	\$0.0865	\$795.80	29.50%	\$234.76	\$1,030.56	\$0.1120
9,200	\$0.0865	\$795.80	30.00%	\$238.74	\$1,034.54	\$0.1125
9,200	\$0.0865	\$795.80	30.50%	\$242.72	\$1,038.52	\$0.1129
9,200	\$0.0865	\$795.80	31.00%	\$246.70	\$1,042.50	\$0.1133
9,200	\$0.0865	\$795.80 \$705.80	31.50%	\$250.68	\$1,046.48	\$0.1137
9,200 9,200	\$0.0865 \$0.0865	\$795.80 \$795.80	32.00% 32.50%	\$254.66 \$258.64	\$1,050.46 \$1,054.44	\$0.1142 \$0.1146
9,200	\$0.0865	\$795.80 \$795.80	33.00%	\$262.61	\$1,058.41	\$0.1150
9,200	\$0.0865	\$795.80	33.50%	\$266.59	\$1,062.39	\$0.1155
9,200	\$0.0865	\$795.80	34.00%	\$270.57	\$1,066.37	\$0.1159
9,200	\$0.0865	\$795.80	34.50%	\$274.55	\$1,070.35	\$0.1163
9,200	\$0.0865	\$795.80	35.00%	\$278.53	\$1,074.33	\$0.1168
9,200	\$0.0865	\$795.80	35.50%	\$282.51	\$1,078.31	\$0.1172
9,200	\$0.0865	\$795.80	36.00%	\$286.49	\$1,082.29	\$0.1176
9,200	\$0.0865	\$795.80	36.50%	\$290.47	\$1,086.27	\$0.1181
9,200	\$0.0865 \$0.0865	\$795.80 \$705.80	37.00%	\$294.45 \$208.43	\$1,090.25 \$1,094.23	\$0.1185 \$0.1189
9,200	\$0.0865 \$0.0865	\$795.80 \$795.80	37.50% 38.00%	\$298.43 \$302.40	\$1,094.23 \$1,098.20	\$0.1189 \$0.1194
9,200 9,200	\$0.0865 \$0.0865	\$795.80 \$795.80	38.00% 38.50%	\$302.40 \$306.38	\$1,098.20 \$1,102.18	\$0.1194 \$0.1198
9,200	\$0.0865	\$795.80 \$795.80	39.00%	\$310.36	\$1,102.18 \$1,106.16	\$0.1198
9,200	\$0.0865	\$795.80	39.50%	\$314.34	\$1,110.14	\$0.1202
9,200	\$0.0865	\$795.80	40.00%	\$318.32	\$1,114.12	\$0.1211