STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Docket No. DE 19-064

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Distribution Service Rate Case

DIRECT TESTIMONY

OF

ANTHONY STRABONE

AND

HEATHER M. TEBBETTS

April 6, 2022



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I. <u>INTRODUCTION AND BACKGROUND</u>

2 Q. Mr. Strabone, please introduce yourself.

- 3 A. My name is Anthony Strabone, my business address is 9 Lowell Road, Salem, New
- 4 Hampshire, and I am employed by Liberty Utilities Service Corp. ("LUSC"). I am the
- 5 Senior Manager of Electrical Engineering for LUSC and I am responsible for the electric
- capital work plan of Liberty Utilities (Granite State Electric) Corp. ("Liberty"), whereby I
- 7 manage engineering and construction resources for capital projects.
- 8 Q. Please describe your educational background and training.
- 9 A. I graduated from Merrimack College in 2004 with a Bachelor of Science degree in
- Electrical Engineering. I received a Master's of Business Administration from Southern
- New Hampshire University in 2006. I received a Project Management Professional
- 12 (PMP) Certification in 2017 from the Project Management Institute. In 2019, I received
- my license as a Professional Engineer in the State of New Hampshire.
- 14 Q. Please describe your professional background.
- 15 A. I joined Liberty in November 2014. Prior to my employment at Liberty, I was employed
- by Public Service Company of New Hampshire ("PSNH") as a Substation Supervisor in
- Substation Maintenance from 2010 to 2014. Prior to my position in Substation
- Maintenance, I was a Substation Engineer in Substation Engineering from 2008 to 2010
- and an Engineer in the System and Planning Strategy department from 2004 to 2008.
- 20 Q. Have you previously testified before the Commission?
- 21 A. Yes, on numerous occasions.

- 1 Q. Ms. Tebbetts, please state your full name, business address, and position.
- 2 A. My name is Heather M. Tebbetts, my business address is 15 Buttrick Road, Londonderry,
- New Hampshire, and I am employed by LUSC. I am the Manager of Rates and
- 4 Regulatory Affairs and am responsible for providing rate-related services for Liberty.
- 5 Q. Please describe your educational background and training.
- 6 A. I graduated from Franklin Pierce University in 2004 with a Bachelor of Science degree in
- Finance. I received a Master's of Business Administration from Southern New
- 8 Hampshire University in 2007.
- 9 Q. Please describe your professional background.
- 10 A. I joined Liberty in October 2014. Prior to my employment at Liberty, I was employed by
- PSNH as a Senior Analyst in NH Revenue Requirements from 2010 to 2014. Prior to my
- position in NH Revenue Requirements, I was a Staff Accountant in PSNH's Property Tax
- group from 2007 to 2010 and a Customer Service Representative III in PSNH's Customer
- Service Department from 2004 to 2007.
- 15 Q. Have you previously testified before the Commission?
- 16 A. Yes, I have testified on numerous occasions before the Commission.
- 17 II. PURPOSE OF TESTIMONY
- 18 Q. What is the purpose of your testimony?
- 19 A. The purpose of our testimony is to request a decrease in distribution rates, to be effective
- 20 July 1, 2022, as approved in Order No. 26,376 (June 30, 2020) in this docket. This is the

third approved step adjustment described in the Settlement Agreement in this docket and pertains to certain projects placed in service during the calendar year 2021.

3 III. <u>CAPITAL PROJECTS</u>

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- Q. Please explain each project for which the Company is seeking to commence cost
 recovery in this third step adjustment, as provided for in the Settlement Agreement.
- A. The Company seeks recovery for each of the capital projects discussed below that were placed in service during 2021. The breakdown of budget and spending by year is provided on page 1 of each of Attachments 2 through 19.
- 9 Q. Before discussing the details of each project, please explain why the proposed 10 requests for cost recovery for each project may differ from the figures in the 11 respective project close out forms.
- 12 A. Project close out forms are one of several types of documents attached to this testimony
 13 that support the prudence of the 2021 projects described below, the others being business
 14 cases, capital expenditure forms, and change orders, if necessary. Project close out forms
 15 are completed on an annual basis and address the spending for that particular project for
 16 that calendar year. They do not include any spending on that project from prior years.
 17 Therefore, when a project incurs costs during more than one calendar year, its costs will
 18 be reflected in more than one project close out form.
 - This annual process occurs because all ongoing projects receive a new project number each year, using the Company's established naming convention. For example, a project

opened in 2019 and named "88301-19xx XYZ Substation" will receive a new project number in 2020 of "8830-20xx XYZ Substation" for that same substation project. Each year the Company will prepare a project close out form for every open project number that addresses all costs incurred during that calendar year, until a project is completed and put into service. Then, when calculating the full cost of a project to support a request for recovery, the Company will draw from all of the applicable annual close out forms. Therefore, the total amount reflected in a single year's project close out form may not match the amount for which the Company ultimately seeks recovery. "Blanket" projects follow the same logic. A blanket project number is used for a task that the Company routinely performs every year, such as Meter Replacements or Public Requirements (work requested by municipalities and the state every year to, for example, move poles and wires for road widening projects). Rather than having a separate project number for every one of these municipal and state projects (there are often hundreds), there is a Public Requirements Blanket project number to cover all such jobs, and each specific job within that blanket will be issued a "work order" number, the costs for which will roll up into the overall Public Requirements Blanket project number. Some of the specific tasks, or "work orders" in the Company's vernacular, are not completed and placed into service in a single calendar year. Those work orders will incur costs during the first calendar year, but since the work is not complete and placed into service during that first calendar year, additional costs will be incurred in subsequent

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The "8830" prefix identifies the project as a Granite State Electric matter within the Company's accounting system. "8840" indicates an EnergyNorth project.

- calendar years. The spending for that specific work order will thus be reflected in the appropriate blanket project's close out forms for each calendar year during which the specific work order incurred costs.
- Similar to the substation project example above, when a multi-year work order operating under a blanket project number is placed into service, its costs are summed from each of the applicable blanket project's annual close out forms, and that total is the amount for which the Company will seek recovery.
- Q. Attachment 1, page 2, has a column titled Total Spend. Please explain what is
 populated in this column.
- 10 A. As noted above, not all work orders taken out under project numbers go into service in the same year they are started. In this proceeding, the Company is seeking cost recovery 11 only for capital projects that were placed into service in 2021 under the listed project 12 numbers in Attachment 1, page 2. Some of these project numbers have actual spending 13 14 of less than the budget amounts provided in the description of each project below and on page 1 of each project's backup documentation, Attachments 2 through 19. Those 15 projects incurred costs under work orders that started in prior years but did not go into 16 service until 2021. The spending for those prior years was captured in the business cases, 17 change order forms if necessary, and prior-year project close out forms. Any spending 18 for those work orders in 2021 is captured in the 2021 business cases, change order forms 19 if necessary, and project close out forms. 20

1 Q. Please explain blanket projects.

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A. As discussed above, blanket projects are those projects that have numerous work orders taken out for smaller jobs, sometimes hundreds of them. For example, charges arise from municipal requests for jobs such as relocating poles for road widening (Public Requirements Blanket) and from damage to equipment (Damage Failure Blanket) that were unknown until the request arrives at the Company or the equipment fails. Each year the Company looks at spending from previous years to determine an appropriate spending amount, or budget, for these blankets. For example, in 2017 and 2018, the final spending for the Public Requirements Blanket was \$414,432 and \$441,939, respectively. The 2019 10 budget was set at \$520,000, above the spending for the previous two years, yet the total charges for 2019 came in at \$668,186. These are difficult budgets to set due to the emergent nature of the work and the unknown quantity and cost of those requests when 12 the budget is established. Also, the Company does not have the option to defer these 13 requests due to their nature, as can be done with other types of work orders such as 14 replacing conductors for reliability (Enhanced Bare Conductor project). 15

Q. Are there projects in this filing that were substituted for projects listed in the **Settlement Agreement?**

No. Attachment 2 to the Settlement Agreement listed the 2019 and 2020 projects to be A. recovered through the 2020 step filing, only. The 2021 list was included in the 2020 Step Adjustment filing on April 6, 2021, Attachment 12. The Settlement Agreement provided flexibility to substitute projects with the following limitations:

Liberty reserves the right to substitute projects into Attachment 2 so long as any new projects are not growth projects and are not related to the Rockingham Substation or the 115kV transmission line.

Settlement Agreement in Docket No. DE 19-064, Hearing Exhibit 37, at 4.

There are seven projects totaling \$2.6 million listed in Attachment 12 to the 2020 Step Adjustment filing that are not included in this filing, with the Company substituting other projects in their place. The added projects are not growth projects and are not related to the Rockingham Substation or the 115kV transmission line, in compliance with the language quoted above.

The list of projects being removed from the list filed on April 6, 2021, is provided in the table below and described in detail following the table.

Planned Project	2021 Planned In Service Amount
Battery Pilot	\$600,000
Golden Rock Substation	\$400,000
Golden Rock Underground	\$160,000
Tuscan Village EV Chargers	\$400,000
SCACA & Distribution Automation	\$200,000
Install 9L2 9L3 Tie Line	\$356,405
URD Cable Replacement	\$500,000
Total	\$2,616,405

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Battery Pilot – The total charges for 2021 did not include the final Tesla invoice,
 but included CIAC, which created negative total charges. The final Tesla invoice
 was processed in January 2022 and the final costs of Phase One will be included
 in the Company's next rate case.

- Golden Rock Substation this project was originally scheduled to occur in 2021. The scope of this project was to install a new 19L2 breaker position at the substation. The project was deferred due to project schedule delays associated with the construction of Liberty's 115 kV supply line, which included coordination with National Grid's construction of the interconnection point. Due to National Grid's project delays, Liberty performed an analysis of the electric system in the Salem area and determined that the 19L2 breaker position could not be installed. The 13kV bus at the substation is required to be out of service to accommodate construction of this feeder addition, however, this would have constrained the system in the Salem Area and resulted in planning criteria violations during N-1 contingencies. If a failure had occurred on the supply line with the Golden Rock substation out of service to install the breaker position, the Company would not have been able to isolate load and its contingency planning would be at risk. The Company decided it was best to postpone the substation portion of the project until 2022. All 2021 spending was for engineering only.
- Golden Rock Underground The scope of this project was to install the underground distribution cable that would connect the substation to the overhead distribution system. This work coincided with the Golden Rock substation work and as such had to be delayed until 2022.
- Tuscan Village EV Chargers The Company purchased the chargers and had the
 installation ready to go, but the Town of Salem denied the building permit in
 November 2021. The Planning Board reviewed the request for the installation in
 February 2022 and approved the request. The stations will be installed in Q2
 2022.
- SCADA & Distribution Automation The scope of this project was to perform engineering design work for the Remote Terminal Unit (RTU) replacement at Spicket River and Mount Support substations. Both of the RTUs at the substations are obsolete and past their useful life. The scope of work also included the actual replacement of the RTU at the Spicket River substation. The replacement of the RTU at Mount Support was always planned for 2022. The Company postponed the project until 2022 due to competing projects with internal crews.

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• Install 9L2 9L3 Tie Line – The total 2021 carryover was \$32,571, not \$350,000 as anticipated, and as such the Company is removing this project from the 2021 step adjustment request and will recover the full amount, including the \$32,571 in its next rate case.

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• URD Cable Replacement – The scope of this project was to replace underground residential development cable (URD) in residential developments that commonly fail. The Company decided to reassess and reprioritize its existing list of URDs needing full replacement. As such, the 2021 project was put on hold and the Company will review the URD projects in 2022.

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The Company substituted \$2.1 million of investment in other projects as replacement for the projects listed above from the 2020 Step Adjustment filing as shown in the table

below:

Replacement Project	Actual 2021 In Service Amount
Lebanon Pole Pile	\$345,099
General Equipment Blanket	\$188,456
Street Light Blanket	\$98,979
IT Systems & Equipment	\$379,187
DTN Weather Upgrade	\$182,483
Meter Test Board	\$248,313
Salem Garage	\$667,641
Total	\$2,110,158

2		second step adjustment.
3	A.	Following are the nineteen projects for which the Company seeks to commence cost
4		recovery on July 1, 2022:
5		1. 8830-1958 Install Service to Tuscan Village Attachment 2
6		This project installed a new UG conduit loop system along Tuscan Village Park to supply
7		new growth in the commercial development. The project consisted of providing service
8		to a customer located on the south parcel of Tuscan Village. The scope of work included
9		installation and acceptance testing of approximately 2,000 feet of 1,000 MCM CU EPR
10		15 kV jacketed primary cable and 4/0 neutral, installation and acceptance testing of
11		approximately 200 feet of 3C-4/0 underground cable, and installation of PME-9
12		switchgear. The Company also installed 600 feet of 3C-4/0 underground cable to connect
13		the customer to its 150 kVa transformer for service.
14		The Company also installed and completed acceptance testing of approximately 1,500
15		feet of 3C-4/0 underground cable for the de-watering of the southern parcel of the Tuscan
16		Village.
17		Tuscan cost-sharing for Central Village – the scope of this project was to install
18		necessary infrastructure inside Tuscan Village which consisted of underground conduits,
19		manholes, underground primary and secondary cable, switchgear, and transformers.
20		During the detailed design phase of the underground manhole and duct system for Tuscan
21		Village, the Company identified several areas within the development that would require
22		additional conduits to be installed in the future to provide the necessary underground

Please describe the particular projects for which the Company seeks recovery in this

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Development in future years. Tuscan and the Company agreed there would be cost savings to install these conduits now prior to the area being developed as opposed to installing the underground infrastructure later and incurring costly pavement restoration fees. Tuscan and the Company also mutually agreed to utilize the same civil contractor and share costs for this work as this would eliminate significant schedule coordination efforts and once again provide cost savings due to economies of scale.

The total request for cost recovery for project 8830-1958 is \$1,235,243. Please see the table below for the breakdown of the budget and costs for 2021.

		<u> Total Spend -</u>	
	<u>Total</u>	2021 In Service	Request for
<u>Year</u>	Budget	$\underline{\text{WO}}$	Cost Recovery
2019	\$1,200,000	\$98,244	\$98,244
2020	\$900,000	\$182,634	\$182,634
2021	\$1,000,000	\$954,365	\$954,365
		\$1,235,243	\$1,235,243

2. 8830-2069 Golden Rock Feeder 19L2 Attachment 3

The 2376W circuit supplies the Spicket River Substation and originates from Ward Hill, via a pole-mounted recloser located in the Spicket River Massachusetts Right of Way. Approximately 5.2 miles of the 2376W line is exposed to outages without any backup, with 4.3 miles in National Grid maintenance territory and 0.9 miles in Liberty's territory. Liberty relies on National Grid to expedite repairs should an outage-related problem occur. The loss of the 22.8 kV source for an outage on the 5.2-mile section would require the Spicket River circuits to be backed up by existing distribution circuit ties, however,

area feeders are not positioned geographically to re-supply the Spicket River distribution feeders. Loss of the 22.8 kV sub-transmission supply circuit to the Spicket River No.13 Station could cause Liberty to have up to 226 MWHrs of load at risk after restorative switching occurs and for an assumed repair time of 12 hours. This violates Liberty's planning criteria of 120 MWHrs.

The scope of this project was to reconductor approximately 15,300 feet of overhead bare wire with 477 tree wire in Spacer Cable configuration and tie it into the newly installed 19L2 breaker position at the Golden Rock substation. The original estimate of \$2.1 million was based on average contractor bids received in 2020 for similar reconductor projects. The average contractor cost per foot for all bids received in 2020 was \$68.79/foot. Multiplying this cost/foot by length of project and including all other construction costs such as tree trimming, construction oversight, traffic control, materials, and all associated burdens, resulted in an estimate of \$2.1 million. A local New Hampshire contractor was the successful bidder for this project through a competitive bid process. The project came in under budget due to the contractor bid price coming in less than the original estimate.

The total request for cost recovery for project 8830-2069 is \$1,523,493. Please see the table below for the breakdown of the budget and costs for 2021.

	<u>Total</u>	<u>Total Spend -</u>	Request for
Year	Budget	2021 In Service	Cost Recovery
2020	\$1,300,000	\$134,456	\$134,456
2021	\$2,100,000	\$1,389,037	\$1,389,037
		\$1,523,493	\$1,523,493

3. <u>8830-2086 Lebanon Pole Pile Attachment 4</u>

This project addressed the severe safety issues regarding the pole pile at the Lebanon work center. Prior to building the new pole pile, employees had to climb onto a single large pile to access the poles they needed for jobs. The danger to employees slipping and falling or some other injury was identified and mitigated by this project, which entailed the building of a number of log bunks for the poles to lay on. The Company originally expected to spend \$652,750 based on the original scope of work. The scope was reduced and as such the Company spent \$345,099, which is the request for cost recovery. Please see the table below for the breakdown of the budget and costs for 2021.

	<u>Total</u>	Total Spend -	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2020	\$652,750	\$26,424	\$26,424
2021	\$652,750	<u>\$318,675</u>	<u>\$318,675</u>
		\$345,099	\$345,099

4. 8830-2107 General Equipment Blanket Attachment 5

This blanket project covers general equipment used in execution of work for Liberty Electric operations. The types of tools and equipment purchases included in this project are mobile cable pullers, digital phasing meters, load break tools, and power quality meters, among other items.

For projects under \$50,000, the Company's Liberty Way Policy & Procedures Capital Expenditures Planning and Management policy does not require a business case.

Therefore, only a capital expenditure form is provided, along with the change order and project close out forms.

This project was not included in the original plan and was one of several projects added for 2021. The total request for cost recovery for project 8830-2107 is \$188,546. Please see the table below for the breakdown of the budget and actual spend in service in 2021.

	<u>Total</u>	Total Spend -	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2021	\$50,000	<u>\$188,456</u>	\$188,456
		\$188,456	\$188,456

5. <u>8830-2110 Street Light Blanket Attachment 6</u>

The Street Light blanket provides funding associated with new and/or existing lighting facilities which includes installing new street lights or floodlights, replacing street lights or floodlights due to size, model, or condition, installing conductor service street lights or floodlights, and installing street light poles or standard poles for street lighting.

This project was not included in the original plan and was added to the list of 2021 projects for recovery in this filing. The total request for cost recovery for project 8830-2110 is \$98,979. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	<u>Total Spend -</u>	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2021	\$125,000	<u>\$98,979</u>	\$98,979
		\$98 979	\$98 979

6. <u>8830-2111 Public Requirements Blanket Attachment 7</u>

Public Requirements Blanket provided funding for projects that arose during the year in response to requests from municipalities and the State of New Hampshire to relocate the Company's poles, associated equipment on the poles, and guy wires to accommodate various state and municipal projects, such as road widening projects. Depending on the scope of the job, Liberty crews or contractors may have performed the work. For work requiring contractors, the Company engaged in a competitive bid process, the bids were analyzed for price, timeline, and qualifications of the contractors, and the Company awarded the project to the bidder with the best solution, which, all things being equal, price was usually the deciding factor.

The total request for cost recovery for project 8830-2111 is \$308,503, which is lower than anticipated. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	<u>Total Spend -</u>	Request for
Year	Budget	2021 In Service	Cost Recovery
2019	\$630,000	\$14,249	\$14,249
2020	\$1,000,000	\$81,457	\$81,457
2021	\$520,000	\$212,798	\$212,798
		\$308,503	\$308,503

7. <u>8830-2112 Damage/Failure Blanket Attachment 8</u>

The purpose of the Damage/Failure Blanket is to provide funding to repair damage to the Company's equipment arising from unplanned, but regularly occurring, instances such as poles beyond their useful life, failed transformers, lightning strikes, animal contacts, and

motor vehicle accidents. Depending on the scope of the job, Liberty crews or contractors may have performed the work. For work requiring contractors, the Company engaged in a competitive bid process, the bids were analyzed for price, timeline, and qualifications of the contractors, and the Company awarded the project to the bidder with the best solution, which, all things being equal, price was usually the deciding factor.

The total request for cost recovery for project 8830-2112 is \$2,022,586, which is higher than originally planned due to a significant amount of equipment that was found to be damaged or failed during 2021. The costs span 315 work orders. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	<u>Total Spend -</u>	Request for
Year	Budget	2021 In Service	Cost Recovery
2020	\$1,000,000	\$66,895	\$66,895
2021	\$1,500,000	<u>\$1,955,691</u>	\$1,955,691
		\$2,022,586	\$2,022,586

8. 8830-2113 Distribution Asset Replacement Blanket Attachment 9

This project is associated with the replacement of line or substation assets based upon inspection, and asset condition information. The costs associated with 2021 relate to the replacement of poles that were condemned, undersized, and/or beyond their useful lives. The Company also replaced old and failure-prone underground cable under this project. The total request for cost recovery for project 8830-2113 is \$296,406, which is slightly above the original plan. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	Total Spend -	Request for
<u>Year</u>	<u>Budget</u>	2021 In Service	Cost Recovery
2020	\$400,000	\$10,705	\$10,705
2021	\$200,000	\$285,702	\$285,702
		\$296,406	\$296,406

9. 8830-2114 Third Party Attachments Blanket Attachment 10

This blanket project provides funding for make-ready work associated with Third Party Attachments. Re-working of electrical pole-mounted equipment is required at times to accommodate requests from third party companies (e.g., Comcast) to attach to Liberty's poles. This project funds those requests and any other requests from third parties for attachments.

The total request for cost recovery for project 8830-2114 is \$164,315, which is slightly above the planned amount. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	<u>Total Spend -</u>	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2020	\$100,000	(\$19,384)	(\$19,384)
2021	\$125,000	\$183,699	\$183,699
		\$164,315	\$164,315

10. 8830-2121 Distribution Reliability Blanket Attachment 11

This project provides funding for resolutions and improvements to system reliability performance. The types of work completed under this project are reconductoring due to mechanical capacity, replacing bare conductors to minimize tree-related interruptions, replacing open wire secondary with cable, replacing customer overhead service wire due

to condition, installing sectionalizing equipment, and increasing pole sizes for proper spacing and/or road clearance.

The total request for cost recovery for project 8830-2121 is \$174,854, which is slightly above the planned amount. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	Total Spend -	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2020	\$218,000	\$42,176	\$42,176
2021	\$161,000	<u>\$132,678</u>	<u>\$132,678</u>
		\$174,854	\$174,854

11. 8830-2124 LED Street Light Conversion Attachment 12

This project provides funding to respond to Town/Municipality requests to convert existing Street Lighting to LED Street Lighting. The towns of Salem and Charlestown converted portions of their streetlights to LED. The costs include installing street or floodlights, replacing street or floodlights due to size, model, or condition, installing conductor serving the street or floodlights, and installing streetlight poles or standard poles.

The total request for cost recovery for project 8830-2124 is \$387,666, which is above the planned amount for 2021 as the projects spanned 2020 and 2021 but the lights were not in service until 2021. Please see the table below for the breakdown of the budget and actual spend for in 2021.

		Total Spend -	
	<u>Total</u>	2021 In Service	Request for
<u>Year</u>	Budget	$\underline{\text{WO}}$	Cost Recovery
2020	\$200,000	\$114,064	\$114,064
2021	\$125,000	\$273,602	\$273,602
		\$387,666	\$387,666

12. 8830-2125 IT Systems & Equipment Blanket Attachment 13

As the Company transitions to SAP, it is beginning to streamline the operation of various payment vendors. Since the payment vendors operate independently of each other, there are challenges in delivering a consistent customer experience and payment product offerings across the enterprise. By serving customers through a single channel, the Company can expect to see operational efficiencies through call reduction, vendor cost reduction, and business process improvements. With the current technological innovation in the payments industry and the regulations that contribute to its evolution, there is a significant shift in customer expectations of doing business with the Company. Customers now expect and/or demand not only consistent and robust self-service payment options but also a smoother user experience in a manner that balances security and convenience.

The Company completed the Payment Processing Project delivering the foundation for a single payment processing platform for the enterprise. The enterprise-wide cost of the project was \$3,329,840 with approximately 11 percent allocated to the Company. The following table provides the scope of work completed. Attachment 13 includes further details of the scope.

#	Payment Channels	Tender types		
*	Payment Chamieis	E-Check	Credit card	Debit card
1	<u>Libertyutillities.com.</u> One-time payment for non- registered customers	✓	✓	✓
2	IVR. Payments via LU's Toll-Free Number	✓	✓	✓
3	Point of Sale (card readers). Customers walking into the local office with their credit/debit cards	*	✓	✓
4	Auto-Pay. Customers with banking info setup at LU.	✓	✓	✓

This project was not included in the original plan and was one of several projects substituted into the 2021 list. The total request for cost recovery for project 8830-2125 is \$379,187. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	<u>Total Spend -</u>	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2021	\$3,329,840	\$379,187	\$379,187
		\$379,187	\$379,187

13. 8830-2146 Bare Conductor Replacement Program Attachment 14

The scope of this project was to reconductor approximately 7,920 feet of overhead bare wire with 477 tree wire in Spacer Cable configuration. The original estimate of \$1 million was based on average contractor bids received in 2019 for similar reconductor projects. The average contractor cost per foot for all bids received in 2019 was \$74/foot. Multiplying this cost/foot by length of the project and including all other construction costs such as tree trimming, construction oversight, traffic control, materials, and all associated burdens, resulted in an estimate of \$1 million. A local New Hampshire contractor was the successful bidder for this project through a competitive bid process.

- The project came in under budget due to the contractor bid price coming in less than the original estimate.
- The total request for cost recovery for project 8830-2146 is \$691,575. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	Total Spend -	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2020	\$875,000	\$23,483	\$23,483
2021	\$1,000,000	\$668,092	\$668,092
		\$691,575	\$691,575

14. 8830-2180 DTN Weather Upgrade Attachment 15

The Company updated its storm tool from DTN, the subscription weather service that provides the Company with weather forecasts to assist in storm restoration planning efforts and providing the necessary support for determining whether an event qualifies as a major storm for cost recovery purposes. Prior to the upgrade, the Company only received static data provided by the meteorologists each day without any prediction of hazards to our distribution system. The upgrade provides storm event modeling through artificial intelligence (AI). The AI provides machine learning applied to outage prediction, meteorologist-enhanced artificial intelligence, and probabilistic outcomes and risk communication. Modeling hazards have provided greater detail and allowed us to make better, potentially less expensive, decisions on how to respond to the storm event.

This project was not included in the original plan and was one of several projects substituted in 2021. The total request for cost recovery for project 8830-2180 is

\$182,483. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	Total Spend -	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2021	\$226,250	<u>\$182,483</u>	<u>\$182,483</u>
		\$182,483	\$182,483

15. 8830-2185 Meter Test Board Attachment 16

Liberty's meter test board is used to test its electric meters in compliance with state and federal guidelines. The board is used to test new meters purchased from the manufacturer as well as meters returned from the field. The new meter board allows the Company's meter workers to be more efficient as the board is sized appropriately for the meters going in and out of the meter shop. The current test board has four-meter sockets and has reached its end of life. The new test board is larger and has the additional functionality to test remote disconnect/reconnect functionality of the meters.

This project was not included in the original plan and was one of several projects added to the 2021 list. The total request for cost recovery for project 8830-2185 is \$248,313. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	<u>Total Spend -</u>	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2021	\$300,000	\$248,313	\$248,313
		\$248 313	\$248 313

16. <u>8830-2190 Transportation Attachment 17</u>

The scope of this project provides for annual purchases of vehicles required for the Company. A review and assessment of the fleet is performed in conjunction with operations to determine if any fleet additions and replacements are needed based on the current condition (mileage and age) of the fleet as determined in the corporate fleet policy.

The total request for cost recovery for project 8830-2190 is \$253,649. The project is underspent due to the vehicle orders not being placed in service by December 31, 2021. Please see the table below for the breakdown of the budget and actual spend for in 2021.

		Total Spend -	
	<u>Total</u>	2021 In Service	Request for
Year	Budget	$\underline{\text{WO}}$	Cost Recovery
2021	\$1,000,000	\$253,649	\$253,649
		\$253,649	\$253,649

17. 8830-2191 Meter Purchases Attachment 18

This project provided funding for the purchase of electric meters. These meters were required to replace units that had failed in the field and for meters required to serve new customers requesting service. The Company purchased 1,208 meters along with other devices such as current transformers to meet the metering needs for 2021.

The total request for cost recovery for project 8830-2191 is \$379,368, which was over budget due to the need to purchase more meters than anticipated. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	<u>Total Spend -</u>	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2021	\$250,000	\$379,368	\$379,368
		\$379,368	\$379,368

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18. 8830-2192 Transformer Purchases Attachment 19

- The transformer purchases project provided funding for the purchase of electric
- 4 transformers to replace units that had failed in the field and for transformers required to
- 5 support electric reliability and new construction.
- The total request for cost recovery for project 8830-2192 is \$639,262, which is over
- budget due to the need to purchase more transformers than anticipated. Please see the
- table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	<u>Total Spend -</u>	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2021	\$420,000	\$639,262	\$639,262
		\$639,262	\$639,262

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19. 8830-2197 Salem Garage Attachment 20

- The Salem Garage project is the expansion of the back garage at the Salem operations
- center to house a substation repair and testing facility. The purpose of the expansion is to
- provide a dedicated, secure, and safe site for substation employees to perform repairs and
- testing. The prior testing location at the Lebanon operations center was not adequate.
- This project was not included in the original plan and was one of several projects
- substituted in 2021. The total request for cost recovery for project 8830-2197 is

\$639,262. Please see the table below for the breakdown of the budget and actual spend for in 2021.

	<u>Total</u>	Total Spend -	Request for
<u>Year</u>	Budget	2021 In Service	Cost Recovery
2021	\$700,000	<u>\$667,641</u>	<u>\$667,641</u>
		\$667,641	\$667,641

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4 IV. PBR & ADVANCED RATE DESIGN ROADMAP

- 5 Q. As part of the Settlement Agreement in DE 19-064 was the Company required to
- 6 present performance-based ratemaking (PBR) opportunities for its next rate case to
- 7 parties?
- 8 A. Yes. The Company met with parties in 2021 and presented various performance-based
- 9 ratemaking ideas with performance incentive mechanisms.
- 10 Q. Have parties provided feedback since the presentation in September 2021?
- 11 A. No, they have not. The Company has reached out to parties requesting feedback more
- than once but has not received it as of the date of this filing. Liberty is committed to
- continuing the discussion with parties to further refine performance-based ratemaking
- options to be presented as part of the Company's next base distribution rate case.
- 15 Q. What is the Advanced Rate Design Roadmap?
- 16 A. The Company agreed to develop an Advanced Rate Design Roadmap for its next rate
- case that would include but not be limited to:
- (1) an explanation of how Liberty plans to leverage the functionality of its
- existing and planned investments, particularly meters, to maximize

ratepayer benefits, and (2) Liberty's plans for the future of rates for each customer class, including the extent to which the utility plans to rely on innovative rate design techniques such as time-of-use rates, critical peak pricing, etc. For each customer class, Liberty shall specify the general design characteristics (e.g., number of time periods, number of hours within each period, and pricing ratios between each period) and the investment needed to enable the rate design, the associated timeline and the nature of the rollout (e.g., opt-out versus optional rate designs).

A.

Settlement Agreement in Docket No. DE 19-064, Hearing Exhibit 37, at 9–10.

Q. Was the Advanced Rate Design Roadmap (ARDR) part of the presentation to parties?

Yes. As part of the presentation in 2021 on PBR, the Company provided insight into ideas for ARDR such as integrated demand-side management for electric vehicles, demand response, and time-based rates, but these will be predicated on the Company installing Advanced Metering Infrastructure (AMI). The rate designs will allow for the potential of more robust commercial and industrial time-varying rate structures and demand response programs. The Company is committed to continuing the conversation on advanced rate design to be presented as part of the Company's next base distribution rate case. The Company anticipates beginning the implementation of AMI in 2023 and being completed in 2025. The Company will include ARDR in its next rate case, anticipated to be filed in 2023.

1 V. <u>REVENUE REQUIREMENT</u>

- 2 Q. What is the revenue requirement associated with the requested capital projects?
- 3 A. The total cost of all nineteen projects above for which the Company seeks recovery in
- 4 this filing is \$10,187,080. The associated revenue requirement, which is calculated as
- described below and in Attachment 1, is \$1,751,403.
- 6 Q. Was the Company capped at a revenue requirement?
- 7 A. Yes. The total cap for the 2021 revenue requirement was \$1,800,000. The Company did
- 8 not reach its cap due to bids coming in lower on certain projects and under-spending for
- 9 others.
- 10 Q. Please explain the inputs used to determine the revenue requirement.
- 11 A. The investments and capital structure included in Attachment 1 are those that were in
- service by December 31, 2021, and in the approved Settlement Agreement in this docket
- or replaced as allowed. Page 1 of Attachment 1 provides the total costs of each project
- and the calculation of the book depreciation rate. The property tax rate of 3.12 percent is
- calculated using the property tax rate from the Company's last approved annual
- Reliability Enhancement Plan/Vegetation Management Plan, which was filed in Docket
- No. DE 21-049 and is based on FERC Form No. 1 data as of December 31, 2018. The
- tax rates of 21 percent (federal) and 7.7 percent (state) are for the taxable period ending
- 19 December 31, 2021.
- 20 Q. Please explain what page 2 of Attachment 1 provides for information.
- 21 A. Page 2 of Attachment 1 provides the revenue requirement calculation by FERC account.

1	Q.	What information is included on page 3 of Attachment 1?
2	A.	Page 3 of Attachment 1 provides the calculation of the removal of fully recovered rate
3		case expenses and recoupment per the Settlement Agreement on Bates 7-8. Please see
4		the summary below.
		2021 Capital \$1,751,403 Less: Recoupment \$1,939,679 Less: Rate Cases Expenses \$565,077
5		Total Change (Decrease) (\$753,353)
6	Q.	What is the bill impact to residential customers?
7	A.	A residential customer using 650 kWh per month and taking energy service from the
8		Company's default service offering will see a decrease to their monthly bill of (\$0.84), or
9		(0.55%), from \$155.00 to \$154.16 effective July 1, 2022, compared to current rates in
10		effect as of April 6, 2022.
11	VI.	<u>DOCUMENTATION</u>
12	Q.	Has the Company provided supporting documentation for the projects described
13		above?
14	A.	Yes. Please see the following attachments for the business cases, change order forms,
15		project close out forms and a breakdown by cost element of each project's cost.
16 17 18 19		 Attachment 2: 8830-1958 Install Service to Tuscan Village a. Business Case b. Change Order - N/A, project was under budget c. Project Close Out – N/A, project is ongoing through 2022

1	2. Attachment 3: 8830-2069 Golden Rock Feeder 19L2
2	a. Business Case
3	b. Change Order – N/A, project was under budget
4	c. Project Close Out
5	3. Attachment 4: 8830-2086 Lebanon Pole Pile
6	a. Business Case
7	b. Change Order - N/A, project was under budget
8	c. Project Close Out
9	4. Attachment 5: 8830-2107 General Equipment Blanket
10	a. Capital Expenditure - Business case is not required for mandated
11	projects
12	b. Change Order
13	c. Project Close Out
14	5. Attachment 6: 8830-2110 Street Light Blanket
15	a. Capital Expenditure - Business case is not required for mandated
16	projects
17	b. Change Order
18	c. Project Close Out
19	6. Attachment 7: 8830-2111 Public Requirements Blanket
20	a. Capital Expenditure - Business case is not required for mandated
21	projects
22	b. Change Order – N/A, project was under budget
23	c. Project Close Out
24	7. Attachment 8: 8830-2112 Damage/Failure Blanket
25	a. Capital Expenditure - Business case is not required for mandated
26	projects
27	b. Change Order
28	c. Project Close Out
29	8. Attachment 9: 8830-2113 Distribution Asset Replacement Blanket
30	a. Capital Expenditure - Business case is not required for mandated
31	projects
32	b. Change Order
33	c. Project Close Out

1	9. Attachment 10: 8830-2114 Third Party Attachments Blanket
2	a. Capital Expenditure - Business case is not required for mandated
3	projects
4	b. Change Order
5	c. Project Close Out
6	10. Attachment 11: 8830-2121 Distribution Reliability Blanket
7	a. Capital Expenditure – Business case is not required for mandated
8	projects
9	b. Change Order– N/A, project was under budget
10	c. Project Close Out
11	11. Attachment 12: 8830-2124 LED Street Light Conversion
12	a. Capital Expenditure - Business case is not required for mandated
13	projects
14	b. Change Order– N/A, project was under budget
15	c. Project Close Out
16	12. Attachment 13: 8830-2125 IT Systems & Equipment Blanket
17	a. Business Case
18	b. Change Order
19	c. Project Close Out $-N/A$, project is ongoing through 2022
20	13. Attachment 14: 8830-2146 Bare Conductor Replacement Program
21	a. Business Case
22	b. Change Order– N/A, project was under budget
23	c. Project Close Out
24	14. Attachment 15: 8830-2180 DTN Weather Upgrade
25	a. Business Case
26	b. Change Order– N/A, project was under budget
27	c. Project Close Out
28	15. Attachment 16: 8830-2185 Meter Test Board
29	a. Business Case
30	b. Change Order– N/A, project was under budget
31	c. Project Close Out

1		16. Attachment 17: 8830-2190 Transportation
2		a. Business Case
3		b. Change Order- N/A, project was under budget
4		c. Project Close Out
5		17. Attachment 18: 8830-2091 Granite State Meter Purchases
6		a. Business Case
7		b. Change Order – N/A, project was under budget
8		c. Project Close Out
9		18. Attachment 19: 8830-2192 Granite State Transformer Purchases
10		a. Business case
11		b. Change Order – N/A, project was under budget
12		c. Project Close Out
13		19. Attachment 20: 8830-2197 Salem Garage
14		a. Business case
15		b. Change Order – N/A, project was under budget
16		c. Project Close Out
17		20. Attachment 21: Redline tariff
18		21. Attachment 22: Clean tariff
19	VII.	CONCLUSION
20	Q.	Please summarize the Company's request for the step adjustment.
21	A.	Through this testimony and the attached documents, the Company has established that
22		the described projects are in service, are used and useful for the provision of electric
23		distribution service, and were completed at a reasonable cost. The requested step
24		decrease is thus just and reasonable and should be approved by the Commission with the
25		projects found to be prudent. The Company requests a decision by June 15, 2022, to
26		allow time for rates to be implemented for effect by July 1, 2022.

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Docket No. DE 19-064
Direct Testimony of A. Strabone and H. Tebbetts
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- 1 Q. Does this conclude your testimony?
- 2 A. Yes.