Docket No. DE 19-064 Exhibit 7



# STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Docket No. DE 19-064

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

**DIRECT TESTIMONY** 

**OF** 

JOEL RIVERA,

ANTHONY STRABONE,

**AND** 

**HEATHER M. TEBBETTS** 

April 30, 2019

Docket No. DE 19-064 Exhibit 7

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Liberty Utilities (Granite State Electric) Corp.

d/b/a Liberty Utilities

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

- 2 Q. Mr. Rivera, please state your full name and business address.
- 3 A. My name is Joel Rivera and my business address is 9 Lowell Road, Salem, New
- 4 Hampshire.

- 5 Q. By whom are you employed and in what position?
- 6 A. I am employed as the Manager of GIS and Electric System Planning by Liberty Utilities
- 7 Service Corp. ("Liberty"), which provides services to Liberty Utilities (Granite State
- 8 Electric) Corp. ("Granite State" or "the Company"). In my capacity as Manager of GIS
- and Electric System Planning, I am responsible for managing Granite State's electric
- system capacity, reliability, integrity, interconnections, protection systems, equipment
- and system upgrades, prioritization, and associated budget estimates.
- 12 Q. Please describe your educational background and certifications.
- 13 A. I graduated from Universidad Interamericana de Puerto Rico in 2003, earning a
- bachelor's degree in electrical engineering. I also earned a master's degree in electrical
- engineering from the University at Buffalo in 2017.
- 16 Q. Please describe your professional experience.
- 17 A. In 2006, I began my engineering career as an associate engineer with National Grid USA
- 18 ("National Grid") in Buffalo, New York. By 2009, I had progressed to senior engineer in
- the distribution planning department for National Grid's electric distribution system in
- Buffalo. In 2009, I was promoted to lead engineer and was responsible for distribution
- 21 planning, asset management, protection, and reliability functions for National Grid's

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electric distribution system in both New England and New York. In 2013, I assumed the role of Planning Engineer - Electric for Liberty. In 2018, I was promoted to Manager of GIS and Electric System Planning and I am responsible for electric and gas map records and for developing and implementing the company's electric system planning initiatives in the electric delivery business.

# 6 Q. Have you previously testified before the New Hampshire Public Utilities

- 7 Commission ("the Commission")?
- 8 A. Yes, I testified before the Commission on the Company's Reliability Enhancement
  9 Program for program years 2016, 2017, and 2018.
- 10 Q. Mr. Strabone, please state your full names, business address, and position.
- 11 A. My name is Anthony Strabone and my business address is 9 Lowell Road, Salem, New
  12 Hampshire. I am the Manager of Electrical Engineering for Liberty and I am responsible
  13 for the electric capital work plan whereby I manage engineering and construction
  14 resources for capital projects.
- 15 Q. Please describe your educational background and training.
- 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

  (PMP) Certification in 2017 from the Project Management Institute.

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1	Ο.	Please describe	your professional	background.
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- 2 A. I joined Liberty in November 2014. Prior to my employment at Liberty, I was employed
- by PSNH as a Substation Supervisor in Substation Maintenance from 2010 to 2014.
- 4 Prior to my position in Substation Maintenance, I was a Substation Engineer in
- 5 Substation Engineering from 2008 to 2010 and an Engineer in the System and Planning
- 6 Strategy department from 2004 to 2008.

## 7 Q. Have you previously testified before the Commission?

- 8 A. Yes, I testified in support of the Company's 2019 step adjustment in Docket No. DE 16-
- 9 383.
- 10 Q. Ms. Tebbetts, please state your full name, business address, and position.
- 11 A. My name is Heather M. Tebbetts and my business address is 15 Buttrick Road,
- Londonderry, New Hampshire. I am Manager of Rates and Regulatory Affairs for
- Liberty and am responsible for providing rate-related services for Granite State.

#### 14 Q. Please describe your educational background and training.

- 15 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
- Hampshire University in 2007.

# 18 Q. Please describe your professional background.

- 19 A. I joined Liberty in October 2014. Prior to my employment at Liberty, I was employed by
- 20 PSNH as a Senior Analyst in NH Revenue Requirements from 2010 to 2014. Prior to my
- 21 position in NH Revenue Requirements, I was a Staff Accountant in PSNH's Property Tax

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group from 2007 to 2010 and a Customer Service Representative III in PSNH's Customer

2 Service Department from 2004 to 2007.

## 3 Q. Have you previously testified before the Commission?

4 A. Yes, I have testified on numerous occasions before the Commission.

#### 5 II. PURPOSE OF TESTIMONY

## 6 Q. What is the purpose or your testimony?

- 7 A. The purpose of our testimony is to provide the capital spending breakdown for calendar
- years 2017 and 2018 in support of the Company's request for a permanent rate increase.
- In addition, since the Company is also proposing a series of annual step increases for
- non-growth related capital spending projects, we provide details of some of the
- significant planned capital spending in future years. These step increases are needed to
- address the issue of earnings attrition that Granite State experiences between rate cases,
- even when it files rate cases on a relatively frequent basis. With more prompt cost
- recovery for capital investments, the timing of rate cases for Granite State will be less
- frequent since the primary factor driving the need for rate cases is recovery of capital
- investment, particularly non-growth related capital investments. This issue is further
- discussed in the testimony of Steven E. Mullen.

# 18 III. GRANITE STATE'S OPERATIONS AND SYSTEM INVESTMENT

- 19 Q. Please provide an overview of Granite State's operations.
- 20 A. Granite State distributes electricity to approximately 44,600 residential, commercial, and
- 21 industrial customers in 21 communities in Southern and Western New Hampshire. To

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serve its customers, the Company utilizes 15 distribution substations supplying 48 distribution and sub-transmission feeders. Approximately 80 percent of the 1,140 miles of distribution and sub-transmission circuits on the Company's system are overhead facilities operating at voltage levels ranging from 2.4 kV to 23 kV. Roughly 99 percent of the distribution and sub-transmission system operates in the 15 kV class range or below (2.4kV to 13.8 kV).

## Q. What is the Company's operational philosophy?

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- A. The Company's fundamental goal is to provide safe and reliable electric service to its customers at reasonable cost, while placing a strong emphasis on maintaining a local focus. We develop local reliability and integrity programs that are tailored to our New Hampshire system. We also plan and develop our system to reflect our resource and outage response capabilities to weather events and system contingencies. We believe this planning and operating model allows the Company to be more responsive to the needs of its customers and stakeholders.
- 15 Q. How much capital has the Company invested in its distribution system since its last
  16 distribution rate case, Docket No. DE 16-383?
- 17 A. The DE 16-383 rate case had a 2015 test year and included capital investments for that

  18 year, and also provided for a step increase to recover non-growth related capital

  19 investments in 2016. Since then, the Company has invested approximately \$36.0 million

  20 of capital in its distribution system and general plant from 2017 through December 2018.

  21 Of the \$36.0 million total, approximately \$3.7 million is related to the Company's

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Pelham Substation and related getaway cable projects, which costs were included in the step increases<sup>1</sup> that were approved in Docket No. DE 16-383. The remaining plant investments subject to cost recovery in this proceeding total approximately \$32.3 million. Using the gross amount invested for the period of \$36 million, less \$2.8 million recovered for REP projects through the annual reconciliation, approximately \$9.3 million was invested in mandated categories, which includes the following: \$3.9 million in new services to residential and commercial customers (new business), \$0.8 million in public requirements, \$1.5 million in response to equipment damage and failure, \$0.3 million in third party attachments, \$0.2 million in outdoor lighting, with the remainder split among many smaller projects. Non-mandated investments include \$26.6 million relating to projects such as the Salem Depot getaway cables, Rockingham substation, reconductoring Brookdale Road in Salem, providing service to new residential and commercial customers, and REP investments (which are discussed later in the testimony), \$3.5 million relating to capacity, \$4.2 million relating to asset replacement, \$0.3 million in facilities, and \$0.5 million in IT-related infrastructure and applications.

# IV. <u>DESCRIPTION OF 2017 AND 2018 PROJECTS</u>

17 Q. Please describe some of the specific capital projects that have been undertaken since
18 Docket DE 16-383.

19 A. <u>2017</u>

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As of the date of writing this testimony, the Company's request for approval of the second step adjustment with respect to recovery of the revenue requirement associated with \$1.25 million of those capital investments was pending as part of Docket No. DE 16-383.

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- The Pelham substation and getaway cable projects were completed and subsequently reviewed by the Commission Audit Staff. Those projects were part of the step adjustments in DE 16-383. The total cost of the project was \$5,014,490. Much of that total, \$3,650,000, was included in requests for recovery in accordance with the Settlement Agreement in that case. The Company is requesting recovery of the difference of \$1,364,490 through permanent rates in this case.
- The Company also installed one feeder position at the Michael Avenue substation to allow for retirement of the Charlestown substation due to issues with asset condition. The total cost of project was \$0.4 million.

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- The New Hampshire Department of Transportation ("NH DOT") rebuilt Route 12 in the Walpole/Charlestown area, which involved widening the road. The road widening required Granite State to move its poles in accordance with the NH DOT set back requirements. The road widening project impacted the Company's distribution system assets over approximately 2.5 miles. The overall cost of the project was \$1.5 million.
- In preparation for Dartmouth College combining its north and west campuses, the Company replaced and relocated approximately 1,700 feet of direct buried underground cables from one side of the road to the other, and installed a manhole and duct system, all to comply with the Company's latest underground

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1 construction standards. The total cost of that project was approximately \$1.3 million.

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- Tuscan Village, a 170 acre development in Salem, required improvements along
  Central Street, including running water and sewer into the development. This
  required the Company to replace and relocate direct buried underground cables
  for the 9L3 and 9L2 circuits along Central Street and Main Street to accommodate
  the water and sewer infrastructure. A manhole and duct system was installed to
  comply with the Company's latest underground construction standards. The total
  cost was approximately \$1.3 million.
- 10 Q. Is all of the capital investment described above included in rate base in this case
  11 used and useful in providing service to the Company's customers?
- 12 A. Yes. All of these projects included in rate base as of the end of calendar year 2018 are operational and providing service to the Company's customers.
- Q. Does the Company have any significant capital projects planned for the near future?
- 16 A. Yes, the Company will be undertaking several system capacity and infrastructure
  17 improvement projects through 2021. These projects are necessary to provide additional
  18 capacity in areas that have experienced load growth, and are expected to see load
  19 increases in the future. These projects will also provide for distribution system
  20 redundancy consistent with the Company's planning criteria, and allow for the phased

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retirement of substation assets that have exceeded their useful operating and economic lives.

## V. DESCRIPTION OF FUTURE PROJECTS

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- 4 Q. Please describe the significant future capital projects that the Company plans to undertake over the next few years, including the need for each project.
- A. The Company will undertake the following system capacity and reinforcement projects in the years 2019 through 2023. These projects are necessary to allow for the phased retirement of substation assets that have exceeded their useful operating and economic lives, as well as to provide additional capacity in specific areas that have experienced residential and commercial load growth over time. They will also resolve existing and forecasted violations of the Company's planning criteria.

## A. Golden Rock Substation Upgrade

The Salem area relies on the 23kV supply system emanating from the Golden Rock substation and the National Grid sub-transmission system in Massachusetts. The existing 23/13kV substations do not have the necessary capacity to supply the upcoming planned customer expansions in the area. Two of the substations, Salem Depot and Barron Avenue, were built in the mid-1950s and early 1960s, respectively, and have reached the end of their useful economic lives.

Under this project Granite State will install three new 13kV feeder positions including overhead and underground street construction in 2019 and 2020. As part of this project, National Grid will provide a second 115kV transmission line and a new 115/13kV

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transformer. This will provide distribution capacity to back up the Spicket River substation, which is currently supplied via a single 23kV supply line from National Grid in Massachusetts. The Company will also retire the Baron Avenue Substation as part of this project.

During Winter Storm Quinn in 2018, the Company saw significant outages in the area that is fed by the Spicket River substation. With this project, the Company will have the ability to reduce the load at risk at the Spicket River substation and restore additional customers through switching more quickly. The Golden Rock project will help reduce the Salem area feeder loading to comport with Granite State's planning criteria allowing for improved reliability and storm/contingency performance, and will mitigate issues with asset condition at the Baron Avenue substation by allowing for its retirement.

## **B.** Rockingham Substation

In the fall of 2020, Granite State will begin construction of the Rockingham substation, which is needed to serve increased load in the Salem area from Tuscan Village and other commercial developments in the area. The substation is also needed due to age and asset condition of the Barron Avenue and Salem Depot substations and, in connection with the upgrade to the Golden Rock substation, will replace those substations. The Barron Avenue and Salem Depot substations, and the existing supply system, lack the necessary capacity to supply upcoming and planned customer expansions in the area. The project includes installing a new metal-clad switchgear with a control house, two 55 MVA

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transformers, and eight 13 kV distribution feeders, and is expected to be in service in 2021.

#### C. Rockingham Supply Lines

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To provide the necessary firm capacity to the Rockingham substation, two parallel 115kV supply lines, two miles in length, with 23kV distribution under build, will be installed along the existing 23kV right-of-way. The Company has worked with National Grid to design a solution to feed Rockingham. The most cost effective solution was for Granite State to build the supply line because National Grid did not need the power and, had National Grid built the line, the Company would have paid the full cost. Along with paying for the full cost, the Company would not have been able to connect its 23 kV overhead lines to the structures because those structures would have been National Gridowned assets. The Company would have been required to install a manhole and duct system to provide power from the 23 kV line to its existing Olde Trolley, Barron Avenue, and Salem Avenue substations while the Rockingham substation was being built. The Company will avoid these costs by building the supply line itself.

# Q. What are the estimated costs for each project?

17 A. The estimated costs for each project are shown in Attachment JR/AS/HT-1. The
18 information shows the estimated capital expenditure in each year and the amount that is
19 expected to be used and useful at the end of each year.

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# VI. REQUEST FOR FUTURE STEP ADJUSTMENTS

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Q. Please describe the request for step adjustments for capital projects placed in
 service in years beyond 2019.

Granite State continues to invest in its infrastructure and is requesting a series of step adjustments to account for a return on additions to the Company's net plant as well as a return on capital additions resulting from the Company's REP-related activities. For capital projects placed in service during 2019, the Company's request for a step adjustment related to those projects is described in the joint testimony of Philip Greene and David Simek. For capital projects placed in service in years after 2019, the Company proposes to file documentation demonstrating the change in its net plant between January 1 and December 31 each year. The actual change would be compared to forecasted increases derived from its annual forecast. If the amount of the actual change is equal to or greater than the amount forecasted, the step increase will take effect on July 1 of each year, subject to prudency review. The amounts of the step increases would be associated with 80 percent of the non-REP changes in net plant. If the Company's net plant additions are less than the forecasted amount, then the total net utility plant balance will be compared to the forecasted amount for a given year. If the plant balance meets the forecasted amount, the step increase would take effect as scheduled and subject to a prudency review. For illustration, Attachment JR/AS/HT-2 provides a revenue requirement calculation showing that if the Company spends \$20 million in capital expenditures during calendar

year 2020, the step increase in rates that is presumed for July 1, 2021, is \$2,340,100.

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Under this proposal, if the change in Company's net utility plant between January 1 and December 31, 2020, is at least \$14.8 million (that is, if the increase in the Company's distribution plant for that period, after taking into account accumulated depreciation, is greater than or equal to \$14.8 million) and the plant additions following review by the Staff and OCA and approval of the Commission are found to be prudent, used and useful, and providing service to customers, then the Company will be permitted to increase its revenues by \$2,340,100, which represents the revenue requirement associated with 80 percent of that change in net plant. If the Company does not add \$14.8 million in net plant assets, the lower net amount of the change will be used in calculating the revenue requirement for the adjustment. Should the Company add more in assets than is forecast, it will not receive a corresponding increase to the step adjustment provided for in the agreement. Is this methodology similar to step adjustments provided to other New Hampshire Q. electric utilities in the past? A. Yes. Step increases involving a similar methodology have been approved in the past for Eversource (Docket No. DE 09-035) and Unitil (Docket Nos. DE 10-055 and DE 16-384). Given the similarity in the underlying non-growth capital investments by Granite State and those other utilities, the Company believes it would be appropriate and consistent to propose a step adjustment mechanism that has previously been approved by the

Commission and used by the other New Hampshire electric utilities.

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VII.	RELIABILITY	<b>ENHANCEN</b>	MENT PLAN
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- Q. Are there any other ratemaking methodologies in place that provide for prompt 2 commencement of recovery of certain capital investments? 3 4 A. Yes. In Docket No. DG 06-107, the Commission approved Granite State's Reliability Enhancement Program ("REP"). Under that program, recovery of the cost of capital 5 investments in specific projects that are made for the sole purpose of improving 6 7 reliability performance commences by May 1 of the following year, substantially reducing the regulatory lag that would otherwise occur if recovery did not commence 8 until completion of the next rate case. 9 Does Granite State currently have approval for a reliability enhancement program? 10 Q. A. Yes. The Company has been operating its REP that was originally approved in Docket 11 12 DG 06-107, with its continuation being approved by the Commission in Order No. 26,005 issued in Docket DE 16-383. The Company also has a vegetation management 13 14 program ("VMP"); testimony on that program is provided jointly by Heather Green and 15 Heather Tebbetts.
- 16 Q. The purpose of the REP is to maintain and improve Granite State's reliability
  17 performance as measured against the five-year average reliability indices. Has the
  18 Company met that performance level?
- 19 A. Yes. The REP and VMP have achieved positive trends in reliability performance.
- 20 Underscoring this trend, in CY 2018 the Company achieved a SAIFI of 0.737 against the
- five-year target of 1.195, and a SAIDI of 121.786 against the five-year target of 126.265

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minutes. It is worth noting that the Company has achieved both SAIDI and SAIFI targets since 2014 and, during that same time span, has reduced the SAIDI five year rolling average by 40 minutes and the SAIFI five year rolling average by 0.54. The current projection for CY 2019 indicates that we are tracking slightly above the five-year targets of 1.01 for SAIFI and 118 minutes for SAIDI, due primarily to storm events. This tracking is within the general year-to-year variability of weather patterns and non-excludable storms. The Company continues to believe that the REP and VMP are achieving their intended overall performance results, provide vehicles for significant program focus and collaboration with Commission Staff, have been instrumental in improving the reliability of the company, and, accordingly, we believe that the programs should continue going forward.

A.

#### Q. Is the Company seeking to change the elements of the previously approved REP?

It is not. The Company has spent approximately \$1.5 million annually on REP-related capital investments as approved in Docket No. DE 16-383 and will continue to spend that amount as a capital investment target. The capital plan continues to reflect annual funding for the reconductoring of approximately 3.5 miles of bare mainline conductor with spacer cable and tree wire, and the application of single phase reclosers, "Trip-Saver," and "Fuse-Saver" fusing in rural areas. These initiatives represent the optimum combination of reliability investments impacting a wide range of outage causes and duration impacts. Over a three- to five-year horizon, the Company believes that expanded distribution automation, SCADA applications, grid modernization initiatives,

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and URD cable replacement would also effectively yield reliability benefits as

opportunities for recloser and "Trip Saver" applications are exhausted.

As with the current program, the Company will submit its annual REP/VMP Plan to Staff in November of each year, describing its planned activities and budget, and will meet with Staff prior to its implementation to obtain feedback. Consistent with the current requirements of the program, each year on March 15 the Company will make a reconciliation filing with the Commission to (i) either recover or refund to customers the difference between the Company's actual O&M spending and the agreed upon base amount of O&M, and (ii) adjust distribution rates to recover the revenue requirement associated with reliability-related capital spending that was included in the program and is used and useful and providing service to customers.

## VIII. CONCLUSION

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- Q. Please summarize your testimony.
- Since the last general distribution rate proceeding, the Company has spent approximately 14 A. \$36 million on capital investments such as the Pelham substation upgrade, Charlestown 15 substation retirement, Michael Avenue substation expansion, and underground cable 16 replacements in Salem and Hanover. After taking into account \$3.7 million for the 17 Pelham Substation and getaway cable projects and REP projects of \$2.8 million 18 recovered through the annual REP reconciliation process, approximately \$29.5 million 19 has not been previously subject to cost recovery. This capital spending supports a 20 21 significant portion of the proposed distribution rate increase requested in this filing.

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The future projects of Rockingham and Golden Rock substations and the Rockingham

Supply line to provide the needed asset replacement and capacity for Tuscan Village and

other commercial developments in the Salem area, as identified in the Salem Area Study,

will form the basis for requests for cost recovery through future step adjustments to allow

the Company to more quickly recover costs associated with safe and reliable service,

reducing the pressure to file more frequent rate cases.

- 7 Q. Does this complete your testimony?
- 8 A. Yes, it does.

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## **Liberty Utilities Capital Spending Plan Salem Area Study**

	2019	<u>In</u>	<u>2020</u>	<u>In</u>	<u>2021</u>	<u>In</u>	2022	<u>In</u>	2023	<u>In</u>	<u>Total In</u>
<u>Project</u>	<u>Costs</u>	<u>Service</u>	<u>Service</u>								
Golden Rock Substation	\$ 2,000,000	\$ 2,000,000	\$ 650,000	\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000	\$ 350,000	\$ 3,000,000
Golden Rock D-Line	\$ 1,650,000	\$ 1,650,000	\$ 2,100,000	\$ 2,100,000	\$ -	\$ -	\$ -	\$ -	\$ 2,700,000	\$ 2,700,000	\$ 6,450,000
<b>Rockingham Substation</b>	\$ 200,000	\$ -	\$ 500,000		\$ 5,000,000	\$ 5,700,000	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ 6,200,000
Rockingham D-Line		\$ -	\$ 500,000		\$ 1,000,000	\$ 1,500,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 1,600,000
Rockingham T Line	\$ 200,000	\$ -	\$ 500,000	\$ -	\$ 6,000,000	\$ 6,700,000	\$ 6,000,000	\$ 6,000,000	\$ -	\$ -	\$ 12,700,000

# Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Illustrative Step Adjustment Calculation Computation of Revenue Requirement CY 2020

			CY		
			<u>2020</u>		
1	Total Investment		\$20,000,000		
2	Less REP		(\$1,500,000)		
3	Total		\$18,500,000		
4	80% of Non REP Capital		\$14,800,000		
5					
	Deferred Tax Calculation		2 750/		
7	Book Depreciation Rate		2.75%		
8	Federal Tax Depreciation Rate		3.75%		
9	FEDERAL Vintage Year Tax Depreciation:		¢555 000		
10	CY 2020 Spend		\$555,000		
11	Annual Tax Depreciation		\$555,000		
12	Cumulative Tax Depreciation		\$555,000		
13	STATE Vintage Vear Tay Depresiation:				
14 15	STATE Vintage Year Tax Depreciation:		¢EEE 000		
16	CY 2020 Spend Annual Tax Depreciation		\$555,000 \$555,000		
17	·				
18	Cumulative Tax Depreciation		\$555,000		
19	Book Depreciation		\$407,000		
20	Cumulative Book Depreciation		\$407,000		
21	Cultivative Book Depreciation		3407,000		
22	Book/Tax Timer (Federal)		\$148,000		
23	less: Deferred Tax Reserve (State)		\$11,396		
24	Net Book/Tax Timer (Federal)		\$136,604		
25	Effective Tax Rate (Federal)		21.00%		
26	Deferred Tax Reserve (Federal)		\$28,687		
27	Book/Tax Timer (State)		\$148,000		
28	Effective Tax Rate (State)		7.70%		
29	Deferred Tax Reserve (State)		\$11,396		
30	TOTAL Deferred Tax Reserve		\$40,083		
31	. C m. 2 Seren eu ran neserve		ψ .0,000		
32	Rate Base Calculation				
33	Plant In Service		\$14,800,000		
34	Accumulated Book Depreciation		(\$407,000)		
35	Deferred Tax Reserve		(\$40,083)		
36	Year End Rate Base		\$14,352,917		
37			<del>+</del>		
38	Revenue Requirement Calculation				
39	Year End Rate Base		\$14,352,917		
40	Pre-Tax ROR		10.23%		
41	Return and Taxes		\$1,468,206		
42	Book Depreciation		\$407,000		
43	Property Taxes	3.23%	\$464,894		
44	Annual Revenue Requirement		\$2,340,100		
45			, ,,		
46	Adjusted Annual Revenue Requirement		\$2,340,100		
47	,		. , ,		
48					
	Imputed Capital Structure (e)			Weighted	
50		Ratio	Rate	Rate	Pre Tax
51	Long Term Debt	45.00%		2.69%	2.69%
52	Common Equity	55.00%		5.50%	7.54%
53					
54		100.00%	_	8.19%	10.23%