STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Docket No. DE 23-044

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty 2023 Energy Service Solicitation

DIRECT TESTIMONY

OF

TYLER CULBERTSON

AND

JAMES M. KING

May 30, 2023



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I.	INTRODUCTION AND QUALIFICATIONS

- 2 Q. Mr. Culbertson, please state your full name, business address, and position.
- 3 A. My name is Tyler J Culbertson and my business address is 15 Buttrick Road,
- 4 Londonderry, New Hampshire. I am the Director of Rates and Regulatory Affairs for
- 5 Liberty Utilities Service Corp. ("LUSC") and am responsible for providing rate-related
- services for Liberty Utilities (EnergyNorth Natural Gas) Corp. and Liberty Utilities
- 7 (Granite State Electric) Corp. ("Liberty" or "the Company").
- 8 Q. Please describe your educational background and training.
- 9 A. I graduated from the University of Iowa in 2009 with a Bachelor of Science degree in
- Accounting, and I have held an active Certified Public Accountant ("CPA") license since
- 11 2012.

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- 12 Q. Please describe your professional background.
- 13 A. I joined LUSC in May 2023. Prior to my employment at LUSC, I was employed by DCP
- Midstream as the Senior Manager of Regulatory Affairs from 2015 to 2023. My
- responsibility at DCP Midstream was to ensure company-wide compliance with the
- economic regulations of the Federal Energy Regulatory Commission and various state
- regulatory agencies. From 2014 to 2015, I was a Senior Rate Analyst for Tallgrass
- Energy, and from 2010 to 2014 I was a Rate Analyst for SourceGas (now Black Hills
- 19 Energy).

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- 1 Q. Have you previously testified before the New Hampshire Public Utilities
- 2 Commission ("Commission")?
- 3 A. No, this is my first time testifying before the Commission.
- 4 Q. Mr. King, please state your full name and business address.
- 5 A. My name is James M. King. My business address is 15 Buttrick Road, Londonderry,
- 6 New Hampshire.
- 7 Q. Please state by whom you are employed.
- 8 A. I am employed by Liberty Utilities Service Corp. ("LUSC") as an Analyst II, Rates and
- 9 Regulatory Affairs. LUSC provides local utility management, shared services, and
- support to Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty ("Liberty" or "the
- 11 Company") and the other regulated water, wastewater, natural gas, and electric utilities
- commonly owned and operated by Liberty Utilities as affiliates of the Company. In my
- position I am responsible for providing rate-related services to the Company.
- 14 O. Please describe your professional and educational background.
- 15 A. I joined Liberty in September 2022. Prior to joining Liberty, I was employed by the
- Massachusetts Department of Public Utilities from 2014 through 2022. I held positions
- as an Economist III and Economist II in the Rates and Revenue Requirements Division
- where I was responsible for the review and analysis of base distribution rate cases, as
- well as other rate reconciliation mechanisms presented to the Department from
- 20 Massachusetts' gas, electric, and water companies. I graduated from Franklin and
- 21 Marshall College with a Bachelor of Social Science in Government and Economics.

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- 1 Q. Have you previously testified in regulatory proceedings before the Commission?
- 2 A. Yes, I have testified on multiple occasions before this Commission.

3 II. OVERVIEW

- 4 Q. What is the purpose of your testimony?
- 5 A. The purpose of our testimony is to present Liberty's proposed Energy Service
- reconciliation for the period of August 1, 2022, to July 31, 2023. Our testimony includes
- 7 the results of: (i) the reconciliation of Energy Service power supply expense and
- 8 applicable revenue ("Energy Service Reconciliation"), including Renewable Portfolio
- 9 Standard obligations and the applicable revenue; and (ii) the reconciliation of
- administrative costs and revenues associated with providing Energy Service ("Energy
- Service Cost Reclassification Adjustment Factor –ESCRAF- Reconciliation").
- 12 Q. Is Liberty proposing new Energy Service rates at this time?
- 13 A. No, Liberty is not proposing new Energy Service rates at this time. The Company will
- propose new rates when it submits its rate filing on June 23, 2023. This filing only
- addresses the reconciliation portion of the rate calculation.
- 16 Q. Please provide the list of schedules attached to your testimony.
- 17 A. The table below lists the schedules provided as attachments to our testimony.

Schedule	Description
TJC/JMK-3	Reconciliation and Calculation of Proposed Energy Service
	Adjustment Factor
TJC/JMK-4	Reconciliation and Calculation of Proposed Energy Service Cost
	Reclassification Adjustment Factor

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- Schedules TJC/JMK-1 and TJC/JMK-2 (not attached) will provide rate calculations based on the winning bids. These schedules will be filed with the full Energy Service filing on June 23, 2023.
- 4 Q. What are energy service rates?
- 5 A. The rates that the Company charges customers who do not elect to take service from a
 6 competitive supplier for the energy that it procures on their behalf. Energy service is
 7 often referred to as default service.
- 8 Q. How many separate energy service rates are there?
- 9 A. Two, the Large Customer Group ("LCG") rate and the Small Customer Group ("SCG")

 10 rate.
- 11 Q. Which customers comprise the Large Customer Group?
- 12 A. The LCG includes Liberty's customers who receive service under rate classes G-1

 13 (General Service Time-Of-Use), G-2 (General Long-Hour Service), EV-L (Commercial

 14 Plug In Electric Vehicle Charging Station), and EV-M (Commercial Plug In Electric

 15 Vehicle Charging Station). Additional detail regarding the class definitions is available

 16 in the Company's retail service tariff. 1
- 17 Q. Which customers comprise the Small Customer Group?
- A. The SCG includes Liberty's customers who receive service under rate classes D

 (Domestic Service), D-10 (Domestic Service with Optional Peak Load Pricing), M

¹ [https://new-hampshire.libertyutilities.com/uploads/2023-04-05%20NHPUC%20No.%2021.pdf]

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- 1 (Outdoor Lighting), T (Limited Total Electrical Living Rate), V (Limited Commercial 2 Space Heating), and G-3 (General Service), and the time-of-use rates D-11 (Battery 3 Storage Pilot) and D-12 (Residential EV Charging). Additional detail regarding the class 4 definitions is available in the Company's retail service tariff.²
- 5 Q. Are there other rate classes that are not included in this filing?
- 6 A. No.
- 7 Q. Does your testimony also provide analyses of bill impacts for typical customers?
- 8 A. Not at this time. The Company will provide bill impacts for residential customers using
- 9 650 kWh per month taking energy service in the upcoming June 23, 2023, filing.

10 III. <u>BACKGROUND</u>

- 11 Q. When did it become necessary for electric utilities in New Hampshire to purchase 12 energy on behalf of their customers in the manner they do now?
- 13 A. It began in 1996, when the New Hampshire legislature passed RSA 374-F, which started
 14 the process of deregulation, or restructuring, and required utilities in the state to divest
 15 their ownership of generation assets. Prior to 1996, the utilities generated most or all of
 16 the power their customers consumed and passed the costs of doing so on to their
 17 customers through regulated rates.

² *Id*.

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1 Q. Who provides energy to New Hampshire customers now?

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2 A. Deregulation created competition in the energy market throughout the state, meaning that
3 customers could either choose a third-party supplier to provide the commodity portion of
4 their service or receive the commodity portion of their service from their electric utility,
5 as was the practice before deregulation. For customers who do not choose a third-party
6 supplier, those customers are served by the electric distribution utility under energy
7 service.

Q. How have the procurement practices of the New Hampshire utilities changed since deregulation was implemented?

Several dockets and their resulting settlement agreements and orders have established and 10 A. then refined how utilities make energy service solicitations, how they evaluate bids, and 11 12 how best to conduct the entire procurement process. Those proceedings include the Settlement Agreement in Docket No. DE 05-126, dated November 18, 2005, which was 13 14 approved by the Commission in Order No. 24,577 (Jan. 13, 2006), amended by Order No. 15 24,922 (Dec. 19, 2008) in Docket No. DE 08-011, amended by Order No. 25,601 (Nov. 27, 2013) in Docket No. DE 13-018, and further amended by Order No. 25,806 (Sept. 2, 16 17 2015) in Docket No. DE 15-010. Liberty followed those approved processes in conducting the energy service solicitation that gives rise to the rates being proposed in 18 19 this docket.

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1	Q.	Has the Company calculated the Energy Service Reconciliation Factors in the same
2		manner as previous reconciliations?
3	A.	No. Because the Company served the LCG through a self-supply option and there was a
4		significant over-collection related to that specific group, Liberty is proposing a separate
5		reconciliation for the LCG and SCG. The Company had discussed this possibility at the
6		February 28, 2023, hearing and at that time did not have a definite plan to address the
7		reconciliation but agreed to work with the New Hampshire Department of Energy
8		("DOE") on a process to reconcile by group. After reviewing the results of the over-
9		collection for the LCG, the Company is proposing separate reconciliations by group and
10		has presented separate schedules to split the over- or under-collection by group.
11	IV.	RECONCILIATION OF ENERGY SERVICE ADJUSTMENT FACTOR (ESAF)
12	Q.	Please summarize the Company's ESAF and ESCRAF reconciliations.
13	A.	The Company calculates the differences between revenues and costs for the following
14		items for this reconciliation filing:
15		o Energy Service Adjustment Factor ("ESAF") reconciliation – any over- or
16		under-collection of the prior period's ESAF, including:
17		 Base Energy Service (Over)/Under Collection
18		 Renewable Portfolio Standard (Over)/Under Collection
19		 Energy Service Adjustment Factor (Over)/Under Collection
20		 Interest applicable to the monthly (Over)/Under Collection
21		balances

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- Energy Service Cost Reclassification Adjustment Factor ("ESCRAF") 1 reconciliation – any (over)/under collection of the prior period's ESCRAF, 2 including applicable interest 3 V. ENERGY SERVICE ADJUSTMENT FACTOR RECONCILIATION 4 Please explain Schedule TJC/JMK-3. 5 Q. 6 A. Schedule TJC/JMK-3 includes the summary and details supporting the calculation of the Energy Service Adjustment Factor ("ESAF") charged to customers. The ESAF includes 7 the (over)/under collection balances of Energy Service, the Energy Service Adjustment 8 9 Factor, RPS, and applicable interest. 10 Q. Is the Company presenting a reconciliation of Energy Service power supply costs and revenues in this filing? 11 A. Yes. The Energy Service Adjustment Factor Reconciliation for the period August 1, 12 2022, through July 31, 2023, ("Reconciliation Period") is presented in Schedule 13 TJC/JMK-3, pages 2, 2-1, and 2-2. 14
- 15 Q. Please explain the Energy Service Adjustment Factor Reconciliation.
- 16 A. On a monthly basis, the company calculates its (over)/under collection of costs and
 17 revenues associated with providing Energy Service. An under-collection, for instance,
 18 occurs when costs exceed revenues. The (over)/under collection balance from the prior
 19 month is then netted with the current month's activity and interest at the prime rate is
 20 applied. Schedule TJC/JMK-3, page 2, presents the reconciliation of revenues and
 21 expenses by month for the Reconciliation Period. Schedule TJC/JMK-3, pages 2-1 and

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2		respectively. Additional details behind each month's Energy Service revenue are
3		included on page 3-1 (Large) and 3-2 (Small) of Schedule TJC/JMK-3. Page 4 of
4		Schedule TJC/JMK-3 provides support for the allocation of total RPS expense by month,
5		which was based on the total usage of each customer group during the Reconciliation
6		Period.
7	Q.	What is the result of the Company's Energy Service Adjustment Factor
8		Reconciliation for the period ending July 31, 2023?
9	A.	As shown on Schedule TJC/JMK-3, page 1, the Company has estimated an overcollection
10		of Energy Service power supply costs of \$5,974,913 for the Large Customer Group and
11		an under collection of \$1,444,452 for the Small Customer Group. When these
12		(over)/under collections are divided by the estimated Energy Service forecasted kilowatt-
13		hour sales, it results in an estimated ESAF of (\$0.05662) for the Large Customer Group

2-2, present the Energy Service Reconciliation by large and small customer groups,

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17 Q. Is the Company presenting a separate reconciliation of the cost of complying with 18 the Renewable Portfolio Standard obligation in this filing?

self-supply option which caused revenues to exceed forecasted expenses.

and \$0.00402 for the Small Customer Group to be included in Energy Service rates

effective August 1, 2023. The primary driver of the LCG over collection balance is the

19 A. No. Consistent with the previously approved methodology, the Company has included
20 RPS revenues and expenses in the Energy Service Adjustment Factor reconciliation.

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1	VI.	ENERGY SERVICE COST RECLASSIFICATION ADJUSTMENT FACTOR
2		(ESCRAF) RECONCILIATION

- 3 Q. Please describe the reconciliation of the administrative costs of providing Energy
- 4 Service.

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- The Company must reconcile its administrative costs of providing Energy Service with its Energy Service revenue associated with the collection of administrative costs, and the excess or deficiency resulting from that reconciliation, including interest at the prime
- 9 Q. Is the Company presenting a reconciliation of administrative costs of providing
 10 Energy Service with its Energy Service revenue associated with the collection of
 11 administrative costs in this filing?

rate, must be reflected in the subsequent year's ESCRAF.

- 12 A. Yes. The ESCRAF Reconciliation for the period August 1, 2022, through July 31, 2023, is presented in Schedule TJC/JMK-4.
- 14 Q. Please explain the ESCRAF reconciliation.
- On a monthly basis, the company calculates its (over)/under collection of administrative

 costs and ESCRAF revenues. An under-collection, for instance, occurs when costs

 exceed revenues. The (over)/under collection balance from the prior month is then netted

 with the current month's activity and interest at the prime rate is applied. Schedule

 TJC/JMK-4, page 2, presents the reconciliation of revenues and expenses by month for

 the Reconciliation Period. Pages 2-1 and 2-2 provide reconciliations for the Large and

 Small customer groups, respectively. The detail and allocations supporting each month's

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- ESCRAF administrative expense are shown on pages 4, 4-1, and 4-2 of Schedule

 TJC/JMK-4.
- 3 Q. Has the Company calculated the proposed ESCRAF for the period beginning
- 4 August 1, 2023?
- 5 A. Yes. Schedule TJC/JMK-4, page 1, calculates the estimated ESCRAF of \$(0.00033) per
- 6 kWh for the Large Customer Group and \$0.00048 per kWh for the Small Customer
- Group for the period of August 1, 2023, through July 31, 2024. The proposed ESCRAF
- would be combined with the Energy Service rates for billing.
- 9 Q. Has the Company calculated the ESCRAF in the same manner as in the prior year's filing?
- No. The Company has calculated the ESCRAF in the same manner as in the prior year's 11 A. filing and in accordance with the methodologies and allocations approved in the 12 Settlement Agreement in Docket No. DR 95-169, Granite State Electric Company Rate 13 14 Increase. However, because the Company served the LCG through a self-supply option and there was a significant over-collection related to that specific group, Liberty is 15 proposing a separate reconciliation for the LCG and SCG. The Company discussed this 16 possibility at the February 28, 2023, hearing³ and at that time did not have a definite plan 17 to address the reconciliation but agreed to work with the DOE on a process to reconcile 18

³ February 28, 2023, Hearing Transcript at 38. https://www.puc.nh.gov/Regulatory/Docketbk/2022/22-024/TRANSCRIPTS-OFFICIAL%20EXHIBITS-CLERKS%20REPORT/22-024_2023-03-17_TRANSCRIPT_02-28-23.PDF

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by group. The Company is proposing separate reconciliations by group and has presented separate schedules to split out the over- or under-collection by group.

3 VII. PROPOSED ENERGY SERVICE RATES

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- 4 Q. Please describe the Company's most recent solicitation.
- At this time, the final results of the RFP are not available, therefore, the full proposed energy service rate is not known at this time. The Company will propose both the base energy service rate and RPS factor in its upcoming filing on June 23, 2023.

8 VIII. HIGH ENERGY PRICES - COMMUNICATION AND OUTREACH

- 9 Q. Per Order No. 26,643 (June 20, 2022) and Order No. 26,752 (December 22, 2022),
 10 provide an update on communication efforts over the past year related to the high
 11 energy service prices.
- 12 A. Beginning in the summer of 2022, when market energy prices began to increase and
 13 realizing the impact the increased cost of energy would have on our customers, Liberty
 14 launched a comprehensive communications campaign to educate customers on the drivers
 15 for the increased cost as well as ways they could work to offset the costs through energy
 16 efficiency and financial assistance programs. Efforts included:
 - Education for customer-facing employees via internal memos and guidance on how to answer customer questions
 - Webpage designed to explain the increased costs and point customers to helpful resources and savings opportunities

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2	information and have a customer service representative call them with assistance
3	opportunities
4	• Pocket card for field crews that could be left with customers with a high-level
5	explanation and QR code directing customers to the website
6	• Monthly customer email outreach (May – December), reviewed by both the DOE
7	and the Office of the Consumer Advocate
8	• Social media advertisements promoting energy efficiency programs and financial
9	assistance programs to support customers in need
10	A bill message in July and August driving customers to the website
11	• Single subject email to customers in June; this email had a 41% open rate and 618
12	link clicks
13	A mailed letter to all electric customers in late July
14	• Sponsorship of a local radio energy savings series
15	• Targeted outreach to key accounts (commercial and industry) to provide guidance
16	and programs to support them
17	• Personal conversations with members of the Business Industry Association, local
18	Chambers of Commerce, and legislators
19	The total cost for the efforts outlined above is shown in the table below.

Pocket card for field crews that allow customers to send in their contact

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Tactic	Cost
Letter to customers	\$31,688
Social Ads	\$597
Radio Campaign	\$2,000
Email	\$1,344
Palm Cards	\$50
Total	\$35,679

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- 2 IX. <u>CONCLUSION</u>
- 3 Q. Does this conclude your testimony?
- 4 A. Yes, it does.

Docket No. DE 23-044 Exhibit 1 Docket No. DE 23-044 Attachment TJC/JMK-3 Page 1

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Calculation of Energy Service Adjustment Factor Effective August 1, 2023

LINE							
NO.	DESCRIPTION		COMBINED		LARGE		SMALL
	(a)		(b)		(c)		(d)
1	Beginning Balance		\$ 1,715,630	\$	398,026	\$	1,317,604
2	Base Energy Service (Over)/Under Collection	[1]	(2,325,299)		(5,316,572)		2,991,273
3	RPS (Over)/Under Collection	[2]	(3,473,978)		(806,046)		(2,667,932)
4	Energy Service Adjustment Factor (Over)/Under Collection	[3]	(447,410)		(103,809)		(343,601)
5	Interest	[4]	686		(146,512)		147,198
6	Total (Over)/Under Collection	[5]	\$ (4,530,371)	\$	(5,974,913)	\$	1,444,542
7	Estimated Energy Service kWh Deliveries	[6]	464,381,406	10	05,519,591	3	58,861,815
8	Energy Service Adjustment Factor per kWh	[7]	\$ (0.00975)	\$	(0.05662)	\$	0.00402

^[1] Schedule TCJ/JMK-3 P2, Line 13 Columns (e and g)

^[2] Schedule TCJ/JMK-3 P2, Line 13 Columns (d and f)

^[3] Schedule TJC/JMK-3, P2 Line 13 Column C

^[4] Schedule TCJ/JMK-3 P2, Line 13 Columns (k)

^[5] Sum of Lines 1 - 5

^[6] Per Company forecast August 2022 - July 2023

^[7] Line (5) ÷ Line (6), truncated after 5 decimal places

Attachment TJC/JMK-3 Page 2

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Reconciliation of Energy Service Adjustment Factor (OVER)/UNDER Balance Incurred August 2022 - July 2023

LINE <u>NO.</u>	MONTH (a)	VO)	EGINNING VER)/UNDER B <u>ALANCE</u> (b)	ENERGY SERVICE ADJUSTMENT <u>REVENUE</u> (c)	RPS REVENUE (d)	 BASE ERGY SERVICE <u>REVENUE</u> (e)	<u>E</u>	RPS XPENSE (f)	EN	BASE NERGY SERVICE <u>EXPENSE</u> (g)		ENDING VER)/UNDER BALANCE (h)	SI	BALANCE UBJECT TO INTEREST (i)	EFFECTIVE INTEREST <u>RATE</u> (j)	<u>IN</u>	TEREST (k)	MULATIVE TEREST (l)
1	Aug-22	\$	1,715,630	\$ 45,105	\$ 366,950	\$ 9,475,368	\$	25,520	\$	8,188,905	\$	42,631	\$	879,131	4.00%	\$	2,930	\$ 2,930
2	Sep-22		45,562	39,290	319,643	5,765,912				5,078,966		(1,000,318)		(477,378)	4.00%		(1,591)	1,339
3	Oct-22		(1,001,909)	39,449	320,931	7,011,923		17,994		4,300,202		(4,056,016)		(2,528,963)	5.50%		(11,591)	(10,252)
4	Nov-22		(4,067,607)	28,186	229,306	6,291,806		27,082		5,636,948		(4,952,876)		(4,510,241)	5.50%		(20,672)	(30,924)
5	Dec-22		(4,973,547)	30,944	251,740	6,857,042				10,892,050		(1,221,224)		(3,097,385)	5.50%		(14,196)	(45,120)
6	Jan-23		(1,235,420)	41,255	335,624	9,923,867		2,600		13,122,883		1,589,317		176,949	7.00%		1,032	(44,088)
7	Feb-23		1,590,349	41,544	337,980	10,270,096				14,463,259		5,403,988		3,497,168	7.00%		20,400	(23,688)
8	Mar-23		5,424,388	36,831	299,639	7,336,698		-		6,420,261		4,171,480		4,797,934	7.00%		27,988	4,300
9	Apr-23		4,199,468	34,360	279,533	5,899,407		92,696		4,414,174		2,493,039		3,346,253	7.75%		21,611	25,911
10	* May-23		2,514,650	32,747	266,408	6,368,312				4,139,296		(13,521)		1,250,565	7.75%		8,077	33,988
11	* Jun-23		(5,444)	36,065	293,401	7,018,973		-		4,458,056		(2,895,827)		(1,450,636)	7.75%		(9,369)	24,619
12	* Jul-23	\$	(2,905,196)	41,634	338,713	8,324,768		-		7,103,874	\$	(4,506,438)	\$	(3,705,817)	7.75%		(23,933)	\$ 686
13	TOTALS			\$ 447,410	#######	\$ 90,544,173	\$	165,891	\$	88,218,875	-				-	\$	686	

Total (Over)/Under Collection:

\$ (4,530,371)

- (b) Prior month Column (c) + Prior month Column (f)
 (c) Actual kWh sales multiplied by the approved Energy Service Adjustment Factor
 (d) Actual kWh sales multiplied by the approved RPS Factor
 (e) See TJC-JMK-3 P2-1,2

- (f) See TJC-JMK-3 P4-1
- (f) See 1/J-JMK-3 P4-1 (g) Actual expenses incurred (h) Column (b) Columns (cre) + Columns (f:g) (i) [Column (a) + Column (c)] +2 (j) Interest rate on Customer Deposits

- (k) Column (i) x Column (j) / 12 (l) Column (f) + Prior Month Column (g)
- *Projection

Docket No. DE 23-044 Attachment TJC/JMK-3 Page 2-1

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Reconciliation of Energy Service Adjustment Factor (OVER)/UNDER Balance Incurred August 2022 - July 2023 Large Customer Group

LINE <u>NO.</u>	MONTH (a)	(OV	EGINNING 'ER)/UNDER BALANCE (b)	Sl ADJ	NERGY ERVICE USTMENT EVENUE (c)	RI	RPS EVENUE (d)	EN	BASE ERGY SERVICE <u>REVENUE</u> (e)	Ī	RPS EXPENSE (f)	EN	BASE ERGY SERVICE <u>EXPENSE</u> (g)	VO)	ENDING /ER)/UNDER <u>BALANCE</u> (h)	SU	BALANCE JBJECT TO NTEREST (i)	EFFECT INTER RAT (j)	EST	TEREST (k)	MULATIVE <u>VTEREST</u> (l)
1	Aug-22	\$	398,026	\$	9,421	\$	76,645	\$	1,707,590	\$	5,921	\$	1,747,938	\$	358,229	\$	378,127	4.	.00%	\$ 1,260	\$ 1,260
2	Sep-22		359,489		8,895		72,361		1,283,637				1,373,605		368,201		363,845	4.	.00%	1,213	2,473
3	Oct-22		369,414		12,454		101,316		979,124		4,174		1,222,610		503,305		436,360	5.	.50%	2,000	4,473
4	Nov-22		505,305		6,149		50,025		1,148,379		6,283		1,455,702		762,737		634,021	5.	.50%	2,906	7,379
5	Dec-22		765,643		5,637		45,858		1,680,180		-		2,776,816		1,810,785		1,288,214	5.	.50%	5,904	13,283
6	Jan-23		1,816,690		8,651		70,379		3,000,375		603		3,394,534		2,132,422		1,974,556	7.	.00%	11,518	24,802
7	Feb-23		2,143,940		8,946		72,782		3,354,262		_		(2,027,948)		(3,319,998)		(588,029)	7.	.00%	(3,430)	21,372
8	Mar-23		(3,323,428)		8,796		71,562		1,771,952		-		629,792		(4,545,947)		(3,934,688)	7.	.00%	(22,952)	(1,581)
9	Apr-23		(4,568,899)		10,446		84,985		1,387,748		21,505		423,626		(5,606,947)		(5,087,923)	7.	.75%	(32,860)	(34,440)
10	* May-23		(5,639,807)		7,581		61,674		845,188		-		845,188		(5,709,061)		(5,674,434)	7.	.75%	(36,647)	(71,088)
11	* Jun-23		(5,745,709)		7,984		64,952		856,099		-		856,099		(5,818,644)		(5,782,177)	7.	.75%	(37,343)	(108,431)
12	* Jul-23	\$	(5,855,988)		8,850		71,995		1,129,519		-		1,129,519	\$	(5,936,832)	\$	(5,896,410)	7.	.75%	(38,081)	\$ (146,512)
13	TOTALS		•	\$	103,809	\$	844,533	\$	19,144,052	\$ _	38,487	\$	13,827,480							\$ (146,512)	

Total (Over)/Under Collection:

\$ (5,974,913)

- (b) Prior month Column (c) + Prior month Column (f)
- (c) Actual kWh sales multiplied by the approved Energy Service Adjustment Factor
 (d) Actual kWh sales multiplied by the approved RPS Factor

- (d) Actual kWn sales multiplied by the approved RPS Face
 (e) See TJC-JMK-3 P3-1
 (f) See TJC-JMK-3 P4-1
 (g) Actual expenses incurred
 (h) Column (b) Columns (c:e) + Columns (f:g)
 (i) [Column (a) + Column (e)] ÷ 2

- (i) [Column (a) **Column (b) **2
 (j) Interest rate on Customer Deposits
 (k) Column (i) x Column (j) / 12
 (l) Column (f) + Prior Month Column (g)
- *Projection

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Reconciliation of Energy Service Adjustment Factor (OVER)/UNDER Balance Incurred August 2022 - July 2023 Small Customer Group

LINE NO.	MONTH (a)	(OV	EEGINNING VER)/UNDER BALANCE (b)	AD	ENERGY SERVICE JUSTMENT <u>EEVENUE</u> (c)	<u>R</u>	RPS EVENUE (d)	EN	BASE ERGY SERVICE <u>REVENUE</u> (e)	<u>E</u> 2	RPS XPENSE (f)	BASE RGY SERVIC <u>EXPENSE</u> (g)	,	ENDING VER)/UNDER BALANCE (h)	SU	BALANCE JBJECT TO NTEREST (i)	INT	ECTIVE EREST ATE (j)	<u>IN'</u>	ΓEREST (k)	MULATIVE I <u>TEREST</u> (l)
1	Aug-22	\$	1,317,604	\$	35,684	\$	290,305	\$	7,767,778	\$	19,599	\$ 6,440,967	\$	(315,597)	\$	501,003		4.00%	\$	1,670	\$ 1,670
2	Sep-22		(313,927)		30,396		247,282		4,482,275			3,705,361		(1,368,519)		(841,223)		4.00%		(2,804)	(1,134)
3	Oct-22		(1,371,323)		26,995		219,615		6,032,799		13,819	3,077,592		(4,559,321)		(2,965,322)		5.50%		(13,591)	(14,725)
4	Nov-22		(4,572,912)		22,037		179,281		5,143,427		20,799	4,181,246		(5,715,613)		(5,144,263)		5.50%		(23,578)	(38,303)
5	Dec-22		(5,739,191)		25,307		205,883		5,176,863			8,115,234		(3,032,009)		(4,385,600)		5.50%		(20,101)	(58,404)
6	Jan-23		(3,052,109)		32,604		265,246		6,923,493		1,997	9,728,350		(543,105)		(1,797,607)		7.00%		(10,486)	(68,890)
7	Feb-23		(553,591)		32,598		265,197		6,915,835			16,491,207		8,723,986		4,085,197		7.00%		23,830	(45,059)
8	Mar-23		8,747,816		28,035		228,078		5,564,746		-	5,790,469		8,717,426		8,732,621		7.00%		50,940	5,881
9	Apr-23		8,768,367		23,914		194,547		4,511,659		71,191	3,990,548		8,099,986		8,434,176		7.75%		54,471	60,352
10	* May-23		8,154,457		25,166		204,735		5,523,124		-	3,294,109		5,695,541		6,924,999		7.75%		44,724	105,076
11	* Jun-23		5,740,265		28,081		228,450		6,162,873		-	3,601,957		2,922,817		4,331,541		7.75%		27,975	133,050
12	* Jul-23	\$	2,950,792		32,785		266,718		7,195,250		-	5,974,356	\$	1,430,395	\$	2,190,593		7.75%		14,148	\$ 147,198
13	TOTALS			\$	343,601	\$	2,795,336	\$	71,400,122	\$	127,404	\$ 74,391,395						-	\$	147,198	

Total (Over)/Under Collection:

1,444,542

- (b) Prior month Column (c) + Prior month Column (f)
 (c) Actual kWh sales multiplied by the approved Energy Service Adjustment Factor
 (d) Actual kWh sales multiplied by the approved RPS Factor
 (e) See TJC-JMK-3 P3-2

- (f) See TJC-JMK-3 P4-2
- (g) Actual expenses incurred (h) Column (b) Columns (c:e) + Columns (f:g)
- (i) [Column (a) + Column (c)] ÷ 2 (j) Interest rate on Customer Deposits
- (k) Column (i) x Column (j) / 12
- (l) Column (f) + Prior Month Column (g)

Docket No. DE 23-044 Attachment TJC/JMK-3 Page 3-1

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Revenue August 2022 - July 2023 Large Customer Group

LINE NO.	MONTH (a)	TOTAL RGY SERVICE REVENUE (b)	LARGE ES (kWh)	ENERGY S DJUSTMEN RATE (\$/kWh) (d)	T RE		RATE (\$/kWh) (f)	REVENUE (g)	 ENERGY COST RI ADJUSTMEN RATE (\$/kWh) (h)	ECLA NT FA	SS.	BASE RGY SERVICE REVENUE (j)
1	Aug-22	\$ 1,818,190	9,813,658	\$ 0.00096	\$	9,421	\$ 0.00781	\$ 76,645	\$ 0.00250	\$	24,534	\$ 1,707,590
2	Sep-22	1,388,056	9,265,194	\$ 0.00096		8,895	\$ 0.00781	72,361	\$ 0.00250		23,163	1,283,637
3	Oct-22	1,125,325	12,972,595	\$ 0.00096		12,454	\$ 0.00781	101,316	\$ 0.00250		32,431	979,124
4	Nov-22	1,220,566	6,405,270	\$ 0.00096		6,149	\$ 0.00781	50,025	\$ 0.00250		16,013	1,148,379
5	Dec-22	1,746,353	5,871,658	\$ 0.00096		5,637	\$ 0.00781	45,858	\$ 0.00250		14,679	1,680,180
6	Jan-23	3,101,933	9,011,348	\$ 0.00096		8,651	\$ 0.00781	70,379	\$ 0.00250		22,528	3,000,375
7	Feb-23	3,459,288	9,319,105	\$ 0.00096		8,946	\$ 0.00781	72,782	\$ 0.00250		23,298	3,354,262
8	Mar-23	1,875,217	9,162,827	\$ 0.00096		8,796	\$ 0.00781	71,562	\$ 0.00250		22,907	1,771,952
9	Apr-23	1,510,384	10,881,623	\$ 0.00096		10,446	\$ 0.00781	84,985	\$ 0.00250		27,204	1,387,748
10	* May-23	934,184	7,896,737	\$ 0.00096		7,581	\$ 0.00781	61,674	\$ 0.00250		19,742	845,188
11	* Jun-23	949,826	8,316,490	\$ 0.00096		7,984	\$ 0.00781	64,952	\$ 0.00250		20,791	856,099
12	* Jul-23	1,233,409	9,218,304	\$ 0.00096		8,850	\$ 0.00781	71,995	\$ 0.00250		23,046	1,129,519
13	TOTALS	\$ 20,362,731	108,134,809		\$	103,809		\$844,533		\$	270,337	\$ 19,144,052

⁽e) kWh sales (Column (c)) multiplied by approved Energy Service Adjustment Factor (Column (d))

⁽g) kWh sales (Column (c)) multiplied by approved RPS Adder (Column (f))
(i) Actual kWh sales (Column (c)) multiplied by the Energy Service Cost Reclassification Adjustment Factor approved (Column (h)

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Energy Service Revenue
August 2022 - July 2023
Small Customer Group

LINE NO.	MONTH (a)	ENERG	FOTAL GY SERVICE EVENUE (b)	SMALL ES (kWh) (c)	ENERGY S DJUSTMEN RATE (\$/kWh) (d)	T REVE	NUE ENUE	RATE \$/kWh) (f)	RPS RI	EVENUE (g)	_	ENERGY COST R ADJUSTME RATE (\$/kWh) (h)	ECLA NT FA	SS.	EN	BASE ERGY SERVICE REVENUE (j)
1	Aug-22	\$	8,116,442	37,170,941	\$ 0.00096	\$ 3:	5,684	\$ 0.00781	\$	290,305	\$	0.00061	\$	22,674	\$	7,767,778
2	Sep-22		4,779,267	31,662,228	\$ 0.00096	30	0,396	\$ 0.00781		247,282	\$	0.00061		19,314		4,482,275
3	Oct-22		6,296,562	28,119,664	\$ 0.00096	2	6,995	\$ 0.00781		219,615	\$	0.00061		17,153		6,032,799
4	Nov-22		5,358,748	22,955,345	\$ 0.00096	2	2,037	\$ 0.00781		179,281	\$	0.00061		14,003		5,143,427
5	Dec-22		5,424,133	26,361,396	\$ 0.00096	2:	5,307	\$ 0.00781		205,883	\$	0.00061		16,080		5,176,863
6	Jan-23		7,242,059	33,962,336	\$ 0.00096	3:	2,604	\$ 0.00781		265,246	\$	0.00061		20,717		6,923,493
7	Feb-23		7,234,343	33,956,120	\$ 0.00096	33	2,598	\$ 0.00781		265,197	\$	0.00061		20,713		6,915,835
8	Mar-23		5,838,673	29,203,266	\$ 0.00096	2	8,035	\$ 0.00781		228,078	\$	0.00061		17,814		5,564,746
9	Apr-23		4,745,315	24,909,996	\$ 0.00096	2	3,914	\$ 0.00781		194,547	\$	0.00061		15,195		4,511,659
10	* May-23		5,769,016	26,214,457	\$ 0.00096	2:	5,166	\$ 0.00781		204,735	\$	0.00061		15,991		5,523,124
11	* Jun-23		6,437,247	29,250,906	\$ 0.00096	2	8,081	\$ 0.00781		228,450	\$	0.00061		17,843		6,162,873
12	* Jul-23		7,515,585	34,150,884	\$ 0.00096	33	2,785	\$ 0.00781		266,718	\$	0.00061		20,832		7,195,250
13	TOTALS	\$	74,757,388	357,917,538		\$ 34.	3,601		\$	2,795,336			\$	218,330	\$	71,400,122

⁽e) kWh sales (Column (c)) multiplied by approved Energy Service Adjustment Factor (Column (d))

⁽g) kWh sales (Column (c)) multiplied by approved RPS Adder (Column (f))

⁽i) Actual kWh sales (Column (c)) multiplied by the Energy Service Cost Reclassification Adjustment Factor approved (Column (h)

^{*} Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Expense August 2022 - July 2023 Allocations

LINE		LARGE ES	SMALL ES	TOTAL ES	ALLOCATIO	N FACTOR		RPS EXPENSE	
NO.	MONTH	(kWh)	(kWh)	(kWh)	LARGE	SMALL	TOTAL	LARGE	SMALL
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	Aug-22	9,813,658	37,170,941	46,984,599			\$ 25,520	\$ 5,921	\$ 19,599
2	Sep-22	9,265,194	31,662,228	40,927,422			-	-	-
3	Oct-22	12,972,595	28,119,664	41,092,259			17,994	4,174	13,819
4	Nov-22	6,405,270	22,955,345	29,360,615			27,082	6,283	20,799
5	Dec-22	5,871,658	26,361,396	32,233,054			-	-	-
6	Jan-23	9,011,348	33,962,336	42,973,684			2,600	603	1,997
7	Feb-23	9,319,105	33,956,120	43,275,225			-	-	-
8	Mar-23	9,162,827	29,203,266	38,366,093			-	-	-
9	Apr-23	10,881,623	24,909,996	35,791,619			92,696	21,505	71,191
10	* May-23	7,896,737	26,214,457	34,111,194			0	-	-
11	* Jun-23	8,316,490	29,250,906	37,567,396			0	-	-
12	* Jul-23	9,218,304	34,150,884	43,369,188			0	-	-
13	TOTALS	108,134,809	357,917,538	466,052,347	23.20%	76.80%	\$ 165,891	\$ 38,487	\$ 127,404

⁽d) Column (b) + Column (c)

⁽e) Column (b) / Column (d) (e) Column (c) / Column (d)

⁽h) Column (g) x Row 13, Column (e)

⁽i) Column (g) x Row 13, Column (f)

^{*} Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Cost Reclassification Adjustment Factor (ESCRAF) Effective August 1, 2023

LINE	DECODIDATION		COMPINED				014411
NO.	DESCRIPTION		COMBINED		LARGE		SMALL
	(a)		(b)		(c)		(d)
1	Beginning (Over)/Under Balance	\$	145,752	\$	33,115	\$	112,637
2	ESCRAF (Over)/Under Collection	[1]	(18,492)		(68,302)		49,810
3	Interest	[2]	9,788		(45)		9,834
4	Total (Over)/Under Collection	[3] \$	137,048	\$	(35,232)	\$	172,280
5	Estimated Energy Service kWh Deliveries	[4]	464,381,406	10	5,519,591	35	8,861,815
6	Energy Service Adjustment Factor per kWh	[5] \$	0.00029	\$	(0.00033)	\$	0.00048

^[1] Schedule TJC/JMK-3 P2, 2-1, and 2-2, Line 13 Columns (e and g)

^[2] Schedule TJC/JMK-3 P2, 2-1, and 2-2 Line 13

^[3] Sum of Lines 1 - 3

^[4] Per Company forecast August 2022 - July 2023 (See TJC/JMK-4 P9)

^[5] Line (3) ÷ Line (4), truncated after 5 decimal places

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Cost Reclassification Adjustment Factor (ESCRAF) Reconciliation August 2022 - July 2023

LINE <u>NO.</u>	MONTH (a)	(OV	GINNING ER)/UNDER <u>ALANCE</u> (b)	<u>Rl</u>	EVENUE (b)	E	XPENSE (c)		MONTHLY VER)/UNDER (d)	(OV	ENDING /ER)/UNDER <u>BALANCE</u> (e)	SU	ALANCE BJECT TO ITEREST (f)	EFFECTIVE INTEREST <u>RATE</u> (g)	<u>IN</u>	UTEREST (h)	MULATIVE NTEREST (i)
1	Aug-22	\$	145,752	\$	47,208	\$	44,637	\$	(2,572)	\$	143,180	\$	144,466	4.00%	\$	482	\$ 482
2	Sep-22		143,661		42,477		33,313		(9,164)		134,497		139,079	4.00%		464	945
3	Oct-22		134,961		49,584		28,843		(20,741)		114,220		124,590	5.50%		571	1,516
4	Nov-22		114,791		30,016		31,061		1,045		115,835		115,313	5.50%		529	2,045
5	Dec-22		116,364		30,760		81,677		50,917		167,281		141,822	5.50%		650	2,695
6	Jan-23		167,931		43,245		49,359		6,113		174,044		170,987	7.00%		997	3,692
7	Feb-23		175,041		44,011		47,897		3,886		178,928		176,985	7.00%		1,032	4,725
8	Mar-23		179,960		40,721		34,003		(6,718)		173,242		176,601	7.00%		1,030	5,755
9	Apr-23		174,272		42,399		29,847		(12,553)		161,720		167,996	7.75%		1,085	6,840
10 *	May-23		162,805		35,733		29,847		(5,886)		156,918		159,861	7.75%		1,032	7,872
11 *	Jun-23		157,951		38,634		29,847		(8,788)		149,163		153,557	7.75%		992	8,864
12 *	Jul-23	\$	150,155		43,878		29,847	\$	(14,031)	\$	136,124	\$	143,139	7.75%		924	\$ 9,788
13	TOTALS			\$	488,667	\$	470,175	-							\$	9,788	

14 Total (Over)/Under Collection:

\$ 137,048

- (b1) Estimated July 2022 ending balance in DE 22-024, Attachment HMT/AMH-6, page2, line 12, column €
- (b2 b12) Prior Month Column (e) + Prior Month Column (h)
- (b) See TJC-JMK-4 P2-1 and 2-2
- (c) See TJC-JMK-4 P4
- (d) Column (c) Column (b)
- (e) Column (b) + Column (d)
- (f) [Column (b) + Column (e)] $\div 2$
- (g) Interest Rate on Customer Deposits
- (h) Column (f) x Column (g) / 12
- (i) Column (h) + Prior Month Column (i)
- *Projection

Docket No. DE 23-044 Exhibit 1 Docket No. DE 23-044 Attachment TJC/JMK-4

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Cost Reclassification Adjustment Factor (ESCRAF) Reconciliation August 2022 - July 2023 Large Customer Group

LINE <u>NO.</u>	MONTH (a)	(OVE	SINNING R)/UNDER <u>LANCE</u> (b)	RI	EVENUE (b)	<u>E</u> :	XPENSE (c)		ONTHLY ER)/UNDER (d)	(OV	ENDING /ER)/UNDER BALANCE (e)	SUI	ALANCE BJECT TO I <u>TEREST</u> (f)	EFFECTIVE INTEREST <u>RATE</u> (g)	<u>IN</u>	TEREST (h)	MULATIVE NTEREST (i)
1	Aug-22	\$	33,115	\$	24,534	\$	18,547	\$	(5,987)	\$	27,127	\$	30,121	4.00%	\$	100	\$ 100
2	Sep-22		27,228	\$	23,163		13,884		(9,279)		17,948		22,588	4.00%		75	176
3	Oct-22		18,024	\$	32,431		11,985		(20,447)		(2,423)		7,800	5.50%		36	211
4	Nov-22		(2,387)	\$	16,013		12,906		(3,107)		(5,495)		(3,941)	5.50%		(18)	193
5	Dec-22		(5,513)	\$	14,679		34,729		20,049		14,537		4,512	5.50%		21	214
6	Jan-23		14,557	\$	22,528		21,261		(1,267)		13,290		13,924	7.00%		81	295
7	Feb-23		13,371	\$	23,298		20,666		(2,632)		10,739		12,055	7.00%		70	366
8	Mar-23		10,809	\$	22,907		14,993		(7,914)		2,896		6,853	7.00%		40	406
9	Apr-23		2,936	\$	27,204		13,266		(13,938)		(11,002)		(4,033)	7.75%		(26)	380
10 *	May-23		(11,028)	\$	19,742		13,266		(6,475)		(17,503)		(14,266)	7.75%		(92)	287
11 *	Jun-23		(17,596)	\$	20,791		13,266		(7,525)		(25,120)		(21,358)	7.75%		(138)	149
12 *	Jul-23	\$	(25,258)	\$	23,046		13,266		(9,779)		(35,038)		(30,148)	7.75%		(195)	\$ (45)
13	TOTALS		- -	\$	270,337	\$	202,035	- =							\$	(45)	

14 Total (Over)/Under Collection:

\$ (35,232)

- (b2 b12) Prior Month Column (e) + Prior Month Column (h)
- (b) See TJC-JMK-4 P3-1
- (c) See TJC-JMK-4 P4-1
- (d) Column (c) Column (b)
- (e) Column (b) + Column (d)
- (f) [Column (b) + Column (e)] $\div 2$
- (g) Interest Rate on Customer Deposits
- (h) Column (f) x Column (g) / 12
- (i) Column (h) + Prior Month Column (i)
- *Projection

⁽b1) LCG portion of estimated July 2022 ending balance in DE 22-024, Attachment HMT/AMH-6, page2, line 12, column (e)

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Cost Reclassification Adjustment Factor (ESCRAF) Reconciliation August 2022 - July 2023 Small Customer Group

LINE <u>NO.</u>	MONTH (a)	(OV	EGINNING ER)/UNDER <u>ALANCE</u> (b)	EVENUE (b)	<u>E</u>	XPENSE (c)		MONTHLY <u>'ER)/UNDER</u> (d)	,	ENDING /ER)/UNDER BALANCE (e)	SU	ALANCE BJECT TO VTEREST (f)	EFFECTIVE INTEREST RATE (g)	<u>IN</u>	TEREST (h)	MULATIVE NTEREST (i)
1	Aug-22	\$	112,637	\$ 22,674	\$	26,090	\$	3,415	\$	116,052	\$	114,345	4.00%	\$	381	\$ 381
2	Sep-22		116,434	\$ 19,314		19,429		115		116,549		116,491	4.00%		388	769
3	Oct-22		116,937	\$ 17,153		16,859		(294)		116,643		116,790	5.50%		535	1,305
4	Nov-22		117,178	\$ 14,003		18,155		4,152		121,330		119,254	5.50%		547	1,851
5	Dec-22		121,877	\$ 16,080		46,948		30,868		152,744		137,310	5.50%		629	2,481
6	Jan-23		153,373	\$ 20,717		28,098		7,381		160,754		157,064	7.00%		916	3,397
7	Feb-23		161,670	\$ 20,713		27,232		6,519		168,189		164,930	7.00%		962	4,359
8	Mar-23		169,151	\$ 17,814		19,009		1,195		170,346		169,749	7.00%		990	5,349
9	Apr-23		171,337	\$ 15,195		16,580		1,385		172,722		172,029	7.75%		1,111	6,460
10 :	* May-23		173,833	\$ 15,991		16,580		589		174,422		174,127	7.75%		1,125	7,585
11 :	* Jun-23		175,546	\$ 17,843		16,580		(1,263)		174,284		174,915	7.75%		1,130	8,714
12 :	* Jul-23	\$	175,413	\$ 20,832		16,580	\$	(4,252)	\$	171,161	\$	173,287	7.75%		1,119	\$ 9,834
13	TOTALS			\$ 218,330	\$	268,140	•						-	\$	9,834	

14 Total (Over)/Under Collection:

\$ 172,280

- (b1) SCG portion of estimated July 2022 ending balance in DE 22-024, Attachment HMT/AMH-6, page2, line 12, column (e)
- (b2 b12) Prior Month Column (e) + Prior Month Column (h)
- (b) See TJC-JMK-4 P3-1
- (c) See TJC-JMK-4 P4-1
- (d) Column (c) Column (b)
- (e) Column (b) + Column (d)
- (f) [Column (b) + Column (e)] $\div 2$
- (g) Interest Rate on Customer Deposits
- (h) Column (f) x Column (g) / 12
- (i) Column (h) + Prior Month Column (i)
- *Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Cost Reclassification Adjustment Factor Expenses August 2022 - July 2023

LINE <u>NO.</u>	MONTH (a)	PAYROLL AND OTHER ADMIN EXPENSES (b)	BAD DEBT <u>EXPENSE</u> (c)	CASH WORKING CAPITAL EXPENSE (d)	NHPUC ASSESSMENT (e)	TOTAL EXPENSE (f)
1	Aug-22	\$ -	\$ 29,222	\$ 15,415	\$ -	\$ 44,637
2	Sep-22	495	17,404	15,415	-	33,313
3	Oct-22	-	13,429	15,415	-	28,843
4	Nov-22	-	15,646	15,415	-	31,061
5	Dec-22	31,652	24,610	15,415	10,000	81,677
6	Jan-23	8,902	25,042	15,415	-	49,359
7	Feb-23	9,040	23,443	15,415	-	47,897
8	Mar-23	10,237	8,351	15,415	-	34,003
9	Apr-23	10,237	4,195	15,415	-	29,847
10 *	May-23	10,237	4,195	15,415	-	29,847
12 *	Jun-23	10,237	4,195	15,415	-	29,847
13 *	Jul-23	10,237	4,195	15,415	-	29,847
14	TOTALS	\$ 101,273	\$ 173,927	\$ 184,975	\$ 10,000	\$ 470,175

⁽b) per general ledger

⁽c) per general ledger

⁽d) \$184,975 approved in DE 22-024

⁽e) Annual Assessment

⁽f) SUM Columns (b:e)

^{*}Projection based on previous period's costs

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Cost Reclassification Adjustment Factor Expenses August 2022 - July 2023 Large Customer Group

		PAYROLL AND		CASH WORKING		
LINE		OTHER ADMIN	BAD DEBT	CAPITAL	NHPUC	TOTAL
NO.	MONTH	EXPENSES	EXPENSE	EXPENSE	<u>ASSESSMENT</u>	EXPENSE
	(a)	(b)	(c)	(d)	(e)	(f)
	Allocation:	50.00%	41.55%	41.55%	22.72%	
1	Aug-22	\$ -	\$ 12,142	\$ 6,405	\$ -	\$ 18,547
2	Sep-22	247	7,231	6,405	-	13,884
3	Oct-22	-	5,580	6,405	-	11,985
4	Nov-22	-	6,501	6,405	-	12,906
5	Dec-22	15,826	10,226	6,405	2,272	34,729
6	Jan-23	4,451	10,405	6,405	-	21,261
7	Feb-23	4,520	9,741	6,405	-	20,666
8	Mar-23	5,118	3,470	6,405	-	14,993
9	Apr-23	5,118	1,743	6,405	-	13,266
10	* May-23	5,118	1,743	6,405	-	13,266
12	* Jun-23	5,118	1,743	6,405	-	13,266
13	* Jul-23	5,118	1,743	6,405	-	13,266
14	TOTALS	\$ 50,636	\$ 72,268	\$ 76,859	\$ 2,272	\$ 202,035

⁽b) Allocated equally between Large and Small Customer Classes

⁽c) Allocated based on methodology in DR 95-169

⁽d) Allocated based on methodology in DR 95-169

⁽e) Allocated based on forecasted usage (See TJC-JMK-4 P9)

⁽f) SUM Columns (b:e)

^{*}Projection based on previous period's coats

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Cost Reclassification Adjustment Factor Expenses August 2022 - July 2023 Small Customer Group

LINE <u>NO.</u>	MONTH (a)	PAYROLL AND OTHER ADMIN EXPENSES (b)	BAD DEBT EXPENSE (c)	CAI <u>EXF</u>	WORKING PITAL PENSE (d)	NHPUC ASSESSMENT (e)		TOTAL <u>XPENSE</u> (f)
	Allocation:	50%	58.45%	58	.45%		77.28%	
1	Aug-22	\$ -	\$ 17,080	\$	9,010	\$	_	\$ 26,090
2	Sep-22	247	10,172		9,010		_	19,429
3	Oct-22	-	7,849		9,010		_	16,859
4	Nov-22	-	9,145		9,010		_	18,155
5	Dec-22	15,826	14,384		9,010		7,728	46,948
6	Jan-23	4,451	14,637		9,010		_	28,098
7	Feb-23	4,520	13,702		9,010		_	27,232
8	Mar-23	5,118	4,881		9,010		_	19,009
9	Apr-23	5,118	2,452		9,010		_	16,580
10 *	May-23	5,118	2,452		9,010		_	16,580
12 *	* Jun-23	5,118	2,452		9,010		_	16,580
13 *	Jul-23	5,118	2,452		9,010		-	16,580
14	TOTALS	\$ 50,636	\$ 101,659	\$	108,116	\$	7,728	\$ 268,140

⁽b) Allocated equally between Large and Small Customer Classes

⁽c) Allocated based on methodology in DR 95-169

⁽d) Allocated based on methodology in DR 95-169

⁽e) Allocated based on forecasted usage (See TJC-JMK-4 P9)

⁽f) SUM Columns (b:e)

^{*}Projection based on previous period's coats

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Cost Reclassification Adjustment Factor Expenses Working Capital Summary

LINE <u>NO.</u>		DAYS OF COST (a)	_	EUSTOMER PAYMENT LAG % (c)	CWC % (d)	EXPENSE (e)	VORKING CAPITAL QUIREMENT (f)
[1]	2022 Purchase Power Costs	(34.045)	-9.33%	13.77%	4.44%	\$ 62,295,973	\$ 2,765,941
[2]	Renewable Portfolio Standard	(220.365)	-60.37%	13.77%	-46.60%	\$ 3,639,869	\$ (1,696,179)
[3]	Working Capital Requirement						\$ 1,069,762
[4]	Capital Structure Post-tax						7.60%
[5]	Working Capital Impact						\$ 81,302
[6]	Capital Structure Pre-tax						9.36%
[7]	Working Capital Impact						\$ 100,130

Columns:

[1](a) Schedule TJC/JMK-4 Page 6

- (b) Column (a) ÷ 365
- (c) Schedule TJC/JMK-4 Page 8
- (d) Column (b) + Column (c)
- (e) Schedule TJC/JMK-4 Page 6
- [2](a) Schedule TJC/JMK-4 Page 7
 - (b) Column (a) ÷ 365
 - (c) Schedule TJC/JMK-4 Page 8
 - (d) Column (b) + Column (c)
 - (e) Schedule TJC/JMK-4 Page 7
 - (f) Column (d) x Column (e)

Lines:

- [3] Line 1(f) + Line 2(f)
- [4] Settlement Agreement Docket No. DE 19-064
- [5] Line (3) x Line (4)
- [6] Settlement Agreement Docket No. DE 19-064
- [7] Line (3) x Line (6)

Docket No. DE 23-044 Attachment TJC/JMK-4 Page 6

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Energy Service Cost Reclassification Adjustment Factor Expenses

Invoice Month (a)	Expense Description (b)	Invoice Amount (c)	Mid-Point Service <u>Period</u> (d)	Invoice Date (e)	<u>Due Date</u> (f)	Payment <u>Date</u> (g)	Elapsed <u>Days</u> (h)	% of Total (i)	Weighted <u>Days</u> (j)
January 2022	Current Charge for January 2022	\$ 1.068.178.10	1/16/2022	2/10/2022	2/20/2022	2/22/2022	37	1.71%	0.63
January 2022	Current Charge for January 2022	\$ 4,154,998.79	1/16/2022	2/10/2022	2/22/2022	2/22/2022	37	6.67%	2.47
January 2022	Supplier Reallocation for September 2021	\$ (12,387.88)	1/16/2022	2/10/2022	2/20/2022	2/22/2022	37	-0.02%	(0.01)
January 2022	Supplier Reallocation for September 2021	\$ 73,633.79	1/16/2022	2/10/2022	2/22/2022	2/22/2022	37	0.12%	0.04
February 2022	Current Charge for February 2022	\$ 5,704,436.64	2/14/2022	3/8/2022	3/21/2022	3/21/2022	35	9.16%	3.20
February 2022	Current Charge for February 2022	\$ 1,618,013.06	2/14/2022	3/10/2022	3/21/2022	3/21/2022	35	2.60%	0.91
February 2022	Supplier Reallocation for October 2021	\$ (11,852.11)	2/14/2022	3/10/2022	3/21/2022	3/21/2022	35	-0.02%	(0.01)
February 2022	Supplier Reallocation for October 2021	\$ 82,851.35	2/14/2022	3/11/2022	3/22/2022	3/21/2022	35	0.13%	0.05
March 2022	Current Charge for March 2022	\$ 3,426,659.44	3/16/2022	4/6/2022	4/20/2022	4/20/2022	35	5.50%	1.93
March 2022	Current Charge for March 2022	\$ 1,107,757.12	3/16/2022	4/11/2022	4/20/2022	4/21/2022	36	1.78%	0.64
March 2022	Supplier Reallocation for November 2021	\$ 23,700.15	3/16/2022	4/11/2022	4/20/2022	4/20/2022	35	0.04%	0.01
March 2022	Supplier Reallocation for November 2021	\$ 15,326.76	3/16/2022	4/11/2022	4/21/2022	4/21/2022	36	0.02%	0.01
April 2022	Current Charge for April 2022	\$ 1,900,377.57	4/15/2022	5/9/2022	5/20/2022	5/23/2022	38	0.09%	0.03
April 2022	Current Charge for April 2022	\$ 624,105.30	4/15/2022	5/11/2022	5/23/2022	5/23/2022	38	1.00%	0.38
April 2022	Supplier Reallocation for December 2021	\$ 53,791.68	4/15/2022	5/12/2022	5/20/2022	5/19/2022	34	0.09%	0.03
April 2022	Supplier Reallocation for December 2021	\$ 5,102.16	4/15/2022	5/11/2022	5/23/2022	5/23/2022	38	0.01%	0.00
May 2022	Current Charge for May 2022	\$ 1,838,353.09	5/16/2022	6/7/2022	6/21/2022	6/23/2022	38	2.95%	1.12
May 2022	Current Charge for May 2022	\$ 551,941.44	5/16/2022	6/10/2022	6/20/2022	6/22/2022	37	0.89%	0.33
May 2022	Supplier Reallocation for January 2022	\$ 22,302.07	5/16/2022	6/10/2022	6/20/2022	6/22/2022	37	0.04%	0.01
May 2022	Supplier Reallocation for January 2022	\$ 71,736.86	5/16/2022	6/10/2022	6/21/2022	6/23/2022	38	0.12%	0.04
June 2022	Current Charge for June 2022	\$ 621,002.52	6/15/2022	7/13/2022	7/25/2022	7/21/2022	36	1.00%	0.36
June 2022	Current Charge for June 2022	\$ 1,907,854.16	6/15/2022	7/13/2022	7/20/2022	7/21/2022	36	3.06%	1.10
June 2022	Supplier Reallocation for February 2022	\$ (2,317.49)	6/15/2022	7/13/2022	7/25/2022	7/21/2022	36	0.00%	(0.00)
June 2022	Supplier Reallocation for February 2022	\$ (10,190.75)	6/15/2022	7/13/2022	7/20/2022	7/21/2022	36	-0.02%	(0.01)
July 2022	Current Charge for July 2022	\$ 779,030.23	7/16/2022	8/12/2022	8/22/2022	8/19/2022	34	1.25%	0.43
July 2022	Current Charge for July 2022	\$ 2,992,361.08	7/16/2022	8/8/2022	8/22/2022	8/19/2022	34	4.80%	1.63
July 2022	Supplier Reallocation for March 2022	\$ (36,550.00)	7/16/2022	8/12/2022	8/22/2022	8/19/2022	34	-0.06%	(0.02)
July 2022	Supplier Reallocation for March 2022	\$ 96,994.58	7/16/2022	8/8/2022	8/22/2022	8/19/2022	34	0.16%	0.05
August 2022	Current Charge for August 2022	\$ 1,769,541.45	8/16/2022	9/7/2022	9/20/2022	9/21/2022	36	2.84%	1.02
August 2022	Current Charge for August 2022	\$ 6,287,191.60	8/16/2022	9/7/2022	9/20/2022	9/21/2022	36	10.09%	3.63
August 2022	Supplier Reallocation for April 2022	\$ (6,020.55)	8/16/2022	9/7/2022	9/20/2022	9/21/2022	36	-0.01%	(0.00)
August 2022	Supplier Reallocation for April 2022	\$ 237.40	8/16/2022	9/12/2022	9/22/2022	9/21/2022	36	0.00%	0.00
September 2022	Current Charge for September 2022	\$ 1,334,080.87	9/15/2022	10/7/2022	10/20/2022	10/26/2022	41	2.14%	0.88
September 2022	Current Charge for September 2022	\$ 3,577,044.71	9/15/2022	10/7/2022	10/20/2022	10/26/2022	41	5.74%	2.35
September 2022	Supplier Reallocation for May 2022	\$ (45,056.86)	9/15/2022	10/7/2022	10/20/2022	10/26/2022	41	-0.07%	(0.03)
September 2022	Supplier Reallocation for May 2022	\$ 5,799.40	9/15/2022	10/12/2022	10/24/2022	10/26/2022	41	0.01%	0.00
October 2022	Current Charge for October 2022	\$ 1,216,779.06	10/16/2022	11/4/2022	11/21/2022	11/29/2022	44	1.95%	0.86
October 2022	Current Charge for October 2022	\$ 3,122,305.75	10/16/2022	11/4/2022	11/21/2022	11/29/2022	44	5.01%	2.21
October 2022	Supplier Reallocation for June 2022	\$ 75,719.12	10/16/2022	11/4/2022	11/21/2022	11/29/2022	44	0.12%	0.05
October 2022	Supplier Reallocation for June 2022	\$ 13,682.64	10/16/2022	11/11/2022	11/21/2022	11/29/2022	44	0.02%	0.01
November 2022	Current Charge for November 2022	\$ 1,441,942.62	11/15/2022	12/6/2022	12/20/2022	12/19/2022	34	2.31%	0.79
November 2022	Current Charge for November 2022	\$ 4,105,249.31	11/15/2022	12/6/2022	12/20/2022	12/19/2022	34	6.59%	2.24
November 2022	Supplier Reallocation for July 2022	\$ 2,755.56	11/15/2022	12/6/2022	12/20/2022	12/19/2022	34	0.00%	0.00
November 2022	Supplier Reallocation for July 2022	\$ 28,545.46	11/15/2022	12/13/2022	12/23/2022	12/16/2022	31	0.05%	0.01
December 2022	Current Charge for December 2022	\$ 2,748,237.10	12/16/2022	1/10/2023	1/20/2023	1/12/2023	27	4.41%	1.19
December 2022	Current Charge for December 2022	\$ 8,112,314.62	12/16/2022	1/10/2023	1/20/2023	1/12/2023		13.02%	3.52
December 2022	Supplier Reallocation for August 2022	\$ 39,723.05	12/16/2022	1/10/2023	1/20/2023	1/12/2023	27	0.06%	(0.02)
December 2022	Supplier Reallocation for August 2022	\$ (201,309.33)	12/16/2022	1/10/2023	1/20/2023	1/12/2023	27	-0.32%	(0.09)

[1] Total \$ 62,295,972.69

Columns:

(a) Month in which obligation for payment occurred

(b) Per invoices (c) Per invoices

(d) Midpoint of applicable service period

(e) Per invoices

- (f) Per agreements
- (g) Date paid
- (h) Number of days between Column (d) and Column (g)
- (i) Column (c) ÷ Line (1)
- (j) Column (h) x Column (i)

Days

34.04

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty RPS Obligation Program Year 2022

			MID-POINT				
LINE	INVOICE	OBLIGATION	OF SERVICE		ELAPSED	% OF	WEIGHTED
<u>NO.</u>	MONTH	<u>AMOUNT</u>	<u>PERIOD</u>	DUE DATE	(DAYS)	<u>TOTAL</u>	<u>DAYS</u>
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Aug-22	\$ 366,950	8/16/2022	3/31/2023	227	10.08%	22.88
2	Sep-22	319,643	9/15/2022	3/31/2023	197	8.78%	17.30
3	Oct-22	320,931	10/16/2022	6/30/2023	257	8.82%	22.66
4	Nov-22	229,306	11/15/2022	6/30/2023	227	6.30%	14.30
5	Dec-22	251,740	12/16/2022	6/30/2023	196	6.92%	13.56
6	Jan-23	335,624	1/16/2023	9/30/2023	257	9.22%	23.70
7	Feb-23	337,980	2/14/2023	9/30/2023	228	9.29%	21.17
8	Mar-23	299,639	3/16/2023	9/30/2023	198	8.23%	16.30
9	Apr-23	279,533	4/15/2023	12/31/2023	260	7.68%	19.97
10	May-23	266,408	5/16/2023	12/31/2023	229	7.32%	16.76
11	Jun-23	293,401	6/15/2023	12/31/2023	199	8.06%	16.04
12	Jul-23	338,713	7/15/2023	12/31/2023	169	9.31%	15.73
13	[1] Total	\$ 3,639,869				[2] Days	220.36

Columns:

(a) Month in which obligation occurred

(b) Obligation based on kWh sales multiplied by the approved RPS rates for period

- (c) Midpoint of Service Period
- (d) Date of Obligation for Payment
- (e.) Number of days between Column (c) and Column (d)
- (f) Column (b) / Line 13, Column (b)
- (g) Column (e) x Column (f)

Lines:

- (1) Sum of Column (b)
- (2) Sum of Column (g)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Revenue Lead/Lag Applied to Energy Service

LINE NO.	SERVICE PERIOD		MONTHLY CUSTOMER ACCTS. RECEIVABLE (a)		MONTHLY SALES (b)	DAYS IN MONTH (c)	AVERAGE DAILY REVENUES (d)		
1	1/1/2022	1/31/2022	\$	13,874,291	\$ 13,001,968	31	\$	419,418	
2	2/1/2022	2/28/2022		14,240,765	13,349,266	28		476,760	
3	3/1/2021	3/31/2022		15,366,642	16,113,380	31		519,786	
4	4/1/2022	4/30/2022		13,878,360	14,326,913	30		477,564	
5	5/1/2022	5/31/2022		11,852,065	12,553,965	31		404,967	
6	6/1/2022	6/30/2022		13,129,736	12,431,389	30		414,380	
7	7/1/2022	7/31/2022		14,958,961	14,192,916	31		457,836	
8	8/1/2022	8/31/2022		18,829,611	16,571,543	31		534,566	
9	9/1/2022	9/30/2022		19,590,327	16,797,495	30		559,917	
10	10/1/2022	10/31/2022		13,763,794	13,298,088	31		428,971	
11	11/1/2022	11/30/2022		12,565,580	11,530,395	30		384,347	
12	12/1/2022	12/31/2022		16,050,611	12,606,165	31		406,650	
13		Average	\$	14,841,729	:		\$	457,097	
14	Service Lag						1	15.21	
15	Collection Lag						3	32.47	
16	Billing Lag							2. <u>59</u>	
17	Total Average Da	ys Lag					5	50.27	
18	Customer Payment Lag-annual percent							13.77%	

Columns:

- (a) Accounts Receivable per general ledger at end of month Docket No. DE 23-037, Att. HMT-3, Pg. 7
- (b) Per Company billing data Docket No. DE 23-037, Att. HMT-3, Pg. 7
- (c) Number of days in applicable service period
- (d) Column (b) ÷ Column (c.)

Lines:

- [14] Settlement Agreement Docket No. DE 19-064
- [15] Line 13, Column (a) / Column (d)
- [16] Settlement Agreement Docket No. DE 19-064
- [17] Sum of Lines 14-16
- [15] Line (17) ÷ 365

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Forecast for the Upcoming Period

LINE					
<u>NO.</u>	<u>MONTH</u>	<u>LCG</u>	LCG Energy Service	<u>SCG</u>	SCG Energy Service
	(a)	(b)	(c)	(d)	(e)
1	Aug-23	50,196,496	10,142,083	37,110,658	32,860,799
2	Sep-23	45,323,553	9,157,517	30,681,309	27,167,730
3	Oct-23	43,256,907	8,739,956	29,708,893	26,306,673
4	Nov-23	39,856,579	8,052,928	31,740,716	28,105,814
5	Dec-23	40,952,203	8,274,296	37,577,819	33,274,461
6	Jan-24	41,071,651	8,298,430	39,167,459	34,682,058
7	Feb-24	38,064,100	7,690,761	34,596,653	30,634,694
8	Mar-24	41,406,680	8,366,122	34,036,049	30,138,289
9	Apr-24	40,150,171	8,112,247	29,247,035	25,897,707
10	May-24	43,857,300	8,861,264	29,682,341	26,283,161
11	Jun-24	46,429,199	9,380,910	33,107,446	29,316,029
12	Jul-24	51,686,212	10,443,077	38,616,734	34,194,401
13	TOTALS	522,251,051	105,519,591	405,273,112	358,861,815
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	Energy Service	Allocation	22.72%		77.28%
14		20.20%		00 550/	
14		20.20%	1	88.55%	
15		LCG	LCG Forecast	SCG	SCG Forecast
16		20.20%		88.55%	
17	Aug-23	50,196,496	10,142,083	37,110,658	32,860,799
18	Sep-23	45,323,553	9,157,517	30,681,309	27,167,730
19	Oct-23	43,256,907	8,739,956	29,708,893	26,306,673
20	Nov-23	39,856,579	8,052,928	31,740,716	28,105,814
21	Dec-23	40,952,203	8,274,296	37,577,819	33,274,461
22	Jan-24	41,071,651	8,298,430	39,167,459	34,682,058
23	Feb-24	38,064,100	7,690,761	34,596,653	30,634,694
24	Mar-24	41,406,680	8,366,122	34,036,049	30,138,289
25	Apr-24	40,150,171	8,112,247	29,247,035	25,897,707
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27	Jun-24	46,429,199	9,380,910	33,107,446	29,316,029
	Jul-24	51,686,212	10,443,077	38,616,734	34,194,401
28	Jui-Z T	31,000,212	10,0770,077	JU, U 1 U, I U	
28 29	TOTALS	522,251,051	105,519,591	405,273,112	358,861,815