

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Procedure for Adjusting Distribution Rates  
Docket No. DE 16-383 2019 Compliance  
Rates Effective May 1, 2019**

(1)	Increase in Revenue Requirement - Section II.B of the Settlement Agreement	\$185,044
(2)	Annual Base Distribution Revenues	\$42,391,045
(3)	Percentage of Adjustment to Distribution Rates	0.44%

**Notes**

- (1) Annual Revenue Requirement related to the 2017 Pelham Substation Capital Investment
- (2) Test year billing determinates multiplied by current distribution rates
- (3) Line (1) ÷ Line (2)

Page 1 of 1  
**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities**  
**Step Adjustment - 2017 Pelham Substation Capital Investment**  
**Docket No. DE 16-383 Compliance**

Line	Description	Substation	OH Conductors	UG Conductors	Transformers	Meters	Structures	Fleet	Other	IT	Total
<u>FERC Account</u>		362	364	366	368	370	390	392	394 et al	303	
1	Deferred Tax Calculation										
2	Capital Spending	\$1,250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250,000
3											
4	Tax method	MACRS20	MACRS20	MACRS20	MACRS20	MACRS20	MACRS20	MACRS5	MACRS20	MACRS5	
5	Tax Depr. Rate, 20-year MACRS	3.75%	3.75%	3.75%	3.75%	3.75%	3.75%	20.00%	3.75%	20.00%	
6											
7	Annual Tax Depreciation- Year 1	\$46,875	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46,875
8	Bonus Year 1	\$360,938	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$360,938
9	Book Depreciation Rate- Year 1	2.80%	3.25%	2.00%	3.51%	5.23%	1.68%	4.33%	4.17%	20.00%	
10	Annual Book Depreciation	\$35,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35,000
11	Tax over (under) Book- Fed	\$372,813	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$372,813
12	Tax over (under) Book- State	\$11,875	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,875
13	<b>Deferred Tax Balance</b>	<b>\$79,205</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$79,205</b>
14											
15	<u>Rate Base Calculation</u>										
16	Plant in Service	\$1,250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250,000
17	Accumulated Depreciation	(\$35,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$35,000)
18	Deferred Tax Balance	(\$79,205)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$79,205)
19	<b>Rate Base</b>	<b>\$1,135,795</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,135,795</b>
20											
21	<u>Revenue Requirement Calculation</u>										
22	Return on Rate Base @ 9.58%	\$108,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$108,774
23	Depreciation Expense	\$35,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35,000
24	Property Tax, Insurance @ 2.22%	\$27,750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27,750
25	Prior Year Debt Correction <sup>1</sup>	\$13,520	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,520
26	<b>Annual Revenue Requirement</b>	<b>\$185,044</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$185,044</b>
27		<b>\$185,044</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$185,044</b>
28											
29	Rate of Return Calculation	Portion				After-Tax Cost	WACC	Pre-Tax WACC		Deferred Tax Calculation	
30	Equity	50.0%				9.40%	4.70%	6.59%		Bonus Depr Year 1	30.00%
31	Debt	50.0%				5.97%	2.99%	2.99%		Fed Tax Rate 2019	21.00%
32		100.0%					7.69%	9.58%		State Tax Rate 2019	7.70%
33										Deferred Tax Rate	79,205
34	Property Taxes and Insurance as % of Plant Cost							2.22%			

[1] In the May 10, 2018, filing we used a debt rate of 4.57%, which calculated an approved revenue requirement of \$289,348. Line 25 is the difference between the filed \$289,348 and calculated revenue requirement of \$302,868 using the correct debt rate of 5.97%.

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
DE 16-383 Compliance - Class D Rate Design  
Rates Effective May 1, 2019**

<u>Rate Class</u>	<u>Distribution Rate Component</u>	(a) May 1, 2019 Base Distribution Charges	(b) DE 16-383 Billing Determinants	(c) Annual Revenue
<u>May 1, 2019 proposed rates @ old rate design</u>				
D	Customer Charge	\$14.02	419,191	\$5,877,058
	1st 250 kWh	\$0.04299	94,868,638	\$4,078,403
	Excess 250 kWh	\$0.04883	175,609,256	<u>\$8,575,000</u>
				\$18,530,461
<u>May 1, 2019 rates with flat energy charge</u>				
D	Customer Charge	\$14.02	419,191	\$5,877,058
	1st 250 kWh	\$0.04678	94,868,638	\$4,438,112
	Excess 250 kWh	\$0.04678	175,609,256	<u>\$8,215,291</u>
				\$18,530,461

(a) Base distribution rates in effect May 1, 2019

(b) DE 16-383 Billing Determinants

(c) Column (a) x Column (b)

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Calculation of Percentage Adjustment to Distribution Rates  
Rates Effective May 1, 2019**

<u>Rate Class</u>	<u>Distribution Rate Component</u>	June 1, 2018 Base Distribution <u>Charges</u> (a)	Distribution % Increase/ % (Decrease) (b)	May 1, 2019 Base Distribution <u>Charges</u> (c)
D	Customer Charge	\$14.02	0.44%	\$14.08
	All kWh	\$0.04678	0.44%	\$0.04699
	16 Hour Off Peak kWh	\$0.04039	0.44%	\$0.04057
	Farm kWh	\$0.04416	0.44%	\$0.04435
	D-6 kWh	\$0.04114	0.44%	\$0.04132
D-10	Customer Charge	\$14.02	0.44%	\$14.08
	On Peak kWh	\$0.10054	0.44%	\$0.10098
	Off Peak kWh	\$0.00139	0.44%	\$0.00140
G-1	Customer Charge	\$365.24	0.44%	\$366.85
	Demand Charge	\$7.78	0.44%	\$7.81
	On Peak kWh	\$0.00501	0.44%	\$0.00503
	Off Peak kWh	\$0.00150	0.44%	\$0.00151
	Credit for High Voltage Delivery > 2.4 kv	(\$0.42)	0.44%	(\$0.42)
G-2	Customer Charge	\$60.90	0.44%	\$61.17
	Demand Charge	\$7.83	0.44%	\$7.86
	All kWh	\$0.00196	0.44%	\$0.00197
	Credit for High Voltage Delivery > 2.4 kv	(\$0.42)	0.44%	(\$0.42)
G-3	Customer Charge	\$14.02	0.44%	\$14.08
	All kWh	\$0.04442	0.44%	\$0.04462
	Minimum Charge > 25 kVA	\$2.48	0.44%	\$2.49
M	Luminaire Charge			
	<u>Description</u>			
	HPS 4,000	\$7.36	0.44%	\$7.39
	HPS 9,600	\$8.93	0.44%	\$8.97
	HPS 27,500	\$15.70	0.44%	\$15.77
	HPS 50,000	\$20.45	0.44%	\$20.54
	HPS 9,600 (Post Top)	\$10.29	0.44%	\$10.34
	HPS 27,500 Flood	\$15.83	0.44%	\$15.90
	HPS 50,000 Flood	\$21.86	0.44%	\$21.96
	Incandescent 1,000	\$9.84	0.44%	\$9.88
	Mercury Vapor 4,000	\$7.11	0.44%	\$7.14
	Mercury Vapor 8,000	\$8.66	0.44%	\$8.70
	Mercury Vapor 22,000	\$16.38	0.44%	\$16.45
	Mercury Vapor 63,000	\$31.08	0.44%	\$31.22
	Mercury Vapor 22,000 Flood	\$18.11	0.44%	\$18.19
	Mercury Vapor 63,000 Flood	\$31.28	0.44%	\$31.42

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Docket No. DE 16-383 Step Adjustment  
Attachment D  
Page 2 of 2

<u>Rate Class</u>	<u>Distribution Rate Component</u>	June 1, 2018 Base Distribution <u>Charges</u> (a)	Distribution % Increase/ % (Decrease) (b)	May 1, 2019 Base Distribution <u>Charges</u> (c)
	<u>LED Fixtures</u>			
	30 Watt Pole Top	\$10.87	0.44%	\$10.92
	50 Watt Pole Top	\$11.32	0.44%	\$11.37
	130 Watt Pole Top	\$13.08	0.44%	\$13.14
	190 Watt Pole Top	\$17.22	0.44%	\$17.30
	50 Watt URD	\$12.44	0.44%	\$12.49
	90 Watt Flood	\$12.54	0.44%	\$12.60
	130 Watt Flood	\$13.73	0.44%	\$13.79
	50 Watt Barn	\$4.79	0.44%	\$4.81
	<u>Pole and Accessory Charge</u>			
	<u>Description</u>			
	Pole -Wood	\$8.68	0.44%	\$8.72
	Fiberglass - Direct Embedded	\$8.99	0.44%	\$9.03
	Fiberglass w/Foundation <25 ft	\$15.26	0.44%	\$15.33
	Fiberglass w/Foundation >=25 ft	\$25.49	0.44%	\$25.60
	Metal Poles - Direct Embedded	\$18.18	0.44%	\$18.26
	Metal Poles with Foundation	\$21.93	0.44%	\$22.03
	All kWh	\$0.00000	0.44%	\$0.00000
T	Customer Charge	\$14.02	0.44%	\$14.08
	All kWh	\$0.03865	0.44%	\$0.03882
V	Minimum Charge	\$14.02	0.44%	\$14.08
	All kWh	\$0.04567	0.44%	\$0.04587

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities**  
**Residential Bill Impact**  
**Rates Effective May 1, 2019**

Usage: 650 kWh

	June 1, 2018 Rates	May 1, 2019 Rates	June 1, 2018 Bill	May 1, 2019 Bill
Customer Charge	\$14.02	\$14.08	\$14.02	\$14.08
Distribution Charge				
All kWh	\$0.04678	\$0.04699	\$11.70	\$11.75
Storm Recovery Adjustment	\$0.00000	\$0.00000	\$0.00	\$0.00
Transmission Charge	\$0.03460	\$0.03460	\$22.49	\$22.49
Stranded Cost Charge	(\$0.00095)	(\$0.00095)	(\$0.62)	(\$0.62)
System Benefits Charge	\$0.00535	\$0.00535	\$3.48	\$3.48
Electricity Consumption Tax	\$0.00000	\$0.00000	<u>\$0.00</u>	<u>\$0.00</u>
Subtotal Retail Delivery Services			\$51.07	\$51.18
Default Service Charge	\$0.08299	\$0.08299	<u>\$53.94</u>	<u>\$53.94</u>
Total Bill			\$105.01	\$105.12

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<b>\$ increase in 650 kWh Total Residential Bill</b>	<b>\$0.11</b>
<b>% increase in 650 kWh Total Residential Bill</b>	<b>0.11%</b>

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2017 and 2018 Step Projects

(a)	(b)	(c)	(d)	(e)	(f)	(g)	
Project_Description	FY2017 Capital Budget from Orig. Testimony Table 3	2017 Planning Criteria Investment Exclusion	Plant In Service (less Planning Criteria) as of 12/31/17	FY2018 Capital Budget from Orig. Testimony Table 3	2018 Planning Criteria Investment Exclusion	Plant In Service (less Planning Criteria) as of 12/31/18	Notes
Pelham Sub-Add 2nd Xfmr and Fdr Pos	\$2,000,000	\$0	\$2,000,000	\$1,600,000	\$350,000	\$1,250,000	2018 reflects the exclusion of the 14L5 planning criteria feeder position from the substation spend
Pelham-New 14L4 Fdr	\$400,000	\$0	\$400,000	\$0	\$0	\$0	
Pelham-New 14L5 Fdr (Planning Criteria Proj.)	\$450,000	\$450,000	\$0	\$350,000	\$350,000	\$0	
Charlestown DSub	\$25,000		\$0	\$50,000		\$0	
Charlestown 32 Dline	\$500,000	\$0	\$0	\$1,300,000	\$1,415,000	\$385,000	2018 reflects the exclusion of the 40L3 feeder planning criteria incremental spend and the inclusion of 40L3 construction started in 2017 and placed into service in 2018.
<b>Step Totals</b>	<b>\$3,375,000</b>	<b>\$450,000</b>	<b>\$2,400,000</b>	<b>\$3,300,000</b>	<b>\$2,115,000</b>	<b>\$1,635,000</b>	



Stephen R. Hall  
Director, Rates & Regulatory Affairs  
O: 603-216-3523  
E: [Stephen.Hall@libertyutilities.com](mailto:Stephen.Hall@libertyutilities.com)

February 26, 2016

**Via ERF and US Mail**

Debra A. Howland  
Executive Director  
New Hampshire Public Utilities Commission  
21 S. Fruit Street, Suite 10  
Concord, NH 03301-2429

**Re: Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities  
E-22 Report of Proposed Distribution Expenditures for Additions, Extensions and Capital  
Improvements to Fixed Capital and Operation and Maintenance (O&M) Expenses**

Dear Ms. Howland:

Pursuant to Puc 308.07, enclosed for filing please find one original and one duplicate copy of Liberty Utilities' Form E-22 for capital costs associated with various projects in New Hampshire. Please note this report has been filed via the Commission's Electronic Report Filing system.

Thank you for your assistance with this matter. Please do not hesitate to call if you have any questions.

Sincerely,

Stephen R. Hall

Enclosure

cc: Randy Knepper  
Carolyn Stiles  
Kerri-Lyn Gilpatric

1723



## NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

## REPORT OF PROPOSED DISTRIBUTION EXPENDITURES FOR ADDITIONS, EXTENSIONS AND CAPITAL IMPROVEMENTS TO FIXED CAPITAL AND OPERATION AND MAINTENANCE (O&amp;M) EXPENSES

(In compliance with Puc 308.07)

Item No.	LOCATION	DESCRIPTION	EST. CONSTRUCTION DATE		ESTIMATED COST
			START	FINISH	
8830-C13968	Various	PS&I Activity - New Hampshire	1/1/2016	12/31/2016	\$10,000
8830-C14646	Various	IE-NN UG Structures and Equipment	1/1/2016	12/31/2016	\$5,000
8830-C18603	Pelham	Bare Conductor Replacement Program	3/1/2016	10/31/2016	\$1,200,000
8830-C18620	Charlestown	Charlestown 32 Dline	1/1/2016	12/31/2016	\$5,000
8830-C18630	Charlestown	Charlestown DSub	1/1/2016	12/31/2016	\$15,000
8830-C18750	Various	Security Conversion GSE	3/1/2016	9/30/2016	\$25,000
8830-C20473	Various	IE - NN Recloser Installations	1/1/2016	9/30/2016	\$250,000
8830-C21093	Various	IE-NN Dist Transformer upgrades	1/1/2016	9/30/2016	\$25,000
8830-C21595	Various	01663 GS Storm Program Proj	1/1/2016	12/31/2016	\$50,000
8830-C22214	Various	NN ERR/Pockets of Poor Perf	1/1/2016	12/31/2016	\$50,000
8830-C26061	Various	NH ARP Relay & related	1/1/2016	12/31/2016	\$5,000
8830-C26263	Various	NN D-Line Work Found by Insp.	1/1/2016	12/31/2016	\$50,000
8830-C31402	Various	IE-NN URD Cable Replacement	1/1/2016	11/30/2016	\$100,000
8830-C33766	Hanover	NEN-NH Electric Fence FY10	4/1/2016	6/30/2016	\$25,000
8830-C36423	Lebanon	Mt Support Sub- New LP Fdr Pos	1/1/2016	12/31/2016	\$3,700,000
8830-C36424	Lebanon/Hanover	Mt Support-New 16L3 Feeder	1/1/2016	12/31/2016	\$1,550,000
8830-C36425	Lebanon/Hanover	Mt Support-New 16L5 Feeder	1/1/2016	12/31/2016	\$100,000
8830-C36427	Various	Feeder Getaway Cable Replacement	1/1/2016	12/31/2016	\$100,000
8830-C36430	Pelham	Pelham Sub-Add 2nd Xfmr and Fdr Pos	7/1/2016	12/31/2016	\$600,000
8830-C36431	Pelham	Pelham-New 14L4 Fdr	7/1/2016	12/31/2016	\$350,000
8830-C36433	Various	Distribution Feeder Power Factor Correction	1/1/2016	12/31/2016	\$25,000
8830-C42901	Various	Underperforming Feeder Program	3/1/2016	9/30/2016	\$50,000
8830-C36435	Various	Lebanon Area Low Voltage Mitigation	3/1/2016	9/30/2016	\$50,000
8830-C42851	Pelham	Enhanced Bare Conductor Replacement	6/1/2016	12/1/2016	\$500,000
8830-C42852	Pelham	Pelham-New 14L5 Fdr	8/1/2016	11/30/2016	\$150,000
8830-CD0291	Salem	Sky View URD - Salem, NH	1/1/2016	12/31/2016	\$10,000
8830-CN4104	Various	01659 Granite St Meter Purchases	1/1/2016	12/31/2016	\$250,000
8830-CN4120	Various	01660 Granite St Transformer Purchases	1/1/2016	12/31/2016	\$350,000
8830-CNN002	Various	01737 GSE-Dist-Subs Blanket	1/1/2016	12/31/2016	\$50,000
8830-CNN004	Various	GSE-Dist-Meter Blanket	1/1/2016	12/31/2016	\$20,000
8830-CNN006	Various	GSE-Dist-Genl Equip Blanket	1/1/2016	12/31/2016	\$50,000
8830-CNN007	Various	GSE-Dist-Water Heater Blanket	1/1/2016	12/31/2016	\$121,000
8830-CNN009	Various	GSE-Dist-Land/Land Rights Blanket	1/1/2016	12/31/2016	\$10,000
8830-CNN010	Various	GSE-Dist-New Bus-Resid Blanket	1/1/2016	12/31/2016	\$1,050,000
8830-CNN011	Various	GSE-Dist-New Bus-Comm Blanket	1/1/2016	12/31/2016	\$1,200,000
8830-CNN012	Various	GSE-Dist-St Light Blanket	1/1/2016	12/31/2016	\$225,000
8830-CNN013	Various	GSE-Dist-Public Require Blanket	1/1/2016	12/31/2016	\$400,000
8830-CNN014	Various	Dist-Damage&Failure Blanket	1/1/2016	12/31/2016	\$800,000
8830-CNN015	Various	GSE-Dist-Reliability Blanket	1/1/2016	12/31/2016	\$400,000
8830-CNN016	Various	GSE-Dist-Load Relief Blanket	1/1/2016	12/31/2016	\$75,000
8830-CNN017	Various	GSE-Dist-Asset Replace Blanket	1/1/2016	12/31/2016	\$400,000
8830-CNN020	Various	Dist-Transf/Capac Install Blanket	1/1/2016	12/31/2016	\$10,000
8830-CNN021	Various	GSE-Dist-Telecomm Blanket	1/1/2016	12/31/2016	\$10,000
8830-CNN022	Various	GSE-Dist-3rd Party Attach Blanket	1/1/2016	12/31/2016	\$110,000
8830-CNN023	Various	GSE Distributed Generation Blanket	1/1/2016	12/31/2016	\$75,000
8830-CNN025	Various	IT Systems & Equipment Blanket	1/1/2016	12/31/2016	\$25,000
8830-CNN026	Various	Misc Capital Imprvmnts GSE Facilities Blanket	1/1/2016	12/31/2016	\$100,000
8830-CNN027	Various	Transportation Fleet & Equip. Blanket	1/1/2016	12/31/2016	\$250,000
8830-CRSRVARS_017	Various	Reserve for Sub Asset Repl Specifics	1/1/2016	12/31/2016	\$25,000
8830-CRSRVDF_014	Various	Reserve for Damage/Failure Unidentified Specifics &	1/1/2016	12/31/2016	\$75,000
8830-CRSRVLR_016	Various	Reserve for Load Relief Unidentified Specifics	1/1/2016	12/31/2016	\$25,000
8830-CRSRVNBC_010	Various	Reserve for New Business Residential	1/1/2016	12/31/2016	\$50,000
8830-CRSRVNBC_011	Various	Reserve for New Business Commercial Unident specific & SC	1/1/2016	12/31/2016	\$100,000
8830-CRSRVPR_013	Various	Reserve for Public Requirements Unidentified Specifics	1/1/2016	12/31/2016	\$50,000
8830-CRSRVRL_015	Various	Reserve for Reliability Unidentified Specifics	1/1/2016	12/31/2016	\$100,000

\$15,406,000

Supervisor's Name / Title: Tisha Sanderson, Director Capital Budgets / Planning

(please print)

Supervisor's Signature: Tisha SandersonDate Submitted: 2/26/16

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

REPORT OF PROPOSED DISTRIBUTION EXPENDITURES FOR ADDITIONS, EXTENSIONS AND CAPITAL IMPROVEMENTS TO FIXED CAPITAL AND OPERATION AND MAINTENANCE (O&M) EXPENSES

(In compliance with Puc 308.07)

Item No.	LOCATION	DESCRIPTION	EST. CONSTRUCTION DATE		ESTIMATED COST
			START	FINISH	
5630	Various	Overhead Lines	1/1/2016	12/31/2016	\$ 301,074
5660	Various	Misc Transmission Expenses	1/1/2016	12/31/2016	\$ 2,538
5701	Various	Trans Maint	1/1/2016	12/31/2016	\$ 5,801
5800	Various	Operation Supervision & Engineering	1/1/2016	12/31/2016	\$ 1,612,190
5810	Various	Load dispatching	1/1/2016	12/31/2016	\$ 881,478
5820	Various	Station expenses	1/1/2016	12/31/2016	\$ 115,433
5830	Various	Overhead line expenses	1/1/2016	12/31/2016	\$ 906,377
5840	Various	Underground line expenses	1/1/2016	12/31/2016	\$ 70,794
5850	Various	Street lighting and signal system expenses	1/1/2016	12/31/2016	\$ 27,383
5860	Various	Meter expenses	1/1/2016	12/31/2016	\$ 370,185
5870	Various	Customer installations expenses	1/1/2016	12/31/2016	\$ 2,080
5880	Various	Miscellaneous distribution expenses	1/1/2016	12/31/2016	\$ 654,881
5900	Various	Maintenance supervision and engineering	1/1/2016	12/31/2016	\$ 91,533
5910	Various	Maintenance of structures	1/1/2016	12/31/2016	\$ 676
5920	Various	Maintenance of station equipment	1/1/2016	12/31/2016	\$ 263,616
5932	Various	Maint of overhead lines	1/1/2016	12/31/2016	\$ 2,103,309
5940	Various	Maintenance of underground lines	1/1/2016	12/31/2016	\$ 1,556
5950	Various	Maintenance of line transformers	1/1/2016	12/31/2016	\$ 23,494
5960	Various	Maintenance of street lighting and signal systems	1/1/2016	12/31/2016	\$ 40,125
5970	Various	Maintenance of meters	1/1/2016	12/31/2016	\$ 196,552
5980	Various	Maintenance of miscellaneous distribution plant	1/1/2016	12/31/2016	\$ 233,251

Supervisor's Name / Title: Tisha Sanderson, Director, Capital Budget \$ 7,904,326  
(please print)

Supervisor's Signature: Tisha Sanderson Date Submitted: 2/26/16



Stephen R. Hall  
Director, Rates & Regulatory Affairs  
O: 603-216-3523  
E: [Stephen.Hall@libertyutilities.com](mailto:Stephen.Hall@libertyutilities.com)

March 2, 2017

**Via ERF and US Mail**

Debra A. Howland  
Executive Director  
New Hampshire Public Utilities Commission  
21 S. Fruit Street, Suite 10  
Concord, NH 03301-2429

**Re: Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities  
E-22 Report of Proposed Distribution Expenditures for Additions, Extensions and Capital  
Improvements to Fixed Capital and Operation and Maintenance (O&M) Expenses**

Dear Ms. Howland:

Pursuant to Puc 308.07, enclosed for filing please find one original and one duplicate copy of Liberty Utilities' Form E-22 for capital costs associated with various projects in New Hampshire. Please note this report has been filed via the Commission's Electronic Report Filing system.

Thank you for your assistance with this matter. Please do not hesitate to call if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Stephen R. Hall". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Stephen R. Hall

Enclosure

cc: Randy Knepper  
Carolyn Stiles  
Kerri-Lyn Gilpatric

1723



## NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

## REPORT OF PROPOSED DISTRIBUTION EXPENDITURES FOR ADDITIONS, EXTENSIONS AND CAPITAL IMPROVEMENTS TO FIXED CAPITAL AND OPERATION AND MAINTENANCE (O&amp;M) EXPENSES

(In compliance with Puc 308.07)

Item No.	LOCATION	DESCRIPTION	EST. CONSTRUCTION DATE		ESTIMATED COST
			START	FINISH	
8830-1701	Various	GS Storm Program Proj	1/1/2017	12/31/2017	\$50,000
8830-1702	Various	NN D-Line Work Found by Insp.	1/1/2017	12/31/2017	\$25,000
8830-1703	Various	Granite St Meter Purchases	1/1/2017	12/31/2017	\$195,000
8830-1704	Various	Granite St Transformer Purchases	1/1/2017	12/31/2017	\$390,000
8830-1705	Various	GSE-Dist-Subs Blanket	1/1/2017	12/31/2017	\$10,000
8830-1706	Various	GSE-Dist-Meter Blanket	1/1/2017	12/31/2017	\$15,000
8830-1707	Various	GSE-Dist-Genl Equip Blanket	1/1/2017	12/31/2017	\$40,000
8830-1708	Various	GSE-Dist-Water Heater Blanket	1/1/2017	12/31/2017	\$75,000
8830-1709	Various	GSE-Dist-Land/Land Rights Blanket	1/1/2017	12/31/2017	\$2,575
8830-1710	Various	GSE-Dist-St Light Blanket	1/1/2017	12/31/2017	\$250,000
8830-1711	Various	GSE-Dist-Public Require Blanket	1/1/2017	12/31/2017	\$387,000
8830-1712	Various	Dist-Damage&Failure Blanket	1/1/2017	12/31/2017	\$800,000
8830-1713	Various	GSE-Dist-Asset Replace Blanket	1/1/2017	12/31/2017	\$400,000
8830-1714	Various	GSE-Dist-3rd Party Attach Blanket	1/1/2017	12/31/2017	\$125,000
8830-1715	Various	PS&I Activity - New Hampshire	1/1/2017	12/31/2017	\$5,000
8830-1716	Various	NH ARP Batts/Chargers Repl Prog	1/1/2017	12/31/2017	\$25,000
8830-1717	Various	NH ARP Relay & related	1/1/2017	12/31/2017	\$10,000
8830-1718	Various	Reserve for Sub Asset Repl Specifics	1/1/2017	12/31/2017	\$24,996
8830-1719	Various	IE-NN Dist Transformer upgrades	1/1/2017	12/31/2017	\$9,996
8830-1720	Various	Security Conversion GSE	1/1/2017	12/31/2017	\$25,000
8830-1721	Various	GSE-Dist-Reliability Blanket	1/1/2017	12/31/2017	\$500,000
8830-1722	Various	GSE-Dist-Load Relief Blanket	1/1/2017	12/31/2017	\$25,000
8830-1723	Various	GSE Distributed Generation Blanket	1/1/2017	12/31/2017	\$75,000
8830-1724	Various	Misc Capital Imprvmnts GSE Facilities Blanket	1/1/2017	12/31/2017	\$50,000
8830-1725	Various	IT Systems & Equipment Blanket	1/1/2017	12/31/2017	\$50,000
8830-1726	Various	Transportation Fleet & Equip. Blanket	1/1/2017	12/31/2017	\$250,000
8830-1727	Various	IT Systems Allocations - Corporate	1/1/2017	12/31/2017	\$250,000
8830-1728	Salem	Misc Capital Imprvmnts GSE Facilities Salem	1/1/2017	12/31/2017	\$39,996
8830-1729	Lebanon	Misc Capital Imprvmnts GSE Facilities Lebanon	1/1/2017	12/31/2017	\$84,996
8830-1730	Londonderry	Misc Capital Imprvmnts GSE Facilities Londonderry	1/1/2017	12/31/2017	\$25,000
8830-1731	Charlestown	Misc Capital Imprvmnts GSE Facilities Charlestown	1/1/2017	12/31/2017	\$15,000
8830-1732	Various	ERP Foundation Year	1/1/2017	12/31/2017	\$291,361
8830-1733	Various	EAM Foundation Year	1/1/2017	12/31/2017	\$291,361
8830-1734	Various	GIS & OMS Electric Upgrade	1/1/2017	12/31/2017	\$322,928
8830-1735	Various	GIS - One Graphic Card	1/1/2017	12/31/2017	\$8,992
8830-1736	Various	NHE Mobiletech Roll Out (Lineworks)	1/1/2017	12/31/2017	\$50,000
8830-1737	Various	GSE-Dist-New Bus-Resid Blanket	1/1/2017	12/31/2017	\$1,000,000
8830-1738	Various	GSE-Dist-New Bus-Comm Blanket	1/1/2017	12/31/2017	\$1,200,000
8830-1739	Londonderry	Supplemental AC for Londonderry (Dispatch/Training Rms)	1/1/2017	12/31/2017	\$9,000
8830-C18603	Various	Bare Conductor Replacement Program	1/1/2017	12/31/2017	\$1,300,000
8830-C18620	Charlestown	Charlestown 32 Dline	1/1/2017	12/31/2017	\$316,992
8830-C18630	Charlestown	Charlestown Dsub	1/1/2017	12/31/2017	\$525,000
8830-C20473	Various	IE - NN Recloser Installations	1/1/2017	12/31/2017	\$200,000
8830-C22214	Various	NN ERR/Pockets of Poor Perf	1/1/2017	12/31/2017	\$75,000
8830-C31402	Various	IE-NN URD Cable Replacement	1/1/2017	12/31/2017	\$100,000
8830-C36423	Lebanon/Hanover	Mt Support Sub- New LP Fdr Pos	1/1/2017	12/31/2017	\$300,000
8830-C36424	Lebanon/Hanover	Mt Support-New 16L3 Feeder	1/1/2017	12/31/2017	\$50,000
8830-C36425	Lebanon/Hanover	Mt Support-New 16L5 Feeder	1/1/2017	12/31/2017	\$50,000
8830-C36430	Pelham	Pelham Sub-Add 2nd Xfmr and Fdr Pos	1/1/2017	12/31/2017	\$3,600,000
8830-C36431	Pelham	Pelham-New 14L4 Fdr	1/1/2017	12/31/2017	\$1,000,000
8830-C36433	Various	Distribution Feeder Power Factor Correction	1/1/2017	12/31/2017	\$25,000
8830-C36435	Lebanon	Lebanon Area Low Voltage / Overload Mitigation	1/1/2017	12/31/2017	\$14,454
8830-C42851	Various	Enhanced Bare Conductor Replacement	1/1/2017	12/31/2017	\$500,000
8830-C42901	Various	Underperforming Feeder Program	1/1/2017	12/31/2017	\$150,000
8830-C42910	Various	Cogsdale Modification - Crystall Report Bill Template Elec	1/1/2017	12/31/2017	\$3,381
8830-C42912	Various	Install 9L2-9L3 Feeder Tie	1/1/2017	12/31/2017	\$25,000
8830-C42926	Various	18L3 Fairmont Rd. Reconductoring	1/1/2017	12/31/2017	\$73,038
8830-C42930	Salem	Install Service to Tuscan Village Salem	1/1/2017	12/31/2017	\$200,000
8830-C42934	Various	Air Break Switch Upgrade	1/1/2017	12/31/2017	\$112,000
8830-OTH-008	Salem	Salem Security Cameras	1/1/2017	12/31/2017	\$51,150
8830-OTH-111	Various	Install Customer Drop Boxes	1/1/2017	12/31/2017	\$19,981

\$16,094,197

Supervisor's Name / Title: Tisha Sanderson, Director, Finance  
(please print)Supervisor's Signature: Tisha O. SandersonDate Submitted: 2/28/2017

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

REPORT OF PROPOSED DISTRIBUTION EXPENDITURES FOR ADDITIONS, EXTENSIONS AND CAPITAL IMPROVEMENTS TO FIXED CAPITAL AND OPERATION AND MAINTENANCE (O&M) EXPENSES

(In compliance with Puc 308.07)

Item No.	LOCATION	DESCRIPTION	EST. CONSTRUCTION DATE		ESTIMATED COST
			START	FINISH	
5620	Various	Stations expenses	1/1/2017	12/31/2017	\$ 925
5630	Various	Overhead Lines	1/1/2017	12/31/2017	\$ 925
5701	Various	Trans Maint	1/1/2017	12/31/2017	\$ 490
5800	Various	Operation Supervision & Engineering	1/1/2017	12/31/2017	\$ 2,606,393
5810	Various	Load dispatching	1/1/2017	12/31/2017	\$ 318,945
5820	Various	Station expenses	1/1/2017	12/31/2017	\$ 188,875
5830	Various	Overhead line expenses	1/1/2017	12/31/2017	\$ 513,763
5840	Various	Underground line expenses	1/1/2017	12/31/2017	\$ 91,643
5850	Various	Street lighting and signal system expenses	1/1/2017	12/31/2017	\$ 20,941
5860	Various	Meter expenses	1/1/2017	12/31/2017	\$ 134,213
5870	Various	Customer installations expenses	1/1/2017	12/31/2017	\$ 4,301
5880	Various	Miscellaneous distribution expenses	1/1/2017	12/31/2017	\$ 625,028
5900	Various	Maintenance supervision and engineering	1/1/2017	12/31/2017	\$ 440
5910	Various	Maintenance of structures	1/1/2017	12/31/2017	\$ 2,450
5920	Various	Maintenance of station equipment	1/1/2017	12/31/2017	\$ 148,466
5930	Various	Maintenance of overhead lines	1/1/2017	12/31/2017	\$ 440,417
5931	Various	Maint of overhead lines-Trouble	1/1/2017	12/31/2017	\$ 5,000
5932	Various	Maint of overhead lines	1/1/2017	12/31/2017	\$ 1,660,812
5940	Various	Maintenance of underground lines	1/1/2017	12/31/2017	\$ 2,181
5950	Various	Maintenance of line transformers	1/1/2017	12/31/2017	\$ 9,161
5960	Various	Maintenance of street lighting and signal systems	1/1/2017	12/31/2017	\$ 30,518
5970	Various	Maintenance of meters	1/1/2017	12/31/2017	\$ 189,471
5980	Various	Maintenance of miscellaneous distribution plant	1/1/2017	12/31/2017	\$ 170,243
					\$ 7,165,601

Supervisor's Name / Title: Tisha Sanderson, Director, Finance  
(please print)

Supervisor's Signature: Tisha O Sanderson Date Submitted: 2/28/2017

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