



Steven E. Mullen
Director, Rates & Regulatory Affairs
O: 603-216-3516
E: Steven.Mullen@libertyutilities.com

March 28, 2019

Via ERF and US Mail

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

**Re: DG 06-107; Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Annual Storm Fund Report – Calendar Year 2018**

Dear Ms. Howland:

On behalf of Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities, and in compliance with the Settlement Agreement in Docket No. DG 06-107, as subsequently amended by the Settlement Agreement in Docket No. DE 13-063, enclosed for filing please find Liberty Utilities' annual Storm Fund report. Please note this report has been filed via the Commission's Electronic Report Filing system.

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

Sincerely,

A handwritten signature in black ink that reads "Steven E. Mullen".

Steven E. Mullen

Enclosure

Liberty Utilities (Granite State Electric)
Corp. d/b/a Liberty Utilities

Annual Storm Fund
Report for Calendar Year 2018

March 28, 2019

Submitted by:



THIS PAGE INTENTIONALLY LEFT BLANK

**Liberty Utilities (Granite State Electric) Corp.
Annual Storm Fund Report
Calendar Year 2018**

Introduction

Liberty Utilities (Granite State Electric) Corp. ("Liberty Utilities" or the "Company") is submitting its Annual Storm Fund Recovery Report for 2018, in compliance with the Settlement Agreement in Docket No. DG 06-107, as subsequently amended by the Settlement Agreement in Docket No. DE 13-063, collectively "the Settlement Agreements." Consistent with the Settlement Agreements, this report: (1) describes the three Qualifying Storm Events and three Prestaging Weather Events experienced in 2018; (2) summarizes the extent of the damage to the distribution system, including the number of outages and length of outages associated with each storm; (3) details the collections credited to the storm fund; and (4) provides the details of any qualifying storm costs that were charged to the fund during calendar year 2018.

Annual Report of Storm Fund Activity

Included in this report is a preliminary report of the annual storm fund activity, pending final approval of storm costs incurred during calendar year 2018. Attachment 1 shows the opening balance of the storm fund, monthly collections, monthly interest applied, preliminary qualifying storm costs, and the closing balance of the storm fund.

Attachment 2 shows the monthly detail of the storm-related charges applied to the storm fund during calendar year 2018 by individual storm event. All the attachments are as follows:

- Attachment 1 – 2018 Annual Storm Fund Accounting
- Attachment 2 – 2018 Individual Accounting by storm
- Attachment 3 – January 4, 2018, Winter Storm Grayson EEI Table (Pre-stage event) and Storm Planning Report 1-3-2018
- Attachment 4 – February 7, 2018, Winter Storm Liam EEI Table (Pre-stage event) and Storm Planning Report 2-7-2018
- Attachment 5 – March 7, 2018, Winter Storm Quinn EEI Table (Qualifying event) and Winter Storm Quinn Event Outages (3-7-2018 thru 3-11-2018)
- Attachment 6 – March 13, 2018, Winter Storm Skylar EEI Table (Pre-stage event) and Storm Planning Report 3-13-2018
- Attachment 7 – April 4, 2018, Wind Storm EEI Table (Qualifying event) and Wind Storm Event Outages (4-4-18 thru 4-6-18)
- Attachment 8 – April 16, 2018, Wind Storm EEI Table (Qualifying event) and Wind Storm Event Outages (4-16-18 thru 4-17-18)

**Liberty Utilities (Granite State Electric) Corp.
Annual Storm Fund Report
Winter Snow Storm Grayson – January 4
(Pre-stage Event)**

In accordance with the operational reporting requirements of the Settlement Agreements, the Company is providing a description of the January 4, 2018, snowstorm and a summary of the extent of damage to the distribution system, including the number and length of outages.

1. Description of the Storm

For Thursday, January 4, 2018, Winter Storm Grayson had a DTN Energy Event Index (EEI) Level 4 (High Confidence) forecast of snow accumulations of 12 to 16 inches and wind gusts over 35 mph, with peak gusts of 45 mph in the Southern Salem/Pelham electric service territory. In response to the Threat Level 4 issued, Liberty Utilities pre-staged available personnel at our operational centers and customer call center. There were a total of 18.5 restoration line crews, of which 8 contractor line crews were staged at the Salem and Charlestown operational centers. Liberty Utilities also mobilized 14 contractor tree crews and staffed our customer call center with customer service representatives to work staggered shifts into the evening until 11:00 p.m.

2. Summary of the Extent of the Storm Damage

On Thursday, January 4, heavy snow (normal consistency) and winds (12 to 25 mph) started in the Salem/Pelham service territory at approximately 6:00 a.m. and continued into the late evening with snow accumulations greater than 14 inches. There was minimal impact to the electric distribution system with minimal outages (less than 50 customers).

Per PUC definition, “the Company shall be entitled to recover planning and preparation activities in advance of severe weather if the weather forecast for the event shows a Schneider Electric Event Index (“EEI”) level 3 or greater with high probability of occurrence.” Settlement Agreement at Bates 007.

**Liberty Utilities (Granite State Electric) Corp.
Annual Storm Fund Report
Winter Snow Storm Liam – February 7
(Pre-stage Event)**

In accordance with the operational reporting requirements of the Settlement Agreements, the Company is providing a description of the February 7, 2018, snowstorm and a summary of the extent of damage to the distribution system, including the number and length of outages.

1. Description of the Storm

Winter Storm Liam had a DTN Energy Event Index (EEI) Level 3 (High Confidence) forecast of snow accumulations of 8 to 12 inches (dry consistency) in Northern Lebanon/Hanover electric service territory and snow accumulations of 4 to 8 inches (normal to wet consistency) with ice accretions of 0.10 to 0.20 inches in the southern Salem/Pelham electric service territory. In response to the Threat Level 4 issued, Liberty Utilities pre-staged available personnel at our operational centers and customer call center. There were a total of 12.5 restoration line crews, of which 4 contractor line crews were staged at the Salem and Lebanon operational centers. Liberty Utilities also mobilized 11 contractor tree crews and staffed our customer call center with customer service representatives to work staggered shifts into the evening until 9:00 p.m.

2. Summary of the Extent of the Storm Damage

On Wednesday, February 7, heavy snow (dry consistency in Lebanon/Charlestown, and normal to wet in Salem) and winds (12 to 20 mph) started in Salem/Pelham service territory at approximately 11:00 a.m. and continued into the late evening with snow accumulations less than 12 inches in Lebanon and Charlestown, and Salem experienced a mixed event of wet snow, sleet, freezing rain, and rain. There was minimal impact to the electric distribution system with minimal outages (less than 5 customers).

Per PUC definition, “the Company shall be entitled to recover planning and preparation activities in advance of severe weather if the weather forecast for the event shows a Schneider Electric Event Index (“EEI”) level 3 or greater with high probability of occurrence.” Settlement Agreement at Bates 007.

**Liberty Utilities (Granite State Electric) Corp.
Annual Storm Fund Report
Winter Storm Quinn – March 7
(Qualifying Event)**

In accordance with the operational reporting requirements of the Settlement Agreements, the Company is providing a description of the March 7–March 8, 2018, snowstorm and a summary of the extent of the damage to the electric distribution system, including the number and length of outages.

1. Description of the Storm

The March 7–March 8, 2018, Winter Storm Quinn was a large snow storm that impacted approximately 20,168 Liberty customers in 10 towns in the Liberty Utilities electric service territory. Despite the damage and large number of customer interruptions, Liberty Utilities led a successful storm restoration effort and was able to restore all of its customers by 2:00 p.m. on March 11, 2018.

Winter Storm Quinn had a DTN Event Index (EEI) Level 4/3 (High Confidence) forecast for snowfall amounts of 12 to 20 inches and wind gusts 30 to 40 mph impacting Liberty Utilities service territory from March 7 at 7:00 p.m. through March 8 at 4:00 p.m. Heavy snow and strong winds interrupted service to 20,168 customers. The heavy snow and strong winds toppled trees and broke tree limbs bringing down utility poles and power lines. Although the outages were concentrated in the communities of Salem and Pelham, the storm impacted customers in 10 of the 21 New Hampshire communities serviced by Liberty Utilities.

2. Summary of the Extent of the Storm Damage

Due to the heavy snow and wind gusts, a number of customers were without power from March 7 at 9:00 p.m. through March 11:00 at 2:00 p.m.

At the storm's peak on March 8, 2018, approximately 17,998 or 41% of all Liberty Utilities customers were interrupted (Attachment 5). In response to these peak outages, Liberty deployed the 30 internal and external line crews that had been staged. Additional line contractor crews were requested and received through North Atlantic Mutual Assistance Group (NAMAG). The external contractor line crews were mobilized the morning of March 8 and NAMAG-requested crews arrived in the morning of March 9 through March 10. Liberty Utilities also mobilized a peak of 22 contractor tree crews. Liberty Utilities VP of Operations classified Quinn as a Type 1 Catastrophic Impact Event (Emergency Support), which provides for the activation of additional facilities and personnel as needed and according to the Incident Command System in Liberty Utilities Emergency Response Procedure – NH.

In all, Liberty Utilities experienced 20,168 total customers interrupted during the March 7 to March 11 storm. There were approximately 153 interruption events during the 91 hours beginning at 9:00 p.m. on March 7 and ending at 2:00 p.m. on March 11. Liberty Utilities reviewed the interruption data stored in the Responder System and determined that the storm event qualified as a major storm since approximately 153 concurrent trouble incidents occurred. Per the Settlement Agreement, a "Major Storm" shall be defined as a severe weather event or events causing 30 concurrent troubles and 15% of customers interrupted, or 45 concurrent troubles." Both criteria were met.

Below is a summary of the reliability indices for this storm period.

March 7–March 11	Events	CI	CMI	CS	SAIDI	SAIFI	CAIDI
PUC Major Event	153	20,168	27,132,867	44,043	616	0.46	1345

**Liberty Utilities (Granite State Electric) Corp.
Annual Storm Fund Report
Winter Storm Skylar – March 13
(Pre-stage Event)**

In accordance with the operational reporting requirements of the Settlement Agreements, the Company is providing a description of the March 13, 2018, snowstorm and a summary of the extent of the damage to the distribution system, including the number and length of outages.

1. Description of the Storm

As of Tuesday, March 13, 2018, Winter Storm Skylar had a DTN Energy Event Index (EEI) Level 4 (High Confidence) forecast of snow accumulations of 13 to 18 inches (Normal consistency) and wind gusts of 35 to 45 mph in the southern Salem/Pelham electric service territory. In response to the Threat Level 4 issued, Liberty Utilities pre-staged personnel at our operational centers and staffed the customer call center. There were a total of 19 restoration line crews available, which included internal and external line crews, with 10 contractor line crews pre-staged at their work location in New Hampshire and 4 internal line crews that were pre-staged at the Salem and Lebanon operational centers. Liberty Utilities also mobilized 22 contractor tree crews and staffed our customer call center with customer service representatives to work staggered shifts into the evening until 9:00 p.m.

2. Summary of the Extent of the Storm Damage

On Tuesday, March 13, 2018, heavy snow (normal consistency) and winds (30 to 40 mph) started in the Salem/Pelham service territory at approximately 12:00 to 1:00 a.m. and continued into the early evening with snow accumulations of greater than 14 inches. There was some impact to the electric distribution system with minimal outages (fewer than 1,650 customers).

Per the Settlement Agreement, “the Company shall be entitled to recover planning and preparation activities in advance of severe weather if the weather forecast for the event shows a Schneider Electric Event Index (“EEI”) level 3 or greater with high probability of occurrence.” Settlement Agreement at Bates 007.

**Liberty Utilities (Granite State Electric) Corp.
Annual Storm Fund Report
Wind Storm Event – April 4 and 5
(Qualifying Event)**

In accordance with the operational reporting requirements of the Settlement Agreements, the Company is providing a description of the April 4 and 5 wind storm and a summary of the extent of the damage to the electric distribution system, including the number and length of outages.

1. Description of the Storm

Throughout the evening of Wednesday, April 4, and into Thursday morning April 5, very strong winds developed behind a cold front across Liberty Utilities electric service territory resulting in a major weather event that impacted 1,402 customers and electric service interruptions in 15 of the 21 communities served by the Company. Despite the damage and number of customer interruptions, Liberty Utilities led a successful storm restoration effort and was able to restore all customers by April 6 at 1:00 p.m.

This Wind Storm had a DTN Event Index (EEI) Level 2 forecast on the morning of Wednesday April 4 of wind gusts up to 45 mph impacting Liberty Utilities service territory from the evening of April 4 through the morning of April 5. Higher than forecasted winds (wind gusts greater than 60 mph) interrupted service to 1,402 customers in New Hampshire. The strong winds toppled trees and broke tree limbs bringing down utility poles and power lines, severely impacting Liberty Utilities electric distribution infrastructure. Electric service outages impacted customers in 15 of the 21 communities serviced by Liberty Utilities.

2. Summary of the Extent of the Storm Damage

Due to the very strong wind gusts of greater than 60 mph, a number of customers were without power from April 4 through April 6. See Attachment 7 for peak outages by town.

At the peak on April 5 approximately 950 customers were interrupted (see Attachment 7). In response to these peak outages, internal on-call line crews responded and additional external contractor line crews were procured. There were a total of 15 restoration crews, which included internal and external contractor line crews. The external contractor line crews were mobilized the morning of April 5. Liberty Utilities also mobilized a peak of 13 contractor tree crews.

In all, Liberty Utilities experienced 1,402 total customers interrupted during this wind storm event. There were 49 interruption events during the 44 hours beginning at 7 p.m. on April 4 and ending April 6 at 1:00 p.m. There were active customer interruptions throughout this period. Liberty Utilities reviewed the interruption data stored in the Responder System and determined that the storm event qualified as a major storm since 49 concurrent troubles occurred. Per the Settlement Agreement, a "Major Storm" shall be defined as a severe weather event or events causing 30 concurrent troubles and 15% of customers interrupted, or 45 concurrent troubles (Troubles are defined as interruption events occurring on either primary or secondary lines). The second criteria was met.

Below is a summary of the reliability indices for this storm period.

April 4–April 6	Events	CI	CMI	CS	SAIDI	SAIFI	CAIDI
PUC Major Event	49	1,402	574,962	43,857	13.11	0.03	410.10

**Liberty Utilities (Granite State Electric) Corp.
Annual Storm Fund Report
Ice Storm Event – April 16
(Qualifying Event)**

In accordance with the operational reporting requirements of the Settlement Agreements, the Company is providing a description of the April 16 ice storm and a summary of the extent of the damage to the electric distribution system, including the number and length of outages.

1. Description of the Storm

On Monday, April 16, 2018, icing occurred across Liberty Utilities' western electric service territory resulting in a major weather event that impacted 5,433 customers and electric service interruptions in 15 of the 21 communities served by the Company. Despite the damage and number of customer interruptions, Liberty Utilities led a successful storm restoration effort and was able to restore all of its customers by April 17 at 6:00 p.m.

This Ice Storm had a DTN Event Index (EEI) Level 2 forecast for the evening of Sunday, April 15 of up to 0.10 - 0.15 inches of ice impacting Liberty Utilities service territory in Lebanon and Charlestown from the evening of April 15 through the morning of April 16. Hazard level icing interrupted service to 5,433 customers. The ice levels toppled trees and broke tree limbs bringing down utility poles and power lines, severely impacting Liberty Utilities electric distribution infrastructure. Electric service outages impacted customers in 15 of the 21 communities serviced by Liberty Utilities, mostly in the Lebanon/Charlestown area.

2. Summary of the Extent of the Storm Damage

Due to hazard level icing, a number of customers were without power from April 16 through April 17. See Attachment 8 for peak outages by town.

At the peak on April 16, approximately 2,851 customers were interrupted (see Figure 1). In response to these peak outages, internal on-call line crews responded and additional external contractor line crews were procured. There were a total of 15 restoration crews, which included internal and external contractor line crews. The external contractor line crews were mobilized the morning of April 16. Liberty Utilities also mobilized a peak of 10 contractor tree crews.

In all, Liberty Utilities experienced 5,433 total customers interrupted during this ice storm event. There were 52 interruption events during the 36 hours beginning at 8:00 a.m. on April 16 and ending April 17 at 6:00 p.m. There were active customer interruptions throughout this period. Liberty Utilities reviewed the interruption data stored in the Responder System and determined that the storm event qualified as a major storm since 52 concurrent troubles occurred. Per the Settlement Agreement, a "Major Storm" shall be defined as a severe weather event or events causing 30 concurrent troubles and 15% of customers interrupted, or 45 concurrent troubles (Troubles are defined as interruption events occurring on either primary or secondary lines). The second criteria was met.

Below is a summary of the reliability indices for this storm period.

April 16–April 17	Events	CI	CMI	CS	SAIDI	SAIFI	CAIDI
PUC Major Event	52	5,433	1,162,128	43,857	26.50	0.12	213.90

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Annual Storm Fund Accounting
For the Year Ended December 31, 2018

			Collections			Storm Costs								Unadjusted	Average	Interest	Adjusted	
Line		Beginning	Base	SRA	Total	Payroll	Transportation	Outside	Materials &	Employee	Accrual	Total	Ending	Monthly	Rate	Expense	Ending	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	
1	January	2018	\$ (2,928,036.28)	\$ (125,000.00)	\$ -	\$ (125,000.00)	\$ 27,453.81	\$ -	\$ 37,095.12	\$ -	\$ 259.42	\$ 14,242.20	\$ 79,050.55	\$ (2,973,985.73)	\$ (2,951,011.01)	3.75%	\$ (9,221.91)	\$ (2,983,207.64)
2	February	2018	(2,983,207.64)	(125,000.00)	-	(125,000.00)	19,053.08	-	96,292.78	-	118.81	(13,719.30)	101,745.37	(3,006,462.27)	(2,994,834.95)	3.75%	(9,358.86)	(3,015,821.13)
3	March	2018	(3,015,821.13)	(125,000.00)	-	(125,000.00)	950,216.76	-	327,118.69	-	8,746.89	190,285.86	1,476,368.20	(1,664,452.93)	(2,340,137.03)	3.75%	(7,312.93)	(1,671,765.86)
4	April	2018	(1,671,765.86)	(125,000.00)	-	(125,000.00)	189,408.94	-	605,608.08	-	625.11	51,545.65	847,187.78	(949,578.08)	(1,310,671.97)	4.00%	(4,368.91)	(953,946.98)
5	May	2018	(953,946.98)	(125,000.00)	-	(125,000.00)	91.64	-	127,044.83	-	85,649.95	(126,690.91)	86,095.51	(992,851.47)	(973,399.23)	4.00%	(3,244.66)	(996,096.14)
6	June	2018	(996,096.14)	(125,000.00)	-	(125,000.00)	-	-	246,431.74	-	693.09	(35,663.50)	211,461.33	(909,634.81)	(952,865.47)	4.00%	(3,176.22)	(912,811.03)
7	July	2018	(912,811.03)	(125,000.00)	-	(125,000.00)	-	-	104,880.36	-	-	(40,000.00)	64,880.36	(972,930.67)	(942,870.85)	4.25%	(3,339.33)	(976,270.00)
8	August	2018	(976,270.00)	(125,000.00)	-	(125,000.00)	-	-	10,591.68	-	-	-	10,591.68	(1,090,678.32)	(1,033,474.16)	4.25%	(3,660.22)	(1,094,338.54)
9	September	2018	(1,094,338.54)	(125,000.00)	-	(125,000.00)	-	-	24,132.86	-	-	300.00	24,432.86	(1,194,905.68)	(1,144,622.11)	4.25%	(4,053.87)	(1,198,959.55)
10	October	2018	(1,198,959.55)	(125,000.00)	-	(125,000.00)	-	-	-	-	-	(300.00)	(300.00)	(1,324,259.55)	(1,261,609.55)	4.25%	(4,468.20)	(1,328,727.75)
11	November	2018	(1,328,727.75)	(125,000.00)	-	(125,000.00)	-	-	-	-	-	(40,000.00)	(40,000.00)	(1,493,727.75)	(1,411,227.75)	4.25%	(4,998.10)	(1,498,725.85)
12	December	2018	(1,498,725.85)	(125,000.00)	-	(125,000.00)	-	-	11,768.51	-	-	-	11,768.51	(1,611,957.34)	(1,555,341.59)	4.25%	(5,508.50)	(1,617,465.84)
13																		
14	Totals			\$ (1,500,000.00)	\$ -	\$ (1,500,000.00)	\$ 1,186,224.23	\$ -	\$ 1,590,964.65	\$ -	\$ 96,093.27	\$ (0.00)	\$ 2,873,282.15				\$ (62,711.71)	\$ (1,617,465.84)

(1) Effective 4/1/14, \$1.5 million annually is in base rates (see Settlement Agreement, 10/30/14, DE 13-063, Order No. 25,738 dated 11/26/14)

(2) Storm Recovery Adjustment Factor (per kWh) - applied to cancel/rebills and payments on bills for prior periods
\$0.00223 effective 1/1/13, \$0.00329 effective 1/1/14, \$0.00221 effective 11/1/14, \$0.00000 effective 11/1/15

(3) Consistent with the annual storm fund report, interest is calculated each month by taking 1/12th of the annual interest (not based on the number of days in the month)

(4) See G/L accounts 8830-2-0000-10-1930-1825; 20-2910-2548

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Monthly Accounting for Storm Events
For the Year Ended December 31, 2018

Line	Month	Winter Storm Grayson 1/4/18	Winter Storm Liam 2/7/18	Noreaster 3/7-3/8/18	Winter Storm 3/12-3/13/18	Wind Event 4/4/18	Spring Ice Storm 4/16/18	Total Costs
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(k)
1	January 2018	\$ 79,050.55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 79,050.55
2	February	52,572.17	49,173.20	-	-	-	-	101,745.37
3	March	43,510.48	54,012.30	1,185,196.99	193,648.43	-	-	1,476,368.20
4	April	-	-	240,126.36	82,444.44	296,959.53	227,657.45	847,187.78
5	May	-	3,533.21	41,636.18	7,338.71	1,235.00	32,352.41	86,095.51
6	June	-	-	130,887.66	40,011.75	(4,391.65)	44,953.57	211,461.33
7	July	-	-	57,291.11	-	7,589.25	-	64,880.36
8	August	-	-	-	-	10,591.68	-	10,591.68
9	September	-	-	-	-	7,737.91	16,694.95	24,432.86
10	October	-	-	-	-	(300.00)	-	(300.00)
11	November	-	-	(40,000.00)	-	-	-	(40,000.00)
12	December	-	-	-	-	298.00	11,470.51	11,768.51
13								
14	Year Ended 12/31/18	\$ 175,133.20	\$ 106,718.71	\$ 1,615,138.30	\$ 323,443.33	\$ 319,719.72	\$ 333,128.89	\$ 2,873,282.15

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Annual Report of All Storm Fund Activity
For the Year Ended December 31, 2018
Table 1

Line No.	Description	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 27,453.81	\$ 19,053.08	\$ 950,216.76	\$ 189,408.94	\$ 91.64	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,186,224.23
2														
3	Charges for Transportation on GSE vehicles	-	-	-	-	-	-	-	-	-	-	-	-	-
4														
5	Charges from outside companies	37,095.12	96,292.78	327,118.69	605,608.08	127,044.83	246,431.74	104,880.36	10,591.68	24,132.86	-	-	11,768.51	1,590,964.65
6														
7	Charges for Materials and Supplies	-	-	-	-	-	-	-	-	-	-	-	-	-
8														
9	Charges for employee expenses	259.42	118.81	8,746.89	625.11	85,649.95	693.09	-	-	-	-	-	-	96,093.27
10														
11	Accrual for outside companies	14,242.20	(13,719.30)	190,285.86	51,545.65	(126,690.91)	(35,663.50)	(40,000.00)	-	300.00	(300.00)	(40,000.00)	-	(0.00)
12														
13	Total	<u>\$ 79,050.55</u>	<u>\$ 101,745.37</u>	<u>\$ 1,476,368.20</u>	<u>\$ 847,187.78</u>	<u>\$ 86,095.51</u>	<u>\$ 211,461.33</u>	<u>\$ 64,880.36</u>	<u>\$ 10,591.68</u>	<u>\$ 24,432.86</u>	<u>\$ (300.00)</u>	<u>\$ (40,000.00)</u>	<u>\$ 11,768.51</u>	<u>\$ 2,873,282.15</u>

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Pre-staging Costs Storm Event January 4, 2018
January 1, 2018 Through December 31, 2018

Table 1

Line No.	Description	Jan-18	Feb-18	Mar-18	Total Pre-Staging Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 27,453.81	\$ -	\$ 35,549.43	\$ 63,003.24
2					
3	Charges for Transportation on GSE vehicles	-	-	-	-
4					
5	Charges from outside companies	37,095.12	66,814.37	-	103,909.49
6					
7	Charges for Materials and Supplies	-	-	-	-
8					
9	Charges for employee expenses	259.42	-	7,961.05	8,220.47
10					
11	Accrual for outside companies	14,242.20	(14,242.20)	-	-
12					
13	Total	<u>\$ 79,050.55</u>	<u>\$ 52,572.17</u>	<u>\$ 43,510.48</u>	<u>\$ 175,133.20</u>

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Pre-staging Costs - Winter Storm Liam February 7, 2018
January 1, 2018 Through December 31, 2018

Table 2

Line No.	Description	Feb-18	Mar-18	Apr-18	May-18	Total Pre-staging Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 19,053.08	\$ 23,010.15	\$ -	\$ -	\$ 42,063.23
2						
3	Charges for Transportation on GSE vehicles	-	-	-	-	-
4						
5	Charges from outside companies	29,478.41	31,254.36	41.81	-	60,774.58
6						
7	Charges for Materials and Supplies	-	-	-	-	-
8						
9	Charges for employee expenses	118.81	228.88	-	3,533.21	3,880.90
10						
11	Accrual for outside companies	522.90	(481.09)	(41.81)	-	-
12						
13	Total	<u>\$ 49,173.20</u>	<u>\$ 54,012.30</u>	<u>\$ -</u>	<u>\$ 3,533.21</u>	<u>\$ 106,718.71</u>

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Staging Costs Qualifying Storm - Noreaster March 7 to March 8, 2018
January 1, 2018 Through December 31, 2018
Table 3

Line No.	Description	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Nov-18	Total Qualifying Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 788,408.74	\$ 705.25	\$ -	\$ -	\$ -	\$ -	\$ 789,113.99
2								
3	Charges for Transportation on GSE vehicles	-	-	-	-	-	-	-
4								
5	Charges from outside companies	270,613.14	284,633.12	6,863.15	130,887.66	97,291.11	-	790,288.18
6								
7	Charges for Materials and Supplies	-	-	-	-	-	-	-
8								
9	Charges for employee expenses	556.96	406.14	34,773.03	-	-	-	35,736.13
10								
11	Accrual for outside companies	125,618.15	(45,618.15)	-	-	(40,000.00)	(40,000.00)	-
12								
13	Total	<u>\$ 1,185,196.99</u>	<u>\$ 240,126.36</u>	<u>\$ 41,636.18</u>	<u>\$ 130,887.66</u>	<u>\$ 57,291.11</u>	<u>\$ (40,000.00)</u>	<u>\$ 1,615,138.30</u>

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Pre-staging Costs - Winter Storm March 12 to March 13, 2018
January 1, 2018 Through December 31, 2018

Table 4

Line No.	Description	Mar-18	Apr-18	May-18	Jun-18	Total Pre-Staging Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 103,248.44	\$ -	\$ -	\$ -	\$ 103,248.44
2						
3	Charges for Transportation on GSE vehicles	-	-	-	-	-
4						
5	Charges from outside companies	25,251.19	105,963.47	-	41,506.75	172,721.41
6						
7	Charges for Materials and Supplies	-	-	-	-	-
8						
9	Charges for employee expenses	-	129.77	47,343.71	-	47,473.48
10						
11	Accrual for outside companies	65,148.80	(23,648.80)	(40,005.00)	(1,495.00)	-
12						
13	Total	<u>\$ 193,648.43</u>	<u>\$ 82,444.44</u>	<u>\$ 7,338.71</u>	<u>\$ 40,011.75</u>	<u>\$ 323,443.33</u>

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Qualifying Costs - Wind Event April 4, 2018
January 1, 2018 Through December 31, 2018
Table 5

Line No.	Description	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Dec-18	Total Qualifying Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 86,943.49	\$ 82.86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,026.35
2										
3	Charges for Transportation on GSE vehicles	-	-	-	-	-	-	-	-	-
4										
5	Charges from outside companies	192,900.84	10,186.14	3,588.90	7,589.25	10,591.68	7,437.91	-	298.00	232,592.72
6										
7	Charges for Materials and Supplies	-	-	-	-	-	-	-	-	-
8										
9	Charges for employee expenses	89.20	-	11.45	-	-	-	-	-	100.65
10										
11	Accrual for outside companies	17,026.00	(9,034.00)	(7,992.00)	-	-	300.00	(300.00)	-	-
12										
13	Total	<u>\$ 296,959.53</u>	<u>\$ 1,235.00</u>	<u>\$ (4,391.65)</u>	<u>\$ 7,589.25</u>	<u>\$ 10,591.68</u>	<u>\$ 7,737.91</u>	<u>\$ (300.00)</u>	<u>\$ 298.00</u>	<u>\$ 319,719.72</u>

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Staging Costs Qualifying Storm Event - Spring Ice Storm April 16, 2018
January 1, 2018 Through December 31, 2018

Table 6

Line No.	Description	Apr-18	May-18	Jun-18	Sep-18	Dec-18	Total Qualifying Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 101,760.20	\$ 8.78	\$ -	\$ -	\$ -	\$ 101,768.98
2							
3	Charges for Transportation on GSE vehicles	-	-	-	-	-	-
4							
5	Charges from outside companies	22,068.84	109,995.54	70,448.43	16,694.95	11,470.51	230,678.27
6							
7	Charges for Materials and Supplies	-	-	-	-	-	-
8							
9	Charges for employee expenses	-	-	681.64	-	-	681.64
10							
11	Accrual for outside companies	103,828.41	(77,651.91)	(26,176.50)	-	-	-
12							
13	Total	<u>\$ 227,657.45</u>	<u>\$ 32,352.41</u>	<u>\$ 44,953.57</u>	<u>\$ 16,694.95</u>	<u>\$ 11,470.51</u>	<u>\$ 333,128.89</u>

Robert Johnson Jr. - NH

From: DTN <EnergyEventIndex@dtm.com>
Sent: Wednesday, January 03, 2018 4:43 PM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 4

Energy Event Index for ALGONQUIN POWER

Your forecast administrator: robert.mercier@libertyutilities.com

Valid Time: January 3, 2018 4:00 PM EST

Forecaster: scott.dumblauskas

Parameter	Region	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Wind Speed	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Wind/Gust	Montauk NY	1	2	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Snow	Montauk NY	1	3	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	2	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	4	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Ice	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Confidence Level	Montauk NY	High	High	Medium	Medium	High	Medium	Medium	High	High	High
	Northern Lebanon Hanover NH	High	High	High	High	High	Medium	Medium	High	High	High
	Northwest Monroe Bath NH	High	High	High	High	High	Medium	Medium	High	High	High
	Southern Salem Derry NH	High	High	High	High	High	Medium	Medium	High	High	High
	Western Alstead Charlestown NH	High	High	High	High	High	Medium	Medium	High	High	High

Energy Event Index Definition

No Leaves (Nov 1 - Mar 31)

EEI	Wind Speed	Wind/Gust	Snow	Ice
1	< 40 mph	< 45 mph	< 6 in.	< 1/10 in.
2	>= 40 mph	>= 45 mph	>= 6 in.	>= 1/10 in.
3	>= 50 mph	>= 55 mph	>= 8 in.	>= 3/8 in.
4	>= 60 mph	>= 70 mph	>= 12 in.	>= 1/2 in.
5	>= 70 mph	>= 85 mph	>= 24 in.	>= 1 in.

Confidence Level	
Low	<30% chance the most likely index level remains at that level through the event
Medium	30-60% chance the most likely index level remains at that level through the event
High	>=60% chance the most likely index level remains at that level through the event

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Go to WeatherSentry.com for a complete view of the forecast and other business critical weather information.

Please do not respond to this email.



DATE: Wednesday, January 03, 2018
TIME: 10:00 am Winter Storm Grayson

	<u>Lebanon</u>	<u>Salem</u>	<u>Charlestown</u>	<u>Comments</u>
Weather Forecast	Snow to begin 8:00 am and continue throughout day ending late evening. 5" to 7" of dry snow. Wind Gusts over 45 mph late afternoon through the evening hours will subside around midnight.	Snow to begin 5:00 am and continue throughout day ending late evening. 12" to 14" of dry snow. Wind gusts over 35 MPH possible in the afternoon with peak gust reaching 45mph. Gusts will continue through the day on Friday.	Snow to begin 8:00 am and continue throughout day ending late evening. 5" to 7" of dry snow. Wind Gusts over 45 mph late afternoon through the evening hours will subside around midnight.	Temps will range between 0 and 20 degrees for all area's tomorrow and Friday falling to -3 to -7 in most areas on Saturday.
Anticipated EERP Event Type	Type 4	Type 4	Type 4	
Resources				Totals
Internal Crews	3 crews 2 troubleshooters	6 crews 1 troubleshooter	1.5 crews	10.5
Contractor Crews		6	2	8
Total Line Crews available	3	12	3.5	18.5
Tree Crews	2	10	2	14
Wires Down	0	0	0	0
Other Support	Customer Service			
LU Storm Room Status	N/A	N/A	N/A	
LU Municipal Room Status	closed			
Customer Outage Count	N/A	N/A	N/A	
Estimated Date/Time for Total Restoration	N/A	N/A	N/A	
Planned Storm Conference Calls	Next Call at 10:00 AM Thursday – January 4 th .			
Notifications with Regulators. NHPUC/NH OEM	Planning Report			
EII Event Index & Storm Accounting	Description	GP Expense Job	GP VM Job	
	EII – Level 4 High Confidence	STORM-EXP-1801	STORM-VGMT-1801	

Robert Johnson Jr. - NH

From: DTN <EnergyEventIndex@dtm.com>
Sent: Tuesday, February 06, 2018 8:05 AM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 3

Energy Event Index for ALGONQUIN POWER

Your forecast administrator: robert.mercier@libertyutilities.com

Valid Time: February 6, 2018 8:00 AM EST

Forecaster: tanner.verstegen

Parameter	Region	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Wind Speed	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Wind/Gust	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Snow	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	3	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	3	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	2	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	2	1	1	1	1	1	1	1	1
Ice	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	2	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Confidence Level	Montauk NY	High	High	High	High	High	Medium	High	High	High	High
	Northern Lebanon Hanover NH	High	High	High	High	High	Medium	High	High	High	High
	Northwest Monroe Bath NH	High	Medium	High	High	High	Medium	High	High	High	High
	Southern Salem Derry NH	High	Medium	High	High	High	Medium	High	High	High	High
	Western Alstead Charlestown NH	High	High	High	High	High	Medium	High	High	High	High

Energy Event Index Definition

No Leaves (Nov 1 - Mar 31)

EEI	Wind Speed	Wind/Gust	Snow	Ice
1	< 40 mph	< 45 mph	< 6 in.	< 1/10 in.
2	>= 40 mph	>= 45 mph	>= 6 in.	>= 1/10 in.
3	>= 50 mph	>= 55 mph	>= 8 in.	>= 3/8 in.
4	>= 60 mph	>= 70 mph	>= 12 in.	>= 1/2 in.
5	>= 70 mph	>= 85 mph	>= 24 in.	>= 1 in.

Confidence Level	
Low	<30% chance the most likely index level remains at that level through the event
Medium	30-60% chance the most likely index level remains at that level through the event
High	>=60% chance the most likely index level remains at that level through the event

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Go to [WeatherSentry® Online](http://WeatherSentry.com) for a complete view of the forecast and other business critical weather information.

Please do not respond to this email.



DATE: Tuesday, February 06, 2018
TIME: 1:00 PM Winter Storm Liam

	<u>Lebanon</u>	<u>Salem</u>	<u>Charlestown</u>	<u>Comments</u>	
Weather Forecast	Snow will begin to develop around 11AM 2/7 and continue through 10pm. Snow will be normal consistency with little to now winds. 8” to 12” is expected.	Snow will begin to develop close to noon and switch to a freezing rain/sleet mix after 4pm. The mix will continue through the night with possible ice accretions of 0.10 to .020. Winds will be light with gust possible to 25 MPH. Temps will remain 32 to 33 degrees. Snow amounts 4 to 8”.	Snow will begin to develop around 11AM 2/7 and continue through 10pm. Snow will be normal consistency with little to now winds. 8” to 12” is expected.		
Anticipated EERP Event Type	Type 4	Type 4	Type 4		
Resources				Totals	Customer service will be open for calls until 9pm
Internal Crews	2.5	5	1	8.5	
Contractor Crews	2	2		4	
Total Line Crews available	4.5	7	1	12.5	
Tree Crews	3	8		11	
Wires Down	4	3	NA	7	
Other Support	NA	NA	NA		
LU Storm Room Status	N/A	N/A	N/A		
LU Municipal Room Status	closed				
Customer Outage Count	N/A	N/A	N/A		
Estimated Date/Time for Total Restoration	N/A	N/A	N/A		
Planned Storm Conference Calls	Next Call at 1:00 pm 2/7/18				
Notifications with Regulators. NHPUC/NH OEM	Planning Report				
EII Event Index & Storm Accounting	Description	GP Expense Job	GP VM Job		
	EII – Level 2/3 High Confidence	STORM-EXP-1805	STORM-VGMT-1805		

Robert Johnson Jr. - NH

From: DTN <EnergyEventIndex@dtn.com>
Sent: Tuesday, March 06, 2018 8:05 AM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 4

Energy Event Index for ALGONQUIN POWER

Your forecast administrator: robert.mercier@libertyutilities.com

Valid Time: March 6, 2018 8:00 AM EST

Forecaster: justin.wegwerth

Parameter	Region	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Wind Speed	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Wind/Gust	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Snow	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	3	3	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	3	3	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	4	4	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	3	3	1	1	1	1	1	1	1
Ice	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Confidence Level	Montauk NY	High	High	High	High	High	High	High	High	High	High
	Northern Lebanon Hanover NH	High	High	High	High	High	High	High	High	High	High
	Northwest Monroe Bath NH	High	High	High	High	High	High	High	High	High	High
	Southern Salem Derry NH	High	High	High	High	High	High	High	High	High	High
	Western Alstead Charlestown NH	High	High	High	High	High	High	High	High	High	High

Energy Event Index Definition

No Leaves (Nov 1 - Mar 31)

EEI	Wind Speed	Wind/Gust	Snow	Ice
1	< 40 mph	< 45 mph	< 6 in.	< 1/10 in.
2	>= 40 mph	>= 45 mph	>= 6 in.	>= 1/10 in.
3	>= 50 mph	>= 55 mph	>= 8 in.	>= 3/8 in.
4	>= 60 mph	>= 70 mph	>= 12 in.	>= 1/2 in.
5	>= 70 mph	>= 85 mph	>= 24 in.	>= 1 in.

Confidence Level	
Low	<30% chance the most likely index level remains at that level through the event
Medium	30-60% chance the most likely index level remains at that level through the event
High	>=60% chance the most likely index level remains at that level through the event

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Go to [WeatherSentry® Online](http://WeatherSentry.com) for a complete view of the forecast and other business critical weather information.

Please do not respond to this email.

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities
2018 Storm Fund Report
Attachment 5
Page 2 of 6

	ID	Feeder	Date	Duration	CI	CMI	Town	Comments	Cause	Wind	Weather
1	42001	13L2	3/7/2018	63	1	63	SALEM	REATTACHED SERVICE P5 SHADOW LAKE RD DUE TO BROKEN TREE LIMB	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
2	42005	14L1	3/7/2018	96	1	96	PELHAM	SERVICE FROM P7 NANCY RIPPED DOWN BY LARGE TREE - REHUNG	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
3	42026	13L2	3/7/2018	73	291	44,827	SALEM	PTR 701213 PHASE C LOCKED OUT @ P5 ZION HILL RD, SALEM. CAUSE: TREE BRANCH PAST P44 ZION HILL RD. BRANCH REMOVED.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
4	42034	13L2	3/7/2018	3790	18	68,220	SALEM	BLOWN 40K FUSE P1 MATTHEWS DR DUE TO FALLEN TREE MATTHEWS DR, SALEM.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
5	42037	14L3	3/7/2018	82	89	7,298	PELHAM	BLOWN 65K FUSE P51 WINDHAM RD, PELHAM DUE TO BRANCH BETWEEN P53 & P56 WINDHAM RD, PELHAM	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
6	42071	18L4	3/7/2018	94	365	837,983	SALEM	PTR 701187 P47 PELHAM RD, SALEM LOCKED OUT. CLEARED LIMBS ON COMMERCIAL DRIVE, MULTIPLE LOCATIONS.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
7	42137	13L3	3/8/2018	130	461	59,930	SALEM	PTR 701230 LOCKED OUT [PHASE B & C], P6 SCHOOL ST, SALEM. CAUSE: LIMB P25 SCHOOL ST, SALEM.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
8	42151	18L2	3/8/2018	61	2018	1,542,855	SALEM	PTR 701015 RECLOSER LOCKED OUT @ P10 VETS MEMORIAL PKWY, SALEM. MULTIPLE TREE LIMBS AT VARIOUS LOCATIONS	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
9	42168	14L4	3/8/2018	1686	1034	1,297,722	PELHAM	14L4 BREAKER LOCKED OUT. CAUSE: LIMBS ON WIRES MULTIPLE LOCATIONS BRIDGE ST, PELHAM	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
10	42214	14L1	3/7/2018	4805	1	4,805	PELHAM	TREE P3 GLADYS ST, PELHAM. REHUNG SERVICE	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
11	42336	14L3	3/7/2018	2705	50	135,250	PELHAM	BLOWN 65K LINE FUSE P4 HOBBS - TREE AND WIRES DOWN NEAR P14 SIMPSON MILL RD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
12	42338	14L2	3/7/2018	5158	37	190,846	PELHAM	BLOWN 25K LINE FUSE P28 SHERBURNE RD, PELHAM - DUE TO FALLEN TREE, MULTIPLE LIMBS SHERBURNE RD.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
13	42410	10L4	3/8/2018	3618	1	3,618	SALEM	SERVICE P7 PATTEE RD DAMAGED DUE TO TREE P7 PATTEE RD.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
14	42429	9L3	3/7/2018	589	103	60,667	SALEM	PTR 701076 P1.5 BROOKDALE RD, SALEM LOCKED OUT. DUE TO LIMBS & DEBRIS ON BROOKDALE RD, SALEM	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
15	42443	10L4	3/8/2018	587	244	143,228	SALEM	P4 BUTLER ST PTR 701078 LOCKED OUT DUE TO LARGE LIMB P26 BUTLER	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
16	42585	18L3	3/8/2018	487	698	339,926	SALEM	18L3 BREAKER LOCKED OPEN- CAUSE: MULTIPLE FALLEN LIMBS ALONG THE SOUTH POLICY AND PLEASANT ST.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
17	43223	14L2	3/7/2018	2941	23	67,643	PELHAM	BLOWN 40K FUSE P23 MAIN ST, PELHAM DUE TO STORM, MULTIPLE LIMBS ON WIRE MAIN ST & HEATHER LEE LANE. REMOVED.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
18	42678	10L4	3/8/2018	3917	2	7,834	SALEM	DISCONNECTED SECONDARY WIRES AT P11 PATTEE RD DUE TO BROKEN POLE 12 PATTEE RD FROM A FALLEN TREE.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
19	42687	14L3	3/8/2018	2280	321	392,238	PELHAM	MANUALLY OPENED P42 WINDHAM RD * FAILED DEAD-END BELLS AND DISC. @ P41 REPAIRED PHASE OFF GLASS @ 39	Device Failed	2-Wind-Strong (32-54 mph)	7-Snow-wet
20	43001	12L1	3/8/2018	484	2	968	WALPOLE	BLOWN 25K LINE FUSE P81 VALLEY ROAD / PRIMARY IN CONTACT WITH NEUTRAL P1 EATON RD DUE TO SNOW	Unknown	2-Wind-Strong (32-54 mph)	7-Snow-wet
21	43129	13L3	3/8/2018	1636	2	3,272	SALEM	BLOWN FUSES P14 GEREMONTY DR. - LIMB P15 GEREMONTY	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
22	43189	18L3	3/8/2018	2062	6	12,372	SALEM	BLOWN FUSES P26 SOUTH POLICY. CAUSE UNKNOWN	Unknown	2-Wind-Strong (32-54 mph)	7-Snow-wet
23	45498	9L1	3/9/2018	2683	1	2,683	SALEM	SERVICE FROM P4 CHURCH AVE RECONNECTED	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
24	43754	14L2	3/7/2018	921	822	757,062	PELHAM	PTR# 704012 P5 BURNS RD, PELHAM LOCKED OUT - MULTIPLE TREES/BRANCHES FELL INTO PRIMARY	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
25	43241	9L3	3/7/2018	760	138	382,878	WINDHAM	BLOWN 65K FUSES SEARLES RD WINDHAM DUE TO TREES.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
26	43275	9L1	3/8/2018	206	101	20,806	SALEM	MANUALLY OPENED 50K LINE FUSES P15 MAIN ST - EMERGENCY - LARGE TREE FELL, WIRES DOWN,	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
27	43416	10L2	3/8/2018	324	457	196,317	SALEM	PTR# 701013 P9 CLUFF RD, SALEM LOCKED OUT (2X OPS) DUE TO MULTIPLE TREES ALONG CLUFF	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
28	43479	10L2	3/8/2018	735	41	30,135	SALEM	BLOWN 40K FUSE AT P24 KELLY RD BETWEEN P 7-8 CHATHAM CIRCLE DOWNED PRIMARY AND SECONDARY	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
29	43702	10L4	3/8/2018	2725	37	100,825	SALEM	BLOWN 25K FUSE AT P19 WHEELER - TREE FELL AND CLEARED AT P2 ASHWOOD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
30	43720	10L2	3/8/2018	2783	25	69,575	SALEM	PRIMARIES AND SECONDARIES DOWN BETWEEN P's 1-4	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
31	45259	10L2	3/9/2018	603	63	37,989	SALEM	BLOWN 25K FUSE AT P2 COLE ST SALEM DUE TO FALLEN TREE AT AT P3 GARRISON. DOWNED SERVICE WIRE.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
32	43746	10L4	3/8/2018	3102	1	3,102	SALEM	BLOWN 40K FUSE (1 OF 3) CENTER PHASE AT P7 BARRON AVE . TREE LIMBS ON LINE BETWEEN POLES 2 & 3 HAIGH ST.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
33	42746	10L4	3/8/2018	3102	1	3,102	SALEM	REHUNG SERVICE FROM P25-1 WHEELER AVE	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
33	42624	14L2	3/8/2018	1633	81	132,273	PELHAM	LINE FUSE OPEN P16 BUSH HILL, PELHAM - CAUSE: TREE DOWN @ #123 BUSH HILL & LIMBS DOWN OTHER LOCATIONS	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
34	42901	14L2	3/8/2018	536	1977	4,071,587	PELHAM	14L2 BREAKER LOCKED OUT DUE TO MULTIPLE FALLEN TREES	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
35	46939	14L2	3/8/2018	3216	904	2,907,264	PELHAM	PTR# 704008 P5 NASHUA RD, PELHAM LOCKED OUT - MULTIPLE TREES/BRANCHES FELL INTO PRIMARY	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
36	47066	14L2	3/8/2018	3868	305	1,179,740	PELHAM	PTR# 704020 P127 MAMMOTH RD, PELHAM LOCKED OUT - MULTIPLE TREES/BRANCHES FELL INTO PRIMARY	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
37	46727	14L2	3/10/2018	1002	37	37,074	PELHAM	MANUALLY OPENED 15K LINE FUSE P84 MAMMOTH RD FOR REPAIRS	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
38	46728	14L2	3/10/2018	219	119	26,061	PELHAM	MANUALLY OPENED 65K FUSE P115 MAMMOTH RD TO MAKE REPAIRS ON JEREMY HILL RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
39	46729	14L2	3/10/2018	219	50	10,950	PELHAM	MANUALLY OPENED 40K FUSE P1 MADISON AVE TO MAKE REPAIRS ON JEFFERSON AVE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
40	46730	14L2	3/10/2018	219	14	3,066	PELHAM	MANUALLY OPENED 15K FUSE P11 BROOKVIEW DR TO MAKE REPAIRS ON HOMESTEAD RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
41	46731	14L2	3/10/2018	219	29	6,351	PELHAM	MANUALLY OPENED 25K FUSE P20 NASHUA RD TO MAKE REPAIRS ON COLONIAL DR AND INDEPENDENCE DR	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
42	46814	14L2	3/11/2018	347	1	347	PELHAM	TREE LIMB ON SERVICE P15 BROOKVIEW DR, PELHAM. REPLACED SERVICE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities
2018 Storm Fund Report
Attachment 5
Page 3 of 6

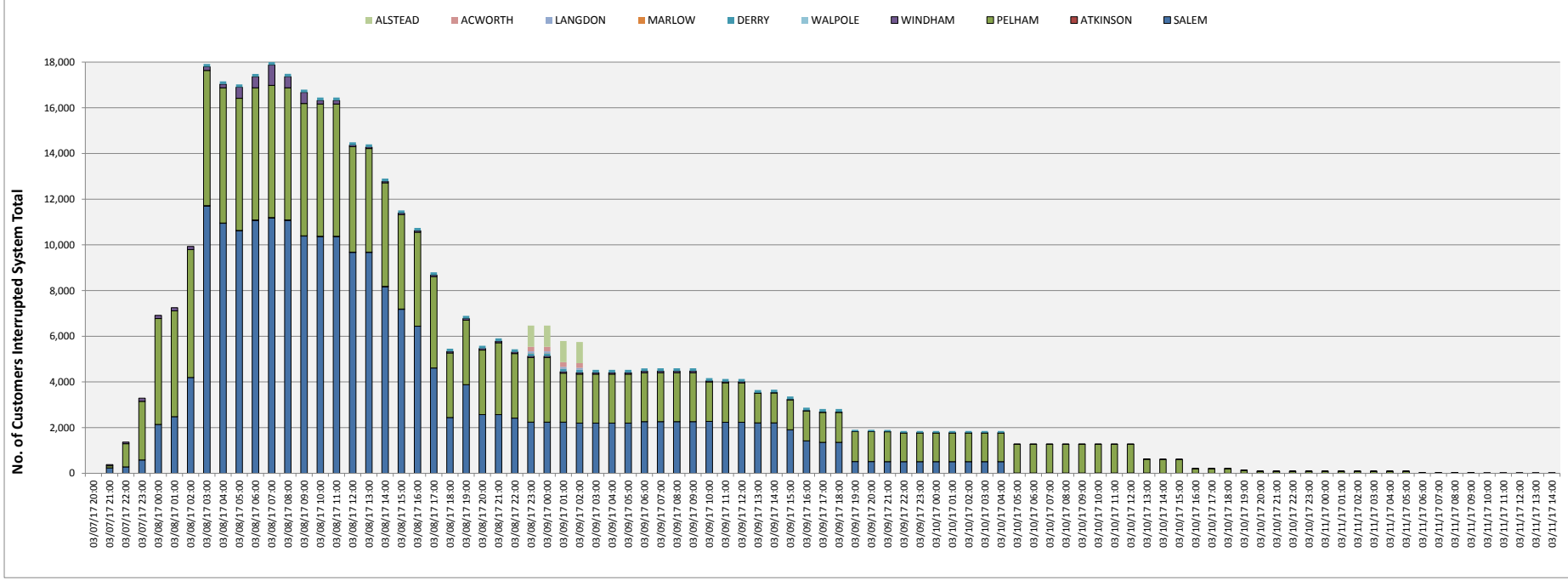
	ID	Feeder	Date	Duration	CI	CMI	Town	Comments	Cause	Wind	Weather
43	46893	14L2	3/12/2018	157	1	157	PELHAM	TREE FELL ON SERVICE- SPLICED SERVICE AND REHUNG- GUMPUS HILL RD, PELHAM NH	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
44	43782	9L3	3/8/2018	1814	25	45,350	SALEM	BLOWN FUSE P1 W SHORE RD DUE TO DAMAGED POLE TOP AT WOODVUE RD. TREES IN WIRES.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
45	44772	9L3	3/7/2018	1274	62	78,988	SALEM	BLOWN FUSE P23 N POLICY ST. CAUSE UNKNOWN	Unknown	2-Wind-Strong (32-54 mph)	7-Snow-wet
46	45015	9L3	3/7/2018	1542	42	64,764	SALEM	BLOWN 40K LINE FUSE P1 WEST DUSTON DUE TO FALLEN TREE AT P4 WEST DUSTON RD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
47	45133	13L2	3/8/2018	1325	252	333,900	WINDHAM	BLOWN FUSE P28 ROCKINGHAM RD WINDHAM (ROAD PHASE CLOSED). CAUSE UNKNOWN	Unknown	2-Wind-Strong (32-54 mph)	7-Snow-wet
48	45188	13L2	3/8/2018	848	2	1,696	WINDHAM	BLOWN 15K LINE FUSE P4 SHADOW LAKE RD DUE TO BRANCH ON LINES	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
49	45222	9L3	3/8/2018	2144	42	90,048	WINDHAM	BLOWN FUSE ROULSTON RD AND SEARLES RD FEEDING ROULSTON RD. PRIMARY DOWN BETWEEN P4-5 ROULSTON RD.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
50	45238	9L3	3/8/2018	2400	3	7,200	WINDHAM	BLOWN FUSE P38 ROCKINGHAM RD. MIDDLE PHASE WIRES DOWN AT ROULSTON RD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
51	45277	9L3	3/9/2018	3317	2	6,634	WINDHAM	BLOWN 15K FUSE P16 SEARLES CASTLE RD - BROKEN P15-1 REPLACED AND TRANSFERRED	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
52	45299	9L3	3/9/2018	2886	1	2,886	SALEM	CUSTOMER MADE REPAIRS AND SERVICE REHUNG FROM P58 N POLICY	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
53	45324	9L3	3/8/2018	1797	21	37,737	WINDHAM	BLOWN 50K FUSE P3 JOHNSON RD - TREES ON BIRCHWOOD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
54	45383	9L3	3/8/2018	41	516	21,156	WINDHAM	MANUALLY OPENED PTR 701013 P7 RANGE RD FROM POLICE/FIRE REQUEST	Unknown	2-Wind-Strong (32-54 mph)	7-Snow-wet
55	45396	13L2	3/9/2018	10	2	20	WINDHAM	BLOWN 10K FUSE P26 ROCKINGHAM RD - LARGE LIMBS REMOVED FROM TREE ON JONES RD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
56	45402	9L3	3/9/2018	339	1	339	SALEM	REHUNG SERVICE FROM P6 LAKE SHORE RD - TREE LIMB	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
57	45404	9L3	3/9/2018	1953	2	3,906	WINDHAM	BLOWN 15K TRANSFORMER FUSE P5 JOHNSON RD - REHUNG SERVICE FROM P5 JOHNSON RD - TREE LIMBS ON SERVICE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
58	45465	9L3	3/9/2018	2394	1	2,394	SALEM	REATTACHED SERVICE FROM P9-50 PLEASANT ST	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
59	45751	13L2	3/9/2018	1680	48	80,640	SALEM	BLOWN 65K FUSE AT P33 LAKE ST - PRIMARY DOWN BETWEEN P19-20 SAMOSET DR	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
60	45965	9L3	3/9/2018	1665	20	33,300	WINDHAM	BLOWN 25K FUSE P6 JOHNSON RD - TREES ON ROLLING RIDGE RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
61	46692	9L3	3/10/2018	945	1	945	SALEM	REPAIRED SERVICE WIRES AT P9-50 PLEASANT ST.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
62	46825	9L3	3/10/2018	1610	135	217,350	WINDHAM	BLOWN 65K FUSE (1 OF 3) P26 RANGE RD - CAUSE UNKNOWN	Unknown	2-Wind-Strong (32-54 mph)	7-Snow-wet
63	42080	13L2	3/7/2018	125	291	36,375	SALEM	P5 ZION HILL RD, SALEM PTR 701213 LOCKED OPEN [PHASE B & C]. CAUSE: MULTIPLE LIMBS. CLEARED LIMB @ P44 ZION HILL RD.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
64	42844	13L2	3/8/2018	3218	30	96,540	SALEM	BLOWN 50K FUSE P16 SHADOW LAKE - TREE AND WIRES DOWN ON DOIRON RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
65	45995	13L2	3/9/2018	1421	1	1,421	SALEM	REATTACHED SERVICE TO P3 LAKE ST - TREE LIMB	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
66	45996	13L2	3/9/2018	2276	1	2,276	SALEM	SERVICE FROM P12 LAKE REHUNG - TREE LIMBS	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
67	46785	13L2	3/11/2018	570	1	570	SALEM	TREE BRANCH TORE DOWN SERVICE FROM P18 GROVE AVE - CREW RE INSTALLED TRIPLEX	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
68	46789	13L2	3/11/2018	40	6	240	SALEM	CREW OPENED 15K TRANSFORMER FUSE P11 LAKE ST TO REPAIR SECONDARIES DUE TO TREE CONTACT P11 LAKE ST	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
69	46904	13L2	3/8/2018	2126	1944	3,722,402	SALEM	LOSS OF NATIONAL GRID 2376 LINE DUE TO FALLEN TREE AT 23KV MASSACHUSETTS ROW	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
70	45241	13L1	3/8/2018	1894	8	15,152	SALEM	BLOWN FUSE P35 NORTH MAIN ST. PRIMARY DOWN BETWEEN NORTH MAIN AND JENNINGS RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
71	45423	13L1	3/8/2018	3502	1	3,502	SALEM	REPLACED SERVICE FROM P4 GLEN RD - TREE FELL P4 GLEN	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
72	45426	13L1	3/8/2018	3849	2	7,698	SALEM	SECONDARY AND SERVICE RESTORED FROM P3 ELSIE AVE - TREE P3 ELSIE AVE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
73	45885	13L1	3/8/2018	2070	2219	5,520,078	SALEM	LOSS OF NATIONAL GRID 2376 LINE DUE TO FALLEN TREE AT 23KV MASSACHUSETTS ROW	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
74	45897	13L1	3/9/2018	4204	1	4,204	SALEM	REATTACHED SERVICE AT P7 TO P7-1 ATKINSON RD - TREE LIMB P7-1	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
75	45904	13L1	3/9/2018	825	73	60,225	DERRY	BLOWN 40K LINE FUSE P13 ERMER RD, DERRY - CLEARED & PATROLLED - MANY LIMBS	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
76	45976	13L1	3/9/2018	2315	2	4,630	SALEM	RE-INSTALLED SECONDARY P7 TO P7-80 ATKINSON RD DUE TO FALLEN TREE	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
77	45979	13L1	3/10/2018	1440	8	11,520	SALEM	BLOWN 6K LINE FUSE P10 HENRY TAYLOR ST - TREE AND WIRES DOWN ON KING ST	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
78	45980	13L1	3/9/2018	577	50	28,850	SALEM	BLOWN 25K FUSE P168 N. MAIN ST SALEM - LIMBS ON PARKER CIR	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
79	45982	13L1	3/9/2018	519	27	14,013	SALEM	BLOWN 40K LINE FUSE P4 CHAPPY LN - TREE LIMBS	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
80	46194	13L1	3/9/2018	753	6	4,518	DERRY	BLOWN 15K TRANSFORMER FUSE P9 LADY LN - TREE LIMBS REMOVED BY TREE CREW	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
81	46651	13L1	3/9/2018	927	73	67,671	SALEM	BLOWN 40K FUSE P13 ERMER RD, SALEM - CAUSE UNKNOWN	Unknown	2-Wind-Strong (32-54 mph)	7-Snow-wet
82	46709	13L1	3/10/2018	1370	1	1,370	SALEM	TWO SECTIONS OF SECONDARY REHUNG FROM P67 SHORE DR - CAUSE: TREE LIMBS P67 SHORE DR, SALEM	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
83	42816	13L3	3/8/2018	855	2588	2,230,874	SALEM	LOSS OF NATIONAL GRID 2376 LINE DUE TO FALLEN TREE AT 23KV MASSACHUSETTS ROW	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
84	43129	13L3	3/8/2018	1636	2	3,272	SALEM	BLOWN FUSES P14 GEREMONTY DR. - LIMB P15 GEREMONTY	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
85	45384	13L3	3/8/2018	2001	11	22,011	SALEM	BLOWN 10K TRANSFORMER FUSE P38 BRIDGE ST - CREWS PATROLLED LINE AND CLEARED BRANCHES	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
86	45390	13L3	3/8/2018	2736	155	424,080	SALEM	BLOWN 40K LINE FUSE P10 WHEELER AVE - CREWS MADE REPAIRS IN VARIOUS AREAS ON OLD COACH RD AND PALOMINO RD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities
2018 Storm Fund Report
Attachment 5
Page 4 of 6

	ID	Feeder	Date	Duration	CI	CMI	Town	Comments	Cause	Wind	Weather
87	45394	13L3	3/8/2018	2065	24	49,560	SALEM	BLOWN 25K FUSE P23 BRIDGE - BRANCHES ON STANWOOD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
88	45395	13L3	3/8/2018	2302	9	20,718	SALEM	BLOWN 15K TRANSFORMER FUSE P6 SHERWOOD CIR - LIMB P6 SHERWOOD CIR	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
89	45397	13L3	3/8/2018	2302	29	66,758	SALEM	BLOWN 25K FUSE P4 SHERWOOD CIRCLE - CLEARED BRANCHES ON TAMMY ST	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
90	46719	13L3	3/10/2018	847	1	847	SALEM	TREE LIMB ON SERVICE FROM P9-2 WELSH CIR, SALEM TO HOUSE.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
91	46756	13L3	3/10/2018	1027	1	1,027	SALEM	SERVICE REHUNG FROM P11 HENDERSON CIR	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
92	46790	13L3	3/11/2018	770	1	770	SALEM	SERVICE DOWN DUE TO TREE P18 BRIDGE ST, SALEM	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
93	42669	18L2	3/8/2018	615	2018	1,241,070	SALEM	18L2 CB LOCKED OUT. - TREE CONDITIONS ALL ALONG CROSS ST AND BRADY AVE	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
94	44728	18L2	3/8/2018	193	51	9,843	SALEM	BLOWN 25K FUSE AT P6 S. POLICY ST. SALEM TREE BRANCHES REMOVED FROM LINES	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
95	44790	13L3	3/8/2018	3673	1	3,673	SALEM	REPLACED SECONDARY WIRES AT HENDERSON AVE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
96	45048	13L3	3/8/2018	2330	11	25,630	SALEM	BLOWN 15K TRANSFORMER FUSE P2 TOWNSEND - BRANCH	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
97	45057	13L3	3/8/2018	2803	1	2,803	SALEM	TREE REMOVED AND SERVICE REPAIRED AT THERIAULT AVE	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
98	45085	13L3	3/8/2018	1562	13	20,306	SALEM	BLOWN FUSE P9 MEISNER RD DUE TO FALLEN TREE.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
99	45179	13L3	3/9/2018	3126	1	3,126	SALEM	REHUNG SERVICE WIRES AT ROYAL CIR DUE TO BROKEN LIMB	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
100	45243	13L3	3/9/2018	3374	1	3,374	SALEM	SERVICE REHUNG FROM P3 MCLAUGHLIN AVE - LRG TREE FELL	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
101	45311	13L3	3/9/2018	3241	1	3,241	SALEM	SERVICE REHUNG FROM P2 PARK AVE - TREE LIMB	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
102	45416	13L3	3/9/2018	1528	1	1,528	SALEM	REHUNG SERVICE P11 GENERAL PULASKI DR - BRANCH	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
103	45482	13L3	3/9/2018	281	58	16,298	SALEM	BLOWN 65K FUSE P26 BRIDGE ST - TREE FELL MATTHIAS ST	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
104	45482X	13L3	3/8/2018	1723	758	1,306,034	SALEM	PTR 701225 LOCKED OUT, P4 BRIDGE ST , SALEM. CAUSE: MULTIPLE LIMBS ALONG BRIDGE ST AND WHEELER AVE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
105	45962	13L3	3/9/2018	1392	1	1,392	SALEM	REHUNG SERVICE P11 PALOMINO RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
106	46688	18L2	3/9/2018	1687	121	204,127	SALEM	MANUALLY OPENED 80K LINE FUSE P1 SALEM ST - REPAIRS NEEDED AT P16 SALEM ST	Unknown	2-Wind-Strong (32-54 mph)	7-Snow-wet
107	46629	14L1	3/8/2018	1023	1851	1,893,573	PELHAM	14L2 BREAKER LOCKED OUT DUE TO MULTIPLE FALLEN TREES	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
108	46677	14L1	3/8/2018	2734	217	593,278	PELHAM	BLOWN 65K FUSE P47 DUTTON RD - BROKEN P20 SPRING - REPLACED 25KVA XFMR - MULTIPLE TREES	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
109	46703	14L1	3/9/2018	1740	62	107,880	PELHAM	BLOWN 25KV LINE FUSE P42 JERICO RD - MULTIPLE TREES ON HILLCREST	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
110	46766	14L1	3/10/2018	255	1	255	PELHAM	CREWS MADE REPAIRS TO BROKEN HOUSE SERVICE FROM P3 APPALOOSA	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
111	46767	14L1	3/10/2018	255	6	1,530	PELHAM	REPAIRED SECONDARY WIRES AT POLE 7 APPALOOSA AVE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
112	42715	14L3	3/7/2018	1985	140	277,900	PELHAM	40 K LINE FUSE OPENED P24 WINDHAM RD * TREE REPAIRS ON SIMPSON RD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
113	42848	14L3	3/7/2018	3674	1158	3,005,552	PELHAM	PTR 704057 LOCKED OUT. MULTIPLE TREE LIMBS ALONG TALLANT RD / MAMMOTH RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
114	45943	14L3	3/7/2018	2725	321	874,725	PELHAM	MANUALLY OPENED PTR 704072 DUE TO POLE FIRE @ P38 WINDHAM RD, PELHAM. PHASE OFF PIN	Device Failed	2-Wind-Strong (32-54 mph)	7-Snow-wet
115	46195	14L3	3/7/2018	3786	41	155,226	PELHAM	BLOWN 40K FUSE P86 BRIDGE ST - MULTIPLE TREES/BRANCHES ON BALCOM RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
116	46755	14L3	3/10/2018	687	3	2,061	PELHAM	TWO SPANS SERVICE REHUNG FROM P8 SIMPSON RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
117	46757	14L3	3/10/2018	1144	1	1,144	PELHAM	SERVICE REHUNG FROM P2-1 KEYES HILL RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
118	46810	14L3	3/11/2018	408	28	11,424	PELHAM	BLOWN 25K FUSE P1 CASTLE HILL RD WINDHAM DUE TO LIMB P3 CASTLE HILL RD.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
119	46848	14L3	3/11/2018	236	1	236	PELHAM	P5 HOBBS RD, CLEARED TREE - REATTACHED SERVICE WIRE	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
120	45244	14L4	3/7/2018	2206	131	288,986	PELHAM	PRIMARY DOWN P26 WEBSTER AVE. FUSES OPEN P63 BRIDGE ST.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
121	45245	14L4	3/7/2018	2261	29	65,569	PELHAM	OPEN 25AMP LINE FUSE AT P63 BRIDGE ST / DUE TO PRIMARY DOWN AT P9, P10, AND P11 SURREY LN	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
122	45246	14L4	3/7/2018	2466	185	456,210	PELHAM	MANUAL OPENED LINE FUSE P8 YOUNGS CROSSING RD / DUE TO MULTIPLE TREE CONTACTS	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
123	45248	14L4	3/7/2018	2234	16	35,744	PELHAM	MANUALLY OPENED FUSE FEEDING PLOWER RD // CAUSE - MULTIPLE TREE CONTACTS	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
124	45250	14L4	3/7/2018	2311	83	191,813	PELHAM	BLOWN 40K SIDE TAP FUSE P49 BRIDGE ST/ TREE ON PRIMARY P3 WHEATON DRIVE /	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
125	45252	14L4	3/7/2018	2450	216	529,200	PELHAM	BLOWN 40 AMP LINE FUSE -P35 BRIDGE ST - DUE TO MULTIPLE TREE CONTACTS IN AREA OF OLD-GAGE AND LEDGE RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
126	45253	14L4	3/9/2018	145	114	16,530	PELHAM	3 BLOWN 65K FUSES AT P63 BRIDGE ST PELHAM. TREE AT P80 WEST.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
127	45254	14L4	3/7/2018	2251	69	155,319	PELHAM	FUSE FEEDING ORCHARD LANE, ST MARGERETS DR OPEN [P1 ORCHARD LANE, PELHAM]. CAUSE: TREES & WIRES DOWN	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
128	45991	14L4	3/10/2018	797	1	797	PELHAM	REHUNG SERVICE P49-3 OLD GAGE HILL- TREE LIMBS	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
129	46802	14L4	3/11/2018	162	1	162	PELHAM	SERVICE REATTACHED FROM P14 KENNEDY DR	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
130	45051	18L3	3/8/2018	4027	1	4,027	SALEM	SERVICE RESTORED FROM P36 PELHAM RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
131	45405	18L3	3/9/2018	3277	1	3,277	SALEM	NEW SERVICE RUN FROM P40 PELHAM RD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities
2018 Storm Fund Report
Attachment 5
Page 5 of 6

	ID	Feeder	Date	Duration	CI	CMI	Town	Comments	Cause	Wind	Weather
132	42618	18L4	3/7/2018	625	365	228,125	SALEM	PTR 701187 P47 PELHAM RD LOCKOUT DUE TO FALLEN TREE LIMBS ALONG PELHAM RD. MANUALLY OPENED P21 BRADY AVE - CAUSE: WIRES DOWN P16 BRADY DUE TO TREE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
133	45075	18L4	3/8/2018	1763	60	105,780	SALEM	BLOWN 40K LINE FUSE P8 LOWELL RD TREE PULLED SERVICE DOWN HOUSE 57 DAISY OFF P6-1 LAUREL	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
134	45110	18L4	3/8/2018	2185	83	181,355	SALEM	BLOWN 40K LINE FUSE P34 LOWELL RD. TREE LIMB FELL ON PRIMARY BETWEEN P34 LOWELL RD AND POLE 1 QUILL LANE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
135	45251	18L4	3/8/2018	3525	1	3,525	SALEM	RESTORED SERVICE WIRES FROM P15 BRADY AVE	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
136	45256	18L4	3/8/2018	2444	106	259,064	SALEM	BLOWN FUSE P64 BROOKDALE RD AND BRADY AVE LIMBS ON BROOKDALE RD BETWEEN POLES 64-63, 61-2 AND 69-68	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
137	45257	18L4	3/8/2018	2336	50	116,800	SALEM	BLOWN FUSE P50 BRADY AVE. LIMBS ON PRIMARY WIRES BETWEEN POLES 51-52. PRIMARY OFF GLASS POLE 75 PELHAM RD. P85 PELHAM RD TREE ON PRIMARY LINES	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
138	45977	18L4	3/10/2018	2406	1	2,406	SALEM	BLOWN 15K TRANSFORMER FUSE P3 SPEARS HILL RD - TREE FELL P3 SPEARS HILL	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
139	42758	10L1	3/8/2018	662	890	589,180	SALEM	10L1 CB LOCKED OUT DUE TO TREE ON PRIMARY P32 & P14 POND ST	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
140	46652	10L1	3/11/2018	170	1	170	SALEM	REATTACHED SERVICE AND ENERGIZED FROM P19 POND ST	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
141	46836	10L1	3/11/2018	174	1	174	SALEM	LIMB ON SERVICE CLEARED P15 CAROL AVE, SALEM TO HOUSE- TRIPLEX REPLACED	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
142	46770	10L2	3/11/2018	419	1	419	SALEM	RECONNECT SERVICE WIRES P33 LAWRENCE RD, SALEM DUE TO TREE LIMB P33 LAWRENCE RD.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
143	45044	10L4	3/8/2018	1254	178	223,212	SALEM	BLOWN 65K FUSE AT P1 LINWOOD RD SALEM MULTIPLE TREES AND CONDUCTORS DOWN ON MULBERRY CYPRESS POPLAR RUTH AND CHESTNUT STREETS	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
144	45045	10L4	3/8/2018	3526	1	3,526	SALEM	LAWRENCE RD SALEM SINGLE CUSTOMER SERVICE LINE CUT FROM POLE.	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
145	45417	10L4	3/9/2018	1607	11	17,677	SALEM	BLOWN 15K TRANSFORMER FUSE P6 CYPRESS ST - TREE FELL - CREW REPLACED 3 SECTIONS OF PRIMARY AND RECONNECTED 4 SERVICES	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet
146	45468	10L4	3/9/2018	1527	1	1,527	SALEM	REHUNG SERVICE P3 BARBARA	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
147	45502	10L4	3/10/2018	199	2	398	SALEM	SERVICE REHUNG P26 BUTLER	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
148	45992	10L4	3/10/2018	416	1	416	SALEM	REHUNG SERVICE OFF P2 RUTH ST - TREE LIMBS	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
149	46821	10L4	3/11/2018	557	1	557	SALEM	TREE LIMB ON SERVICE FROM P2 ROSEWOOD AVE, SALEM. INSTALLED SERVICE WIRES	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
150	46845	10L4	3/11/2018	312	1	312	SALEM	SERVICE DOWN P12 PATTEE RD DUE TO LIMB. RE-HUNG SERVICE WIRES TO 24 PATTEE RD	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
151	43001	12L1	3/8/2018	484	2	968	WALPOLE	BLOWN 25K LINE FUSE P81 VALLEY ROAD / PRIMARY IN CONTACT WITH NEUTRAL P1 EATON RD DUE TO SNOW	Unknown	2-Wind-Strong (32-54 mph)	7-Snow-wet
152	45170	12L1	3/8/2018	154	1216	187,264	WALPOLE	PTR 741026 P100 WHITCOMB RD, WALPOLE LOCKED OUT. CAUSE: TREE LIMB ACROSS 3 PHASES P119 RIVER RD, ALSTEAD.	Tree - Broken Limb	2-Wind-Strong (32-54 mph)	7-Snow-wet
153	45242	16L5	3/9/2018	826	1	826	LEBANON	BLOWN 15K LINE FUSE P8 DOROTHY PERLEY RD - TREE FELL BETWEEN P8 AND P9 DOROTHY-PERLEY RD	Tree Fell	2-Wind-Strong (32-54 mph)	7-Snow-wet



Robert Johnson Jr. - NH

From: DTN <EnergyEventIndex@dtn.com>
Sent: Monday, March 12, 2018 4:05 PM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 4

Energy Event Index for ALGONQUIN POWER

Your forecast administrator: robert.mercier@libertyutilities.com

Valid Time: March 12, 2018 4:00 PM EDT

Forecaster: kristin.haugen

Parameter	Region	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Wind Speed	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Wind/Gust	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Snow	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	3	3	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	4	4	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	4	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	3	1	1	1	1	1	1	1	1
Ice	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Confidence Level	Montauk NY	High	High	High	High	High	High	High	High	High	High
	Northern Lebanon Hanover NH	High	High	High	High	High	High	High	High	High	High
	Northwest Monroe Bath NH	High	High	High	High	High	High	High	High	High	High
	Southern Salem Derry NH	High	High	High	High	High	High	High	High	High	High
	Western Alstead Charlestown NH	High	High	High	High	High	High	High	High	High	High

Energy Event Index Definition

No Leaves (Nov 1 - Mar 31)

EEI	Wind Speed	Wind/Gust	Snow	Ice
1	< 40 mph	< 45 mph	< 6 in.	< 1/10 in.
2	>= 40 mph	>= 45 mph	>= 6 in.	>= 1/10 in.
3	>= 50 mph	>= 55 mph	>= 8 in.	>= 3/8 in.
4	>= 60 mph	>= 70 mph	>= 12 in.	>= 1/2 in.
5	>= 70 mph	>= 85 mph	>= 24 in.	>= 1 in.

Confidence Level	
Low	<30% chance the most likely index level remains at that level through the event
Medium	30-60% chance the most likely index level remains at that level through the event
High	>=60% chance the most likely index level remains at that level through the event

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Go to [WeatherSentry® Online](http://WeatherSentry.com) for a complete view of the forecast and other business critical weather information.

Please do not respond to this email.

STORM PLANNING REPORT

DATE: Tuesday, March 13, 2018

TIME: 4:00 PM Winter Storm Skylar

	<u>Lebanon</u>	<u>Salem</u>	<u>Charlestown</u>	<u>Comments</u>	
Weather Forecast	Snow to begin this evening after 12 am and continue through Tuesday evening. Snow consistency Normal 9” to 12” expected. Winds 25 to 35 MPH.	Snow to begin this evening after 12 am and continue through Tuesday evening. Snow consistency Wet in the am but expected to turn Normal 13” to 18” expected. Wind 35 to 45 MPH.	Snow to begin this evening after 12 am and continue through Tuesday evening. Snow consistency Normal 9” to 12” expected. Winds 25 to 35 MPH.	Wind will remain gusty into Wednesday	
Anticipated EERP Event Type	Type 3	Type 3	Type 3		
Resources - *only 9 internal crews due to vacancies and injuries/light duty.				Totals	Customer service will staff through 9:00 pm 3/13 and will extend if needed. Gas OPs wires down and damage assessors will be available through the event.
Internal Crews	2.5	5.5	1	9	
Contractor Crews	2	8		10	
Total Line Crews available	4.5	13.5	1	19	
Tree Crews	1	20	1	22	
Wires Down	Will be staffed	Will be staffed	Will be staffed		
Other Support	Will be staffed	Will be staffed	Will be staffed		
LU Storm Room Status	N/A	N/A	N/A		
LU Municipal Room Status	Closed	Closed			
Customer Outage Count	N/A	N/A	N/A		
Estimated Date/Time for Total Restoration	N/A	N/A	N/A		
Planned Storm Conference Calls	Next Call 3/13 – 10:00 am Next Call 3/13 - 4:00 pm Next Call 3/14 – 10:00 am				
Notifications w/ Regulators. NHPUC/NH	Planning Report				
EII Event Index & Storm Accounting	Description	GP Expense Job	GP VM Job		
	EII – Level 3High Confidence	STORM-EXP-1808	STORM-VGMT-1808		

Robert Johnson Jr. - NH

From: DTN <EnergyEventIndex@dtn.com>
Sent: Wednesday, April 04, 2018 4:05 PM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 2

Energy Event Index for ALGONQUIN POWER

Your forecast administrator: robert.mercier@libertyutilities.com

Valid Time: April 4, 2018 4:00 PM EDT

Forecaster: allan.persons

Parameter	Region	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Wind Speed	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Wind/Gust	Montauk NY	2	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	2	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	2	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	2	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	2	1	1	1	1	1	1	1	1	1
Snow	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Ice	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Confidence Level	Montauk NY	High	High	Medium	Medium	High	High	High	High	High	High
	Northern Lebanon Hanover NH	High	High	Medium	High	High	High	Medium	Medium	High	High
	Northwest Monroe Bath NH	High	High	Medium	High	High	High	Medium	Medium	High	High
	Southern Salem Derry NH	High	High	Medium	High	High	High	High	High	High	High
	Western Alstead Charlestown NH	High	High	Medium	High	High	High	Medium	Medium	High	High

Energy Event Index Definition

No Leaves (Nov 1 - Apr 14)

EEI	Wind Speed	Wind/Gust	Snow	Ice
1	< 40 mph	< 45 mph	< 6 in.	< 1/10 in.
2	>= 40 mph	>= 45 mph	>= 6 in.	>= 1/10 in.
3	>= 50 mph	>= 55 mph	>= 8 in.	>= 3/8 in.
4	>= 60 mph	>= 70 mph	>= 12 in.	>= 1/2 in.
5	>= 70 mph	>= 85 mph	>= 24 in.	>= 1 in.

Confidence Level	
Low	<30% chance the most likely index level remains at that level through the event
Medium	30-60% chance the most likely index level remains at that level through the event
High	>=60% chance the most likely index level remains at that level through the event

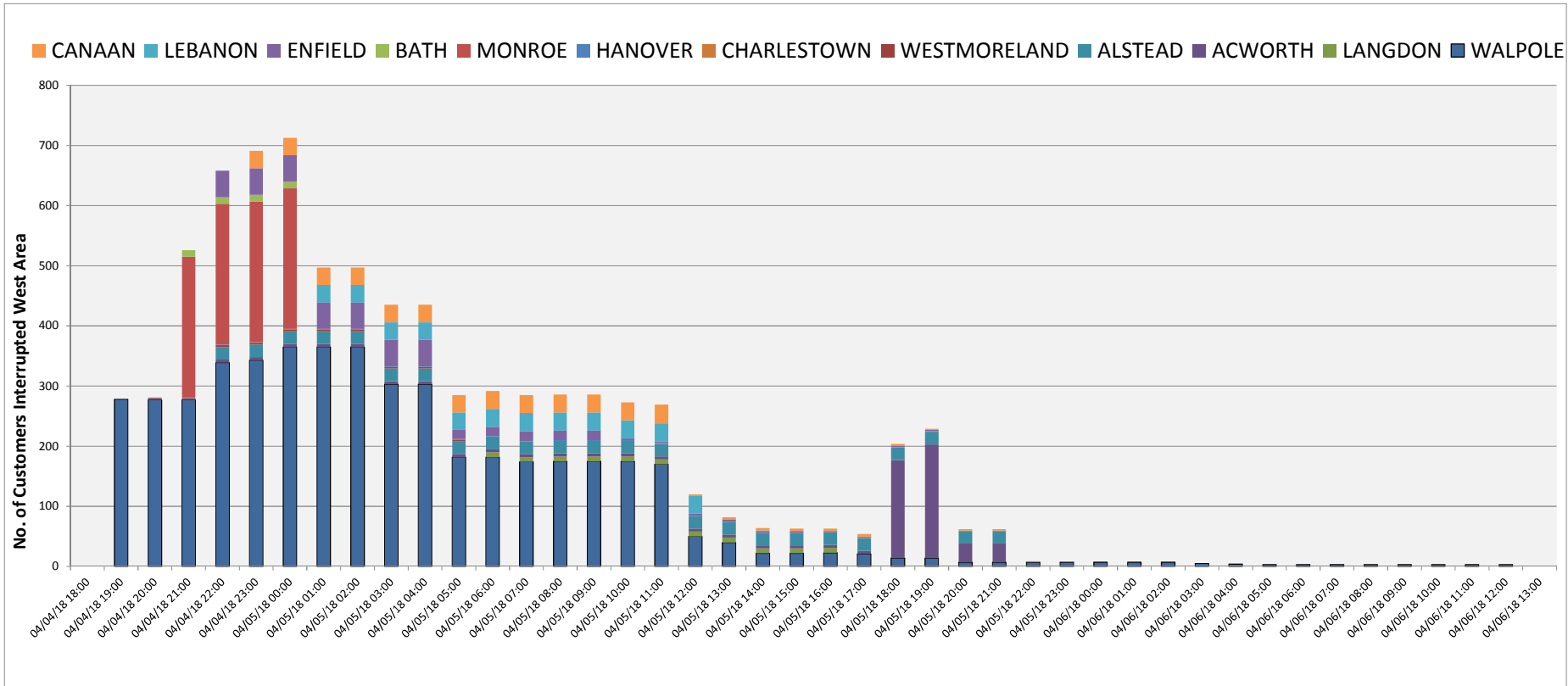
*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

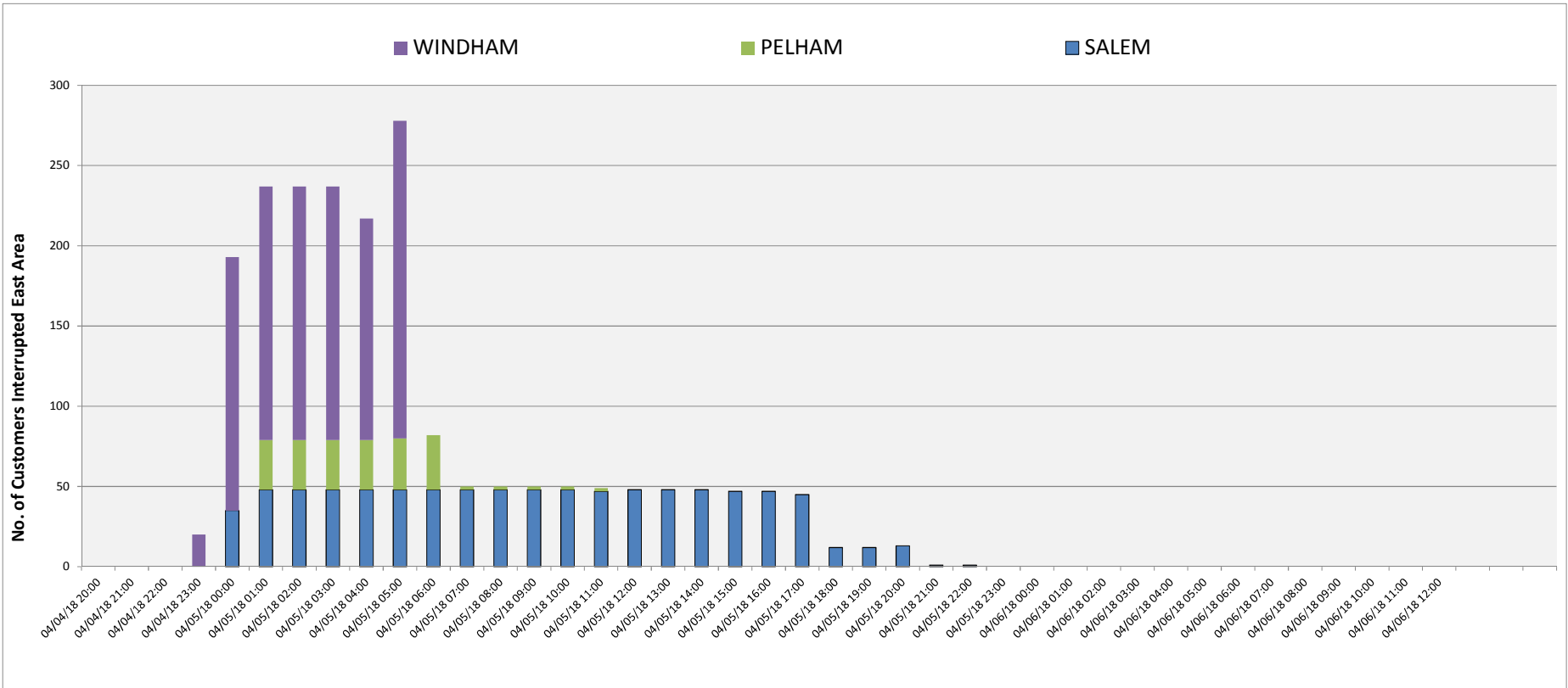
Go to [WeatherSentry® Online](#) for a complete view of the forecast and other business critical weather information.

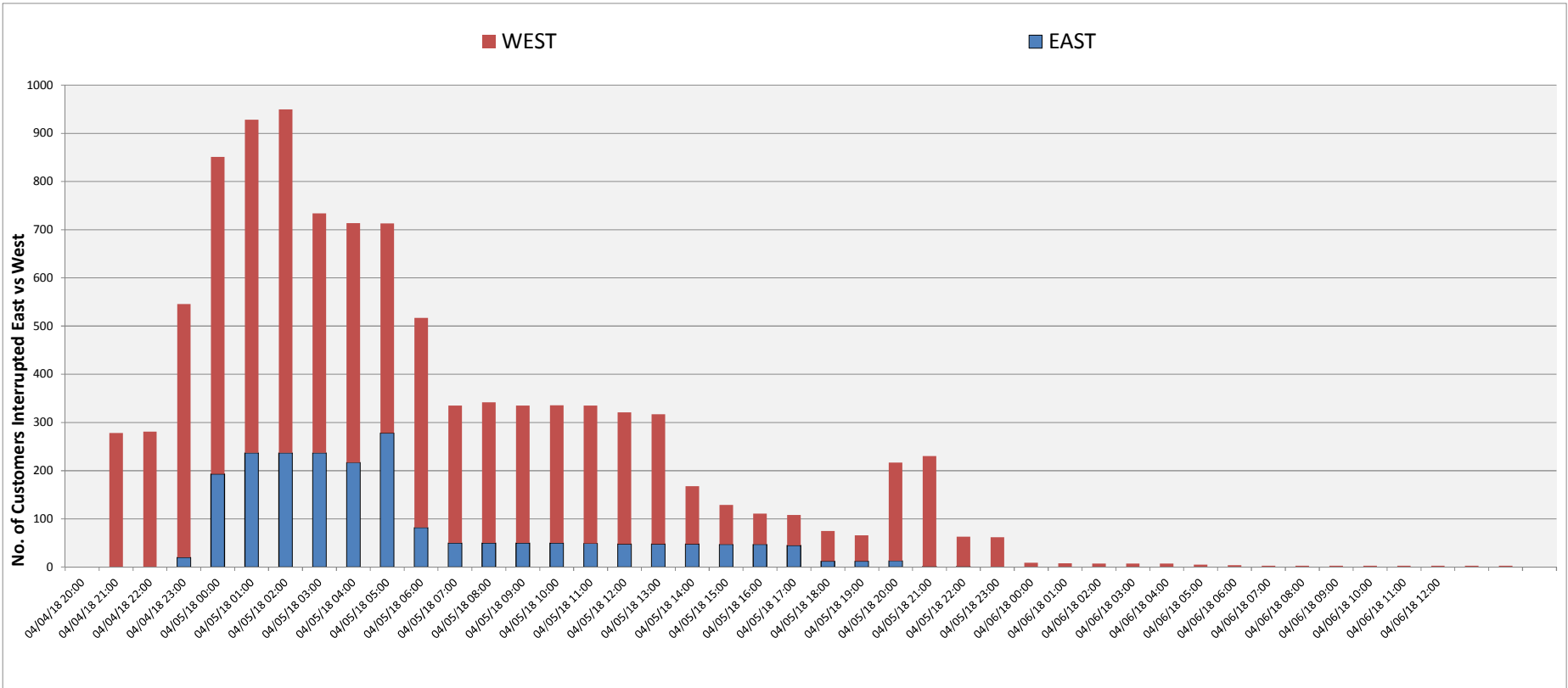
Please do not respond to this email.

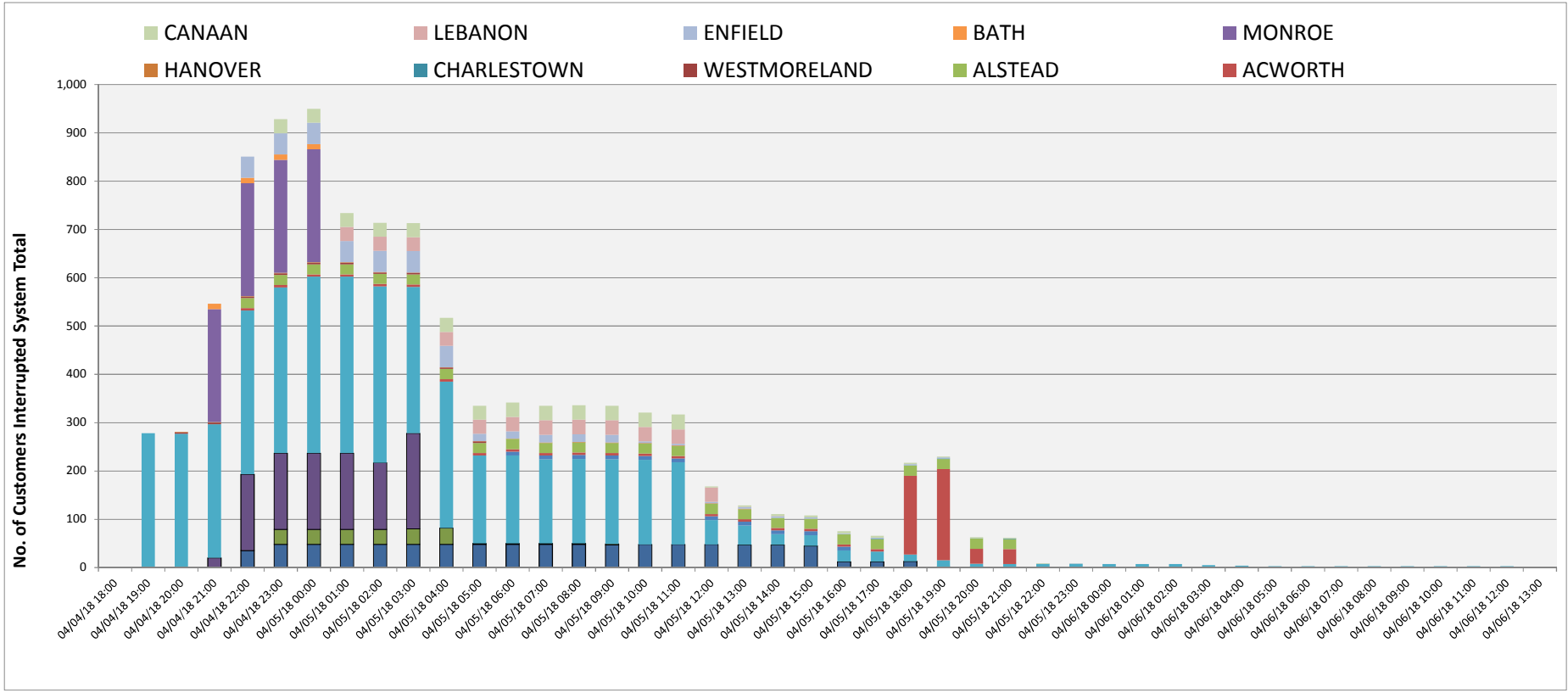
Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities
2018 Storm Fund Report
Attachment 7
Page 2 of 6

	ID	Feeder	Date	From	Duration	CI	CMI	Town	Comments	Cause	District
1	47498	12L2	4/4/2018	19:13	600	242	145,200	WALPOLE	POLE TOP RECLOSER LOCKED OUT P6 WENTWORTH RD DUE TO FALLEN TREES AT POLE 23 WENTWORTH RD.	Tree Fell	Charlestown
2	47507	6L3	4/4/2018	20:13	1033	1	1,033	HANOVER	BLOWN 15K LINE FUSE P193 LYME RD DUE TO FALLEN TREE LIMBS AT P193-2 AND 193-3.	Tree - Broken Limb	Lebanon
3	47514	12L2	4/4/2018	20:00	1845	2	3,690	WALPOLE	BLOWN 3K TRANFORMER FUSE P57 OLD KEENE RD DUE TO FALLEN TREE	Tree Fell	Charlestown
4	47518	15H1	4/4/2018	21:23	168	245	41,160	MONROE	MONROE 15H1 BREAKER LOCKED OUT. CAUSE UNKNOWN	Unknown	Lebanon
5	47523	7L2	4/4/2018	22:06	1300	2	2,600	ENFIELD	RE-ATTACHED SECONDARY WIRES P79 AND 79-1 SHAKER HILL RD DUE TO FALLEN TREE.	Tree Fell	Charlestown
6	47525	9L3	4/4/2018	21:56	243	20	4,860	WINDHAM	BLOWN FUSE P6 JOHNSON RD DUE TO FALLEN TREE BETWEEN P1-2 ROLLING RIDGE RD	Tree Fell	Salem
7	47551	9L3	4/4/2018	22:52	937	2	1,874	SALEM	RE ATTACHED SECONDARY WIRES P11-1 LAKESHORE RD DUE TO FALLEN TREE	Tree Fell	Salem
8	47569	13L1	4/4/2018	22:56	993	33	32,769	SALEM	BLOWN 40K FUSE AT P120 N MAIN DUE TO TREE FALLING BETWEEN P4 AND P5 BALL AVE	Tree Fell	Salem
9	47572	11L1	4/5/2018	6:26	501	1	501	LEBANON	REPAIRED SERVICE WIRES P4 PINE ST DUE TO FALLEN TREE	Tree Fell	Lebanon
10	47576	10L4	4/4/2018	23:35	565	1	565	SALEM	DISCONNECTED SERVICE WIRES FROM P2 TYLER ST DUE TO FALLEN TREE.	Tree Fell	Salem
11	47581	12L1	4/4/2018	22:26	1378	26	35,828	ACWORTH	BLOWN 25K FUSE P50 FORREST RD/ PRIMARY DOWN BETWEEN P60 /P65	Tree Fell	Charlestown
12	47586	14L1	4/4/2018	23:53	293	31	9,083	PELHAM	BLOWN FUSE P30 ATWOOD RD /PHASES B & C / BROKEN INSULATOR	Device Failed	Salem
13	47587	6L3	4/5/2018	1:02	687	29	19,923	LEBANON	REFUSED 40K FUSE AT P48 DUE TO BROKEN POLE AT P11 ON EAST WILDER	Tree Fell	Lebanon
14	47588	12L2	4/5/2018	0:34	356	11	3,916	WALPOLE	BLOWN 25K FUSE P164 COUNTY RD DUE TO FALLEN TREE LIMBS AT WHIPPLE HILL RD	Tree - Broken Limb	Charlestown
15	47589	9L3	4/4/2018	22:47	287	138	39,606	WINDHAM	BLOWN FUSE P26 RANGE RD DUE TO FALLEN TREE BETWEEN P19-20 SEARLES RD	Tree Fell	Salem
16	47590	12L1	4/4/2018	22:16	238	62	14,756	WALPOLE	BLOWN FUSE P1 UPPER WALPOLE RD DUE TO FALLEN TREE BETWEEN P11-12.	Tree Fell	Charlestown
17	47592	9L3	4/5/2018	3:02	43	60	2,580	WINDHAM	BLOWN FUSE P13 W SHORE RD-REMOVED LIMB ACROSS RD BTWN P14-P15	Tree - Broken Limb	Salem
18	47595	14L4	4/5/2018	3:31	54	1	54	PELHAM	SERVICE WIRES DOWN AT P26 LEDGE RD DUE TO FALLEN TREE	Tree Fell	Salem
19	47597	18L2	4/4/2018	23:09	1139	12	13,668	SALEM	REPLACED BROKEN POLE 67 BRADY AVE AND DOWNED POWER LINES BETWEEN P63 AND P67 DUE TO FALLEN TREE	Tree Fell	Salem
20	47600	14L4	4/5/2018	4:31	309	2	618	PELHAM	REPLACED DAMAGED CUTOUT P5-4 LEDGE RD DUE TO FALLEN TREE	Tree Fell	Salem
21	47605	12L2	4/5/2018	5:18	977	7	6,839	WALPOLE	BLOWN FUSE P21 COUNTY RD DUE TO FALLEN TREE AT P2	Tree Fell	Charlestown
22	47606	7L2	4/4/2018	22:31	373	29	10,817	ENFIELD	BLOWN FUSE P45 LOCKHAVEN RD DUE TO FALLEN TREE	Tree Fell	Lebanon
23	47610	7L1	4/5/2018	6:17	655	1	655	CANAAN	REPLACED SERVICE WIRE P2 CARDAVIEW LANE DUE TO FALLEN TREE	Tree Fell	Lebanon
24	47611	12L2	4/5/2018	6:18	147	1	147	WALPOLE	RECONNECTED SERVICE WIRES P24 WENTWORTH RD DUE TO FALLEN TREE	Tree Fell	Charlestown
25	47622	12L1	4/5/2018	6:27	633	8	5,064	LANGDON	BLOWN 25K LINE FUSE P13 CHESHIRE TPKE DUE TO FALLEN TREE AT P7 RUSSELL RD	Tree Fell	Charlestown
26	47629	7L2	4/5/2018	7:31	496	1	496	ENFIELD	RE-HUNG SERVICE WIRES P6 WESCOTT RD DUE TO FALLEN TREE LIMB.	Tree - Broken Limb	Lebanon
27	47640	7L1	4/4/2018	22:36	971	31	30,101	CANAAN	BLOWN FUSE P98 SOUTH RD DUE TO FALLEN TREE.	Tree Fell	Lebanon
28	47642	7L1	4/4/2018	22:36	779	29	22,591	CANAAN	BLOWN FUSE P2 PROSPECT HILL RD DUE TO FALLEN TREE BETWEEN P11-12	Tree Fell	Lebanon
29	47652	12L1	4/5/2018	8:41	464	1	464	WALPOLE	REPAIRED SERVICE WIRES P12-84 UPPER WALPOLE RD DUE TO FALLEN TREE	Tree Fell	Charlestown
30	47656	12L1	4/5/2018	6:26	769	7	5,383	WALPOLE	BLOWN FUSE P14 COUNTY RD DUE TO FALLEN TREE AT BREWERY RD	Tree Fell	Charlestown
31	47660	12L2	4/4/2018	23:01	779	22	17,138	WALPOLE	BLOWN 25K FUSE P20 RAMSEY HILL RD DUE TO FALLEN TREE LIMB	Tree - Broken Limb	Charlestown
32	47661	12L2	4/5/2018	9:00	461	1	461	WALPOLE	REPAIRED SERVICE WIRES P13 SOUTH RD DUE TO FALLEN TREE	Tree Fell	Charlestown
33	47664	7L2	4/4/2018	22:59	661	13	8,593	ENFIELD	BLOWN FUSE P15-50 OAKHILL RD/LOCKHAVEN /TREE DAMAGE	Tree Fell	Lebanon
34	47667	12L1	4/5/2018	18:03	77	158	12,166	ACWORTH	MANUALLY OPENED TRIP SAVER P123 RT 123 DUE TO FALLEN TREE	Tree Fell	Charlestown
35	47668	12L2	4/5/2018	5:00	350	6	10,556	WALPOLE	BLOWN 40K LINE FUSE P94 HALLS CROSSING DUE TO FALLEN TREE LIMB	Tree - Broken Limb	Charlestown
36	47669	10L1	4/5/2018	10:47	88	1	88	SALEM	RE-ATTACHED PRIMARY WIRES TO DAMAGED CUTOUT AT P6 S BROADWAY	Device Failed	Salem
37	47675	12L2	4/5/2018	11:52	1012	1	1,012	WALPOLE	RE-HUNG SERVICE WIRES P148-1 COUNTY RD DUE TO FALLEN TREE	Tree Fell	Charlestown
38	47678	7L2	4/5/2018	13:08	472	1	472	CANAAN	RE-HUNG SERVICE WIRES P18 MAY ST DUE TO FALLEN TREE	Tree Fell	Lebanon
39	47684	7L1	4/5/2018	14:48	213	1	213	CANAAN	RE-HUNG SERVICE WIRES P106-2 SOUTH RD DUE TO FALLEN TREE	Tree Fell	Lebanon
40	47694	12L2	4/5/2018	16:33	671	1	671	WALPOLE	SERVICE WIRES DOWN P68-1 OLD KEENE RD DUE TO FALLEN TREE	Tree Fell	Charlestown
41	47697	8L1	4/5/2018	17:23	338	1	338	CHARLESTOWN	RE-ATTACHED SERVICE LINES P3-1 EATON ST DUE TO FALLEN TREE LIMB	Tree - Broken Limb	Charlestown
42	47698	13L3	4/5/2018	18:16	111	1	111	SALEM	REPAIRED BROKEN SERVICE WIRE P5 PARK AVE DUE TO FALLEN TREE LIMB	Tree - Broken Limb	Salem
43	47685	12L2	4/4/2018	19:00	210	18	3,780	WALPOLE	BLOWN FUSE P50 RIVER RD DUE TO FALLEN TREE LIMBS	Tree - Broken Limb	Charlestown
44	47632	12L2	4/4/2018	19:13	971	18	17,478	WALPOLE	BLOWN FUSE P135 RIVER RD DUE TO FALLEN TREE LIMBS ALONG SOUTHERN PORTION OF RIVER RD	Tree - Broken Limb	Charlestown
45	47770	12L2	4/5/2018	5:00	480	10	4,800	WALPOLE	BLOWN FUSE P136 RIVER RD SOUTH DUE TO FALLEN TREE LIMBS ALONG NORTHER PORTION OF RIVER RD	Tree - Broken Limb	Charlestown
46	47674	7L1	4/5/2018	11:16	686	1	686	CANAAN	DISCONNECTED SERVICE WIRES FROM P2 FERNWOOD FARMS RD DUE TO FALLEN TREE	Tree Fell	Lebanon
47	47623	12L2	4/5/2018	5:00	309	98	30,282	WALPOLE	TRIP SAVERS P46 WILSON RD LOCKED OUT DUE TO FALLEN TREE LIMBS ALONG WILSON RD AND OLD KEENE RD	Tree - Broken Limb	Charlestown
48	47666	12L2	4/5/2018	0:00	360	11	3,960	WALPOLE	BLOWN 10K LINE FUSE P151 COUNTY RD DUE TO FALLEN TREE LIMBS AT WILLARD SANDS RD	Tree - Broken Limb	Charlestown
49	47625	12L2	4/5/2018	7:17	1772	3	5,316	WALPOLE	BLOWN 25K LINE FUSE P60 WATKINS HILL RD DUE TO FALLEN TREE	Tree Fell	Charlestown









Heather Tebbetts

From: DTN <EnergyEventIndex@dtm.com>
Sent: Sunday, April 15, 2018 8:06 AM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 2

Energy Event Index for ALGONQUIN POWER

Your forecast administrator: robert.mercier@libertyutilities.com

Valid Time: April 15, 2018 8:00 AM EDT

Forecaster: nick.lesser1

Parameter	Region	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Wind Speed	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Wind/Gust	Montauk NY	1	2	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Snow	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	1	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	1	1	1	1	1	1	1	1	1
Ice	Montauk NY	1	1	1	1	1	1	1	1	1	1
	Northern Lebanon Hanover NH	1	2	1	1	1	1	1	1	1	1
	Northwest Monroe Bath NH	1	2	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	1	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	1	2	1	1	1	1	1	1	1	1
Confidence Level	Montauk NY	High	Medium	High	High	High	High	High	High	High	High
	Northern Lebanon Hanover NH	High	Medium	High	High	High	High	High	High	High	High
	Northwest Monroe Bath NH	High	Medium	High	High	High	High	High	High	High	High
	Southern Salem Derry NH	High	Medium	High	High	High	High	High	High	High	High
	Western Alstead Charlestown NH	High	Medium	High	High	High	High	High	High	High	High

Energy Event Index Definition

No Leaves (Nov 1 - Apr 21)

EEI	Wind Speed	Wind/Gust	Snow	Ice
1	< 40 mph	< 45 mph	< 6 in.	< 1/10 in.
2	>= 40 mph	>= 45 mph	>= 6 in.	>= 1/10 in.
3	>= 50 mph	>= 55 mph	>= 8 in.	>= 3/8 in.
4	>= 60 mph	>= 70 mph	>= 12 in.	>= 1/2 in.
5	>= 70 mph	>= 85 mph	>= 24 in.	>= 1 in.

Confidence Level	
Low	<30% chance the most likely index level remains at that level through the event
Medium	30-60% chance the most likely index level remains at that level through the event
High	>=60% chance the most likely index level remains at that level through the event

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Go to [WeatherSentry® Online](http://WeatherSentry.com) for a complete view of the forecast and other business critical weather information.

Please do not respond to this email.

	ID	Feeder	Date	From	Duration	CI	CMI	Town	Comments	Cause	District
1	47821	1L2	4/16/2018	8:53	107	532	56,924	LEBANON	POLE TOP RECLOSER LOCKED OUT P18 SCHOOL ST. CAUSE UNKNOWN	Unknown	Lebanon
2	47848	1L2	4/16/2018	8:53	579	492	284,868	PLAINFIELD	POLE TOP RECLOSER LOCKED OUT P141 CONNECTICUT VALLEY HWY DUE TO FALLEN TREE AND WIRES DOWN BETWEEN POLES 177-182	Tree Fell	Lebanon
3	47850	1L2	4/16/2018	13:35	105	532	55,860	LEBANON	POLE TOP RECLOSER LOCKED OUT P18 SCHOOL ST. DUE TO FALLEN TREE LIMB AT P92 MERIDEN RD.	Tree - Broken Limb	Lebanon
4	47851	1L2	4/16/2018	16:02	138	532	73,416	LEBANON	POLE TOP RECLOSER LOCKED OUT P18 SCHOOL ST. DUE TO FALLEN TREE AT P62 MERIDEN RD.	Tree Fell	Lebanon
5	47835	16L1	4/16/2018	9:03	162	8	1,296	HANOVER	BLOWN 25K LINE FUSE P188 HANOVER CENTER RD DUE TO TREE BETWEEN P7 & P8 THOMPSON RD	Tree - Broken Limb	Lebanon
6	47837	7L2	4/16/2018	10:04	89	2	178	ENFIELD	BLOWN 65K FUSE P21 LOCKEHAVER RD, ENFIELD. CAUSE - TREE DOWN ON WIRES P3 BLOOD RD	Tree Fell	Lebanon
7	47849	7L1	4/16/2018	8:41	116	44	5,104	ENFIELD	BLOWN FUSE P76 POTATO RD DUE TO FALLEN TREE AT P106 POTATO RD	Tree Fell	Lebanon
8	47889	7L1	4/16/2018	8:41	116	1	116	ENFIELD	BLOWN TRANSFORMER FUSE P11 GRAFTON POND RD. CAUSE UNKNOWN	Unknown	Lebanon
9	47857	7L1	4/16/2018	9:27	325	27	8,775	CANAAN	BLOWN 25K LINE FUSE P98 SOUTH RD, MANUALLY OPENED 25K LINE FUSE P121-50 SOUTH RD TO MAKE REPAIRS FROM FALLEN TREE	Tree Fell	Lebanon
10	47863	7L1	4/16/2018	9:27	360	4	1,440	CANAAN	BLOWN TRANSFORMER FUSE P107 SOUTH RD. CAUSE UNKNOWN	Unknown	Lebanon
11	47873	11L1	4/16/2018	11:00	170	82	13,940	LEBANON	FAILED CUOUT TAP (10F3) P12 SEMINARY HILL RD.	Device Failed	Lebanon
12	47874	10L1	4/16/2018	11:27	53	28	1,484	SALEM	BLOWN FUSE P11 CAROL AVE. CAUSE UNKNOWN	Unknown	Salem
13	47881	6L3	4/16/2018	11:57	76	685	52,060	HANOVER	POLE TOP RECLOSER LOCKED OUT P2 S MAIN ST. POLE FIRE AT P121 SOUTH MAIN ST.	Unknown	Lebanon
14	47891	16L1	4/16/2018	12:11	124	9	1,116	HANOVER	BLOWN 25K LINE FUSE P9 RUDSBORO RD DUE TO FALLEN TREE AT P 12 CHANDLER ST	Tree Fell	Lebanon
15	47894	7L1	4/16/2018	13:10	1534	15	23,010	ENFIELD	BLOWN FUSE P28 CHOATE RD - TREE FELL BETWEEN P32-P33 AND AT P39.	Tree Fell	Lebanon
16	47901	16L5	4/16/2018	13:27	1329	1	1,329	LEBANON	REPLACED SERVICE WIRE P6-1 HEATER RD DUE TO FALLEN TREE LIMB.	Tree - Broken Limb	Lebanon
17	47905	12L1	4/16/2018	13:36	198	176	34,848	ALSTEAD	POLE TOP RECLOSER LOCKED OUT P1.5 ACWORTH RD DUE TO FALLEN TREES AT POLE 67 AND POLE 90 ROUTE 123A.	Tree Fell	Charlestown
18	47910	7L1	4/16/2018	11:41	419	45	18,855	ENFIELD	BLOWN 25K LINE FUSE P76 POTATO RD DUE TO FALLEN TREE LIMBS AT P99, P84, P11, P178 POTATO RD. TREE LIMBS ON WIRES AT P14 AND P109 GRAFTON POND RD	Tree - Broken Limb	Lebanon
19	47956	12L2	4/16/2018	13:56	584	195	113,880	WALPOLE	BLOWN 80K LINES FUSES (10F3) AT P43 PROSPECT HILL RD DUE TO FALLEN TREE AT P86 WATKINS HILL RD AND A FALLEN TREE LIMB ON PRIMARY AT P141 WATKINS HILL RD	Tree - Broken Limb	Charlestown
20	47958	12L1	4/16/2018	13:30	1299	4	5,196	ALSTEAD	BLOWN 10K TRANSFORMER FUSE P5 BONNIE BRAE RD DUE TO TREE FALL P2-1 TRIPP LN	Tree Fell	Charlestown
21	47960	12L2	4/16/2018	13:18	641	38	24,358	WALPOLE	BLOWN LINE FUSE P144 COUNTY RD DUE TO FALLEN TREE BETWEEN P1-P2 DERRY HILL RD	Tree Fell	Charlestown
22	47974	16L1	4/16/2018	14:21	1116	86	95,976	HANOVER	BLOWN 40K LINE FUSE P151 HANOVER CENTER RD DUE TO TREE CONTACT BETWEEN P154 AND P155 HANOVER CENTER RD	Tree Fell	Lebanon
23	47980	16L5	4/16/2018	15:58	59	84	4,956	LEBANON	POLE TOP RECLOSER LOCKED OUT P7-3 OLD ETNA RD DUE TO FALLEN TREE P87 RT 120	Tree Fell	Lebanon
24	48018	6L3	4/16/2018	16:07	488	212	85,620	HANOVER	BLOWN 40K LINE FUSES (A & B) P129 LYME RD, HANOVER - MANUALLY OPENED C PHASE FOR REPAIR OF CONDUCTOR - TREE FELL BETWEEN P146 AND 147 LYME RD/PRIMARY DOWN AND BROKEN XARM	Tree Fell	Lebanon
25	48021	12L1	4/16/2018	13:38	262	80	20,960	ACWORTH	BLOWN FUSE P1 HILL RD DUE TO FALLEN TREE.	Tree Fell	Charlestown
26	48023	12L1	4/16/2018	16:52	1307	1	1,307	WALPOLE	MANUALLY DISCONNECTED SERVICE FROM P17 CHESHIRE TPKE FOR REPAIRS	Unknown	Charlestown
27	48025	7L1	4/16/2018	16:27	1142	20	22,840	CANAAN	BLOWN LINE FUSE P43-50 SAWYER HILL RD DUE TO FALLEN TREE AT P56 / BROKEN CROSSARM P74 / PRIMARY DOWN P43-50	Tree Fell	Lebanon
28	48026	12L1	4/16/2018	16:59	38	176	6,688	ALSTEAD	POLE TOP RECLOSER LOCKED OUT (2 OF3) P1-50 ACWORTH RD DUE TO FALLEN REE AT P17 ROUTE 123A	Tree Fell	Charlestown
29	48034	12L1	4/16/2018	16:59	1486	4	5,944	LANGDON	BLOWN 25K LINE FUSE P17 RT 123A DUE TO FALLEN TREE. BROKEN P1 AND 4 SECTIONS OF DOWNED WIRE	Tree Fell	Charlestown
30	48036	7L1	4/16/2018	17:46	1233	1	1,233	CANAAN	REPLACED SERVICE WIRES FROM P42-1 LABRADOR LANE DUE TO FALLEN TREE.	Tree Fell	Lebanon
31	48054	7L1	4/16/2018	16:12	1282	2	2,564	ORANGE	BLOWN 10K XFMR FUSE P66 US RTE 4, ORANGE. CAUSE: TREE ON SECONDARIES AND SERVICE P66-1 US RTE 4	Tree - Broken Limb	Lebanon
32	48072	12L1	4/16/2018	18:16	86	163	14,018	WALPOLE	MANUALLY OPENED DISCONNECT# 741033 P70 VALLEY RD TO SAFELY MAKE REPAIRS - TREE ON PRIMARY BTWN P108-P109 WALPOLE VALLEY RD	Tree Fell	Charlestown
33	48114	39L2	4/16/2018	17:53	397	188	74,636	LEBANON	TRIP SAVER LOCKED OUT P19 POVERTY LANE DUE TO FALLEN TREE AND PRIMARY WIRE DOWN AT P67 POVERTY LANE.	Tree Fell	Lebanon
34	48125	1L2	4/16/2018	18:55	884	17	15,028	PLAINFIELD	BLOWN 40K LINE FUSE P23 HOPKINS RD - LARGE TREE BROKE PRIMARY AND NEUTRAL P21-P22 HOPKINS RD	Tree Fell	Lebanon
35	48137	40L1	4/16/2018	17:51	14	503	7,042	CHARLESTOWN	W-149S LOCKED OUT FROM BELLOW FALLS TO SLAYTON HILL W-149 CB - 40L1 WAS RESTORED REMOTELY VIA 8L1	Unknown	Charlestown
36	48138	40L3	4/16/2018	17:51	16	327	5,232	CHARLESTOWN	W-149S LOCKED OUT FROM BELLOW FALLS TO SLAYTON HILL W-149 CB - 40L3 WAS RESTORED REMOTELY VIA 8L1	Unknown	Charlestown
37	48158	7L1	4/16/2018	19:44	340	11	3,740	ENFIELD	BLOWN 40K LINE FUSE AT P1 OAKHILL/TREE FELL BETWEEN P18 AND P19	Tree Fell	Lebanon
38	48161	1L2	4/16/2018	20:51	1083	1	1,083	LEBANON	RE-ATTACHED SERVICE WIRES P85-2 METHODIST HILL RD DUE TO FALLEN TREE	Tree Fell	Lebanon
39	48163	12L1	4/16/2018	20:58	1006	1	1,006	ALSTEAD	BLOWN FUSE P14 COBB HILL RD DUE TO FALLEN TREE BETWEEN POLE 14 AND 14-1.	Tree Fell	Charlestown

	ID	Feeder	Date	From	Duration	CI	CMI	Town	Comments	Cause	District
40	48164	1L2	4/16/2018	20:51	813	4	3,252	LEBANON	BLOWN 10K TRANSFOMER FUSE P55 MERIDEN RD - TREE FELL	Tree Fell	Lebanon
41	48172	7L1	4/16/2018	23:40	10	69	690	ENFIELD	MANUALLY OPENED LINE FUSE P9 JONES HILL RD TO REMOVE TREE BETWEEN P15-16	Tree Fell	Lebanon
42	48180	7L1	4/17/2018	8:02	494	2	988	ENFIELD	BLOWN 15K LINE FUSE P18 GRAFTON POND RD DUE TO FALLEN TREE BETWEEN P18-19	Tree Fell	Lebanon
43	48182	7L1	4/17/2018	9:23	312	11	3,432	ENFIELD	TREE BTWN P18-P19 OAK HILL RD CLEARED REFUSED 15K LINE FUSE P18 OAK HILL RD	Tree Fell	Lebanon
44	48185	16L1	4/16/2018	17:56	978	1	978	HANOVER	BLOWN 15K FUSE P39 TRESCOTT RD / DUE TO TREE FALLING PRIMARY BROKEN	Tree Fell	Lebanon
45	48186	16L1	4/17/2018	10:23	280	1	280	HANOVER	MADE REPAIRS TO BROKEN SERVICE WIRES P12 THOMPSON RD.	Unknown	Lebanon
46	48187	39L2	4/17/2018	1:10	870	3	2,610	LEBANON	BLOWN 25K LINE FUSE P62 POVERTY LANE DUE TO FALLEN TREE AT POLE 62	Tree Fell	Lebanon
47	48188	39L2	4/17/2018	11:12	79	1	79	LEBANON	RECONNECTED SECONDARY AT POLE 62 POVERTY LANE DUE TO FALLEN TREE.	Tree Fell	Lebanon
48	48189	1L2	4/17/2018	11:04	56	1	56	PLAINFIELD	RECONNECTED SERVICE WIRES P178 ROUTE 120 DUE TO FALLEN TREE	Tree Fell	Lebanon
49	48191	39L2	4/17/2018	12:00	115	1	115	LEBANON	RE HUNG SERVICE CONDUCTORS P101 POVERTY LANE DUE TO FALLEN TREE	Tree Fell	Lebanon
50	48192	7L1	4/17/2018	12:21	9	8	72	CANAAN	MANUALLY DE-ENERGIZED P28 PROSPECT HILL RD TO CLEAR TREE AT DERUSH RD	Tree Fell	Lebanon
51	48195	1L2	4/16/2018	10:39	1574	1	1,574	ENFIELD	RE ATTACHED SECONDARY @ P4 ALFANO DR / RE ATTACHED SERVICE/DUE TO FALLEN TREE	Tree Fell	Lebanon
52	48167	6L3	4/16/2018	11:57	76	1	76	HANOVER	BLOWN FUSES (20F3) P6 SOUTH MAIN ST. CAUSE UNKNOWN	Unknown	Lebanon

