

April 4, 2023

VIA ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

**RE: Docket No. 2509 – Storm Contingency Fund
December 22, 2022 Storm Summary Report**

Dear Ms. Massaro:

In accordance with Rhode Island Public Utilities Commission (“PUC”) Order No. 15360 (August 19, 1997) and paragraph 4(a) of the Joint Proposal and Settlement in Lieu of Comments Submitted by The Narragansett Electric Company¹ and the Division of Public Utilities and Carriers (the “Settlement”) approved by the PUC in Docket No. 2509, I have attached one original and eight copies of Rhode Island Energy’s summary report on the planning and restoration activities associated with the December 22, 2022 storm, which likely will qualify for inclusion in the Company’s Storm Contingency Fund. Paragraph 4(b) of the Settlement requires the Company to file with the PUC within 90 days after the storm a report providing a description of the storm along with a summary of the extent of the damage to the Company’s system, including the number of outages and length of outages.

The Company will file with the PUC a supplemental report detailing the incremental restoration costs caused by the December 22, 2022 storm once the Company accumulates the total costs and completes a final accounting of storm costs.

Thank you for your attention to this matter. If you have any questions, please contact me at 401-578-2700.

Very truly yours,



Celia B. O'Brien

Attachment

cc: Docket No. 2509 Service List
Docket No. D-11-94

¹ The Narragansett Electric Company d/b/a Rhode Island Energy (“Rhode Island Energy” or the “Company”).

Rhode Island Energy

The Narragansett Electric Company

Report on December 22 Storm, Damage Assessment and Service Restoration

April 4, 2023

Docket No. 2509

Submitted to:
Rhode Island Public Utilities Commission

Submitted by:



Rhode Island Energy™

a PPL company

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**REPORT ON BEHALF OF
THE NARRAGANSETT ELECTRIC COMPANY D/B/A RHODE ISLAND ENERGY
ON THE DECEMBER 22, 2022 STORM DAMAGE ASSESSMENT AND SERVICE
RESTORATION EFFORTS**

I. EXECUTIVE SUMMARY

The Narragansett Electric Company d/b/a Rhode Island Energy (“Rhode Island Energy” or the “Company”) presents the following report on the planning and restoration activities associated with the December 22, 2022 storm (the “Storm”), which impacted Rhode Island and other states in the northeast. For pre-planning purposes, the Company classified the Storm as a Rhode Island Energy Type 3 emergency event, meaning that the Company estimated that restoration activities generally would be accomplished within a 72-hour period and the event typically would result in up to 28 percent of customers interrupted at peak. The Storm was projected to bring hazardous and strong wind gusts, especially along the coast, which potentially could cause damage to the Company’s electric infrastructure. The Storm interrupted power to 48,460 (approximately 11,818 at peak) of the Company’s customers. Overall, 9.67 percent of the Company’s customers in Rhode Island experienced outages, with 37 of the 38 communities served in Rhode Island impacted.

The Company began monitoring the Storm on the morning of Monday, December 19, 2022, as initial weather forecasts identified a strong system approaching from the southwest. The event was expected to impact much of the northeast US and mid-Atlantic states. Throughout the week, the Company continued to review the weather forecasts and prepare for the possibility that the Storm would damage the Company’s electric distribution system.

The Company began preparing for the Storm on Monday, December 19, 2022, at 3 p.m., by conducting an Operations Planning Call, during which the Company reviewed the weather forecast and began preparing for the possibility that the Storm would impact the Company’s electric distribution system. The Company held its first Pre-Event Stage Briefing Call on December 21, 2022 at 3 p.m. As part of its response to the Storm, the Company opened the Storm Room in Providence at approximately 6:00 a.m. on Friday, December 23, 2022. The first Restoration Stage Briefing Call was held on December 23, 2022, at 9:00 a.m., where the Company established the operational period objectives including safety, restoration, and communication requirements. The second and final Restoration Stage Briefing Call was held on December 24, 2022, at 10:30 a.m., where the event’s final objectives were determined for the remaining restoration effort.

The Company followed its Emergency Response Plan and mobilized employees and contractors for the restoration using a damage forecast based on its experience in previous storms. As part of its preparation efforts, the Company also utilized contractors from outside the Company’s service territory to help with restoration. Using its own crews and contractor resources, the Company restored power to 100 percent of its customers impacted in approximately 65.5 hours from the time of the first customer outage. From the time of peak customers impacted, the Company restored 95 percent of the outages in 29 hours. Power was restored to the final customer impacted by the Storm on Sunday, December 25, 2022, at approximately 5:18 p.m.

The Company is grateful for the support of customers, employees, state and local officials, and public safety officials, who experienced the effects of the Storm and were an integral part of the Company's restoration efforts.

II. INCIDENT ANTICIPATION

A. Determination of Incident Classification

As set forth in the Company's Emergency Response Plan, factors considered in initially establishing or revising the expected incident classification level included the following:

- Expected number of customers without service;
- Expected duration of the restoration event;
- Recommendations of the State Planning Section Chief, Transmission and Distribution Control Centers, and other key staff;
- Current operational situation (such as number of outages, resources, and supplies);
- Current weather conditions;
- Damage appraisals;
- Forecasted weather conditions;
- Restoration priorities;
- Forecasted resource requirements; and
- Forecasted scheduling and pace of restoration work crews.

The Incident Commander is primarily responsible for establishing the projected and actual incident classification level for the Storm. See Table 1 below for Incident Classification Actions.

Table 1. Incident Classification Actions

Action Performed	Date and Time
Incident Commander Named	December 21, 2022; approx. 3:00 p.m.
Initial Event Classification Type – 3	December 21, 2022; approx. 3:00 p.m.

B. Activation of Incident Command System

The Company utilizes the Incident Command System ("ICS"), a component of the National Incident Management System, which is a comprehensive national approach to incident management applicable at all levels of the Company's Emergency Response Organization ("ERO") and addresses the operation of Company Emergency Operation Centers ("EOCs"). The ERO required to implement the emergency procedures is activated employing a flexible and standardized management structure. Upon declaration of an emergency, the required EOCs are staffed accordingly. Briefings are conducted with the ERO to maintain situational awareness and relay the specifics of the emergency. See Table 2 below for the Storm ICS Actions.

Table 2. ICS Actions

Actions Performed	Date and Time
Pre-Event Briefing #1	December 21, 2022; approx. 3:00 p.m.
Storm Room opened in Providence	December 23, 2022; approx. 6:00 a.m.
Wires Down Room opened in Providence	December 23, 2022; approx. 7:00 a.m.
Municipal Room opened in Providence	December 23, 2022; approx. 7:00 a.m.
Restoration Stage Briefing #1	December 23, 2022; approx. 9:00 a.m.
Restoration Stage Briefing #2	December 24, 2022; approx. 10:30 a.m.

C. Determination of Crew Needs and Pre-Staging

Given the potential magnitude of the Storm and forecast of hazardous winds, the Company secured crews in advance from its contractors of choice and other outside contractors to support restoration efforts as part of its regional preparation for the Storm, consistent with its Emergency Response Plan.

See Appendix B for a daily accounting of resource staffing levels from pre-event through complete restoration. Appendix B indicates the number, type, and location of planned resources and the number, type, and location of actual resources secured. Appendix B also specifies whether the resources are internal, external contractors, or resources acquired through a mutual assistance agreement.

III. THE STORM AND ITS IMPACT

A. Forecast

The Company began monitoring the Storm on the morning of Monday, December 19, 2022, as initial weather forecasts identified a newly forming weather pattern that was expected to impact the much of the northeast and mid-Atlantic US, during the upcoming holiday. Throughout the week, the Company continued to review the weather forecasts and prepare for the possibility that the Storm would impact the Company's electric distribution system.

On December 21, 2022, the forecasts continued to caution that the Storm could bring hazardous wind gusts to the state, especially along the coasts. Peak gusts of up to 65 mph were anticipated, strongest along the coasts. Because of the strong winds, some coastal flooding was expected with up to 1-1.5 inches of rain also saturating the ground and waterways and up to 2 inches of rain in isolated areas. The forecast cautioned to expect a rapid temperature drop from the 50 degree range to the 20 degree range over a period between Saturday, December 24, and Sunday, December 25.

By December 22, 2022, confidence of the expected event had increased, with peak gusts expected to be between 60-65 mph for Rhode Island starting later in the evening on December 22, 2022. The forecast continued to warn of the severe temperature drop that was expected to occur

during the evening hours on Saturday, December 24, 2022, going from 50 to 20 degrees, along with near sub-zero wind chills. The forecast indicated that there was a high chance that the rain would freeze, bringing with it more outages. As a result the forecast, the Company completed the final plans to prepare for the oncoming weather event.

B. Impact

The Storm was a long duration weather event that resulted in moderate damage to the Company's electrical system. The Storm brought heavy rain and strong wind gusts to the state, along with a sharp drop in temperatures as expected. Peak wind gusts were generally in the 40-45 mph range, with Providence experiencing a peak gust of 64 mph, with 1.5 inches of rain accumulated. The Town of Tiverton was affected most heavily with approximately 81 percent of customers impacted by the event. See Table 3 below for the Storm impact.

Table 3. Storm Impact

Total Customers Impacted	48,460
Peak Customers Impacted	11,818
Date and Time of Peak	December 23, 2022; 8:19 a.m.
Date and Time Final Customer Was Restored	December 25, 2022; 5:18 p.m.
Number of Municipalities That Experienced Interruptions	37
Number of Distribution Feeders That Experienced Interruptions	110

Figure 1 below shows the number of customers interrupted and restored, by hour, for the period of December 22-26, 2022.

Figure 1

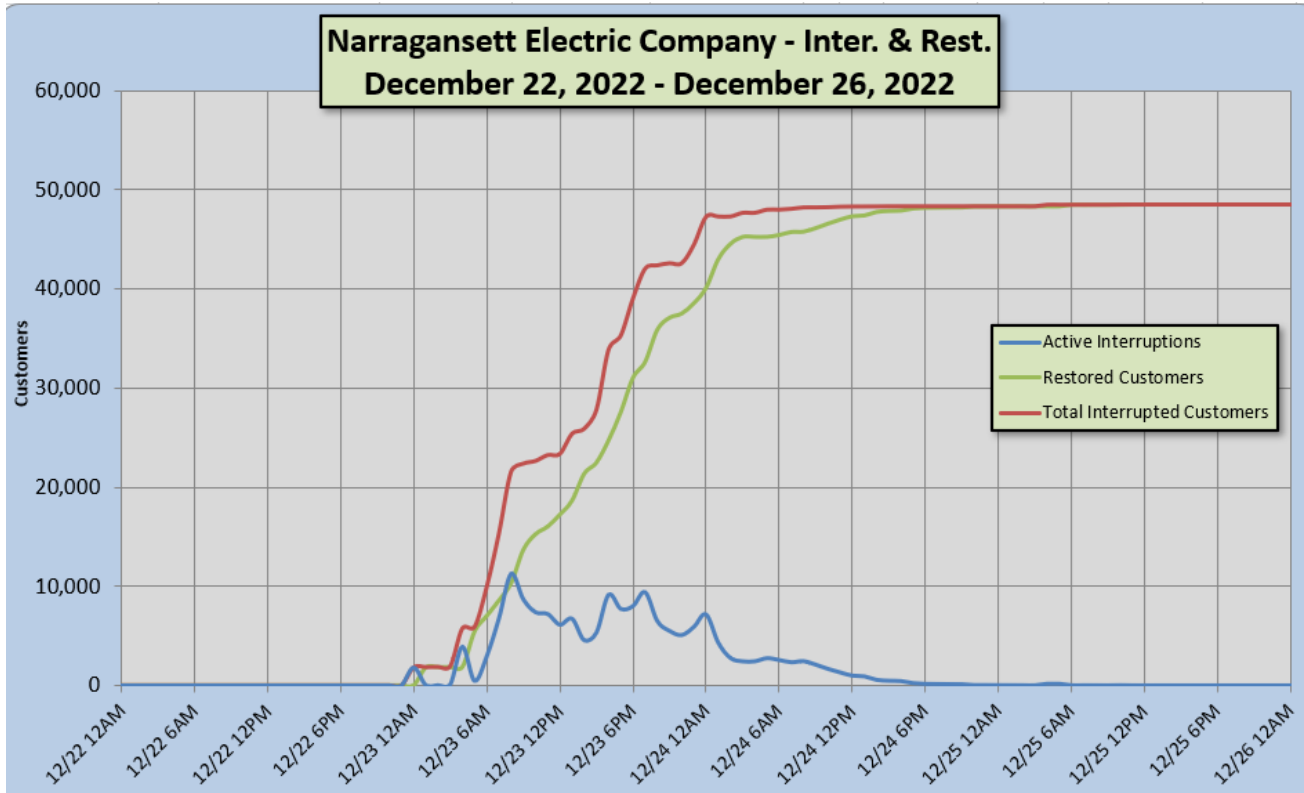


Figure 2 below shows all municipalities that experienced interruptions during the Storm.

Figure 2

Municipality Name	Customers Served	Total Customers Interrupted	Percent of Total
BARRINGTON	6,896	2,229	32.32%
BRISTOL	10,442	3,175	30.41%
BURRILLVILLE	2,648	513	19.37%
CHARLESTOWN	5,877	280	4.76%
COVENTRY	14,369	4,378	30.47%
CRANSTON	31,787	3,162	9.95%
CUMBERLAND	15,665	5,016	32.02%
EAST GREENWICH	6,307	1,041	16.51%
EAST PROVIDENCE	22,437	63	0.28%
EXETER	3,081	1,883	61.12%
FOSTER	2,055	486	23.65%
GLOCESTER	4,711	732	15.54%
HOPKINTON	3,986	150	3.76%
JAMESTOWN	3,362	2	0.06%
JOHNSTON	14,006	761	5.43%
LINCOLN	10,328	2,517	24.37%
LITTLE COMPTON	2,625	89	3.39%
MIDDLETOWN	8,471	1,659	19.58%
NARRAGANSETT	10,587	1,772	16.74%

Municipality Name	Customers Served	Total Customers Interrupted	Percent of Total
NEWPORT	14,860	648	4.36%
NORTH KINGSTOWN	13,981	2,519	18.02%
NORTH PROVIDENCE	16,106	83	0.52%
NORTH SMITHFIELD	5,860	831	14.18%
PAWTUCKET	33,921	1,169	3.45%
PORTSMOUTH	9,329	242	2.59%
PROVIDENCE	74,819	922	1.23%
RICHMOND	3,668	1,745	47.57%
SCITUATE	4,638	1,189	25.64%
SMITHFIELD	9,090	156	1.72%
SOUTH KINGSTOWN	15,099	2,778	18.40%
TIVERTON	8,317	6,799	81.75%
WARREN	6,095	271	4.45%
WARWICK	40,509	753	1.86%
WEST GREENWICH	2,841	1,192	41.96%
WEST WARWICK	14,514	441	3.04%
WESTERLY	14,546	1,830	12.58%
WOONSOCKET	18,713	159	0.85%

The following sections contain additional details and context regarding the Company's Storm restoration efforts.

IV. RESTORATION

A. Timing and Priority of Service

The Company implemented the system of prioritization for restoration found in its Emergency Response Plan, focusing first on public safety and then on customer interruptions that maximized restoration when lines were energized. The Company gave priority and consideration to critical facilities and concentrated efforts to restore service to any life support customers the Company was aware of who were impacted by the Storm as quickly as conditions warranted.

See Appendix C for a timeline of the storm progression, including the hour and date that constitutes the start of restoration and the hour and date that constitutes complete restoration. Hourly chronological restoration assessment in this appendix includes number of customers out (in executable format) for the Company's Capital and Coastal regions, the total system, and each feeder affected.

See Appendix D for a summary of number of customer outages at peak and customer outage minutes, by cause, for the Company's Capital and Coastal regions.

See Appendix E for a specific list of all outages, in executable format, that includes detailed information for each outage. Also included in Appendix E is a listing of all outages caused by tree conditions as well as data regarding asset replacements for this event.

B. Restoration Coordination

The Company dispatched crews to respond to outages from the Storm Room in Providence as soon as it opened (see Table 2 above) through the end of the Storm. Consistent with the Emergency Response Plan, the Company activated Police and Fire Coordinators for the Storm. These employees reported to the Storm Room Leads and were responsible for communicating the estimated times of arrival on all police and fire calls, with a standby condition noted. The Company did not deploy Task Force teams for this event.

The Company also established a staging site to support restoration across the state at Community College of Rhode Island in Warwick. On December 23, 2022, at approximately 7:00 a.m., the Company also mobilized the Providence wires-down room, with approximately 50 internal wires down resources available, including wires-down appraisers, cut and clear restoration resources, and stand-by resources.

C. Personnel Resources

As part of its planning process, the Company prepared for a Type 3 event in Rhode Island based on the weather forecasts, resources, and operational situation. The Company's plan remained consistent throughout the Pre-Event Stage Briefing Call on December 21, 2022 as well as both Restoration Stage Briefing Calls on December 23, and December 24, 2022.

The Company secured a total of 331 internal and external field crews¹ to restore power to customers in Rhode Island, consisting of approximately 192 external crews and 139 internal crews. The internal and external field crew numbers included transmission and distribution overhead line, forestry, substation, underground, wires down, and damage assessment personnel.

See Appendix B for a daily accounting of resource staffing levels from pre-event through complete restoration.

The Incident Commander for Rhode Island Energy did request mutual assistance from companies in the North Atlantic Mutual Assistance Group ("NAMAG") to support restoration for this event. On the morning of December 21, 2022, the Company requested 100 line workers to support anticipated restoration efforts. Because of the anticipated large geographic impact of the Storm, no adjacent NAMAG members were able to support the request.

On the afternoon of December 23, 2022, the Company also conducted an internal resource coordination call with its affiliated operating companies in Pennsylvania and Kentucky. During this meeting, the Company and its affiliates shared current system impacts, restoration objectives, and opportunities to meet additional resource requirements, independent of the NAMAG.

The Company later withdrew its request from the NAMAG for resources during the evening of December 23, 2022

D. Safe Work Practices

Safety is always at the forefront of Company operations, including and especially during activities associated with storm restoration. For each storm event, the Incident Command System structures designate a lead position for a Safety, Health, and Environment Officer. Safety messages are delivered on all calls to heighten awareness during preparation and restoration.

As with any storm, the Company assembled a safety team with area responsibilities, established the reporting hierarchy, and prepared and communicated organization charts. The safety team prepared safety notices and delivered them to all Company employees through corporate communications. Safety personnel were deployed to assist in specific geographic areas and delivered on-site safety orientations to Company contractors prior to the start of any work performed. During the Storm, safety personnel visited work sites to advise Company personnel and contractors of safety issues and best practices. In addition, prior to the start of each new job,

¹ Crews typically include two or three people, although there may be some one-person crews in damage assessment, wires down, distribution line (troubleshooters), and substation personnel. Transmission crews typically include 6-10 resources.

the work was reviewed by assigned crews, with a focus on safe working conditions for the specific job. These safety efforts helped the Company experience no injuries during the Storm.

V. COMMUNICATIONS DURING AND AFTER THE EVENT

A. Communication Regarding Estimated Times of Restoration

The Company posted Estimated Times of Restoration (“ETRs”) on its website during the Storm using Outage Central, which provided real time ETR updates approximately every 15 minutes.

As crews were assigned and reported ETR updates based on their actual findings in the field, the Company uploaded the updated ETRs into Outage Central. The Company continued to update ETRs throughout the restoration process as information became available to the Company.

B. Intra-Company

The Company began preparing for the Storm on Monday, December 19, 2022, closely monitoring weather forecasts as the storm approached the northeast region. As the weather forecasts developed, the Company held one Pre-Event Briefing to coordinate the needed response from staff and personnel. The Company also conducted two Restoration Stage Briefings to execute the restoration objectives. See Appendix A for all briefings conducted.

C. Public Officials

1. Governor’s Office

During the Storm, the Company’s Regulatory and Government Affairs staff communicated with the Governor’s office. Additionally, the Company also communicated with Rhode Island’s legislative leadership leading up to and during the Storm.

2. Rhode Island Public Utilities Commission (“PUC”), Division of Public Utilities and Carriers (“Division”), Office of Energy Resources (“OER”), and Rhode Island Emergency Management Agency (“RIEMA”)

The Company’s Regulatory Liaison contacted the PUC, the Division, the Governor’s office, and OER to provide updates throughout the Storm. See Table 4 below for a listing of updates along with a brief summary of the update provided.

Table 4. Updates to the Division and OER

Date and Time of Update	Summary of Update Content
December 20, 2022; approx. 12:30 p.m.	Initial notification; weather forecast; resource update; Storm Room plans
December 21, 2022; approx. 5:58 p.m.	Weather forecast; Event Type Classification; update on planning and preparation activities; resource update; Storm Room plans; Life Support and Critical Facility Customer notification plan
December 22, 2022; approx. 1:30 p.m.	Weather forecast; update on planning and preparation activities; resource specifics; Storm Room plan update
December 23, 2022; approx. 10:58 a.m.	Current weather impact and future forecast; Customer Outage and Restoration update
December 23, 2022; approx. 7:20 p.m.	Actual weather experienced and future forecast; Customer Outage and Restoration update; Gas Operations update
December 24, 2022; approx. 1:09 p.m.	Customer Outage and Restoration update; Gas Operations update, Storm Room plans
December 24, 2022; approx. 7:23 p.m.	Final update; Customer Outage and remaining Restoration; Demobilization and Storm Room status

During the event, the Company's Regulatory and Government Affairs staff provided updates to RIEMA regarding the Company's storm preparations and restoration efforts. The Company also utilized its RIEMA Liaison to post updates virtually on RIEMA's WebEOC and support as needed.

3. Municipalities

Based on the anticipated impact from this event, the Company opened the Municipal Room on Friday, December 23, at 7:00 a.m. The Company was prepared to utilize its Area Community Liaison Coordinators to work with each Rhode Island city or town's emergency, Department of Public Works, and/or public officials as a dedicated liaison. The Company's Area Community Liaison Coordinators served as full-time resources supporting impacted communities and enabled direct communications back into the Company's public information coordinators and operations personnel.

D. Customers

The Company communicated with customers during the Storm through its Customer Contact Center, email, website, and social media. The Company's Customer Contact Center secured additional staffing to respond to incoming life-support calls for those affected by outages, as well as additional staff to support the high call volume.

See Table 5 below for a detailed listing of each method of communication utilized throughout the Storm.

Table 5. Communication Details

Method of Communication	Purpose of Interaction	Level of Interaction
<u>Report Outage/Outage Follow-up</u>		
Number of Customer Calls Received by Customer Service Rep	Customer reports outage or issue	1,872
Number of Customer Calls Received by Interactive Voice Response (“IVR”)	Customer reports outage or issue	661
Number of Customer Calls Received by 21 st Century	Customer reports outage or issue	683
Number of Outbound Calls to Life Support Customers, Type 3 Event or greater	Company notification and follow-up with Life Support Customers impacted by an outage	6,292
<u>Automated Outage Updates</u>		
Number of Inbound and Outbound Text Messages	Outage notification, update, or update request from customer	10,013
Number of emails sent	Outage notification, update, or update request from customer	1,086
Number of outbound calls made	Outage notification, update, or update request from customer	24
<u>Web and Social Media</u>		
Number of customer hits on Company website during preparation for, and response to, the event	Customers seeking information	N/A
Number of Facebook posts	Company preparation for the event, safety information, restoration updates	8
Number of tweets/re-tweets posted on Twitter	Company preparation for the event, safety information, restoration updates	8

E. Media

The Company activated its Public Information Officer (“PIO”), along with additional PIO support staff for the Storm. The Company engaged both traditional and social media channels to distribute Storm and safety-related information. The Company’s Communications Department received three media requests for information related to the Storm in Rhode Island, and no press releases were issued. Feedback and comments from media outlets and social media were received and monitored regularly, and overall sentiment was generally neutral.

VI. TECHNOLOGY ISSUES

The Rhode Island Energy website and data tracking is currently owned and managed by National Grid, under a Transition Services Agreement. The Company is currently working with National Grid to ensure tracking capabilities are available to provide the "Number of customer hits on Company website during preparation for, and response to, the event," in Table 5, above.

For this Storm, the Company is unable to provide that data metric because of technology issues. The issues have since been solved, and the data will be able to be provided for future emergency events and reports.

VII. CONCLUSION

The Storm impacted the Company’s electrical system, resulting in power outages to 48,460 of the Company’s customers. The damage was caused primarily by strong wind gusts causing tree limbs to contact with the Company’s wires and equipment. The Company followed its Emergency Response Plan and was fully prepared to respond to the Storm, having secured all necessary resources and outside contractors to aid in the restoration effort required for the forecast predicted, and maintained communications with stakeholders through a variety of channels throughout the Storm.

The Company utilized its own distribution line resources and transmission line crews, contractor distribution line crews, and contractor tree crews to restore power to its customers. Power was restored to 95 percent of customers impacted in 24 hours from the time of peak impact. The Company restored power to 100 percent of its customers impacted in approximately 65.5 hours from the time of the first customer impacted and in 57 hours from the time of peak impact. Power was restored to the final customer impacted by the Storm on Sunday, December 25, 2022, at approximately 5:18 p.m.

**Rhode Island 90-Day Storm
December 22, 2022
Appendix A**

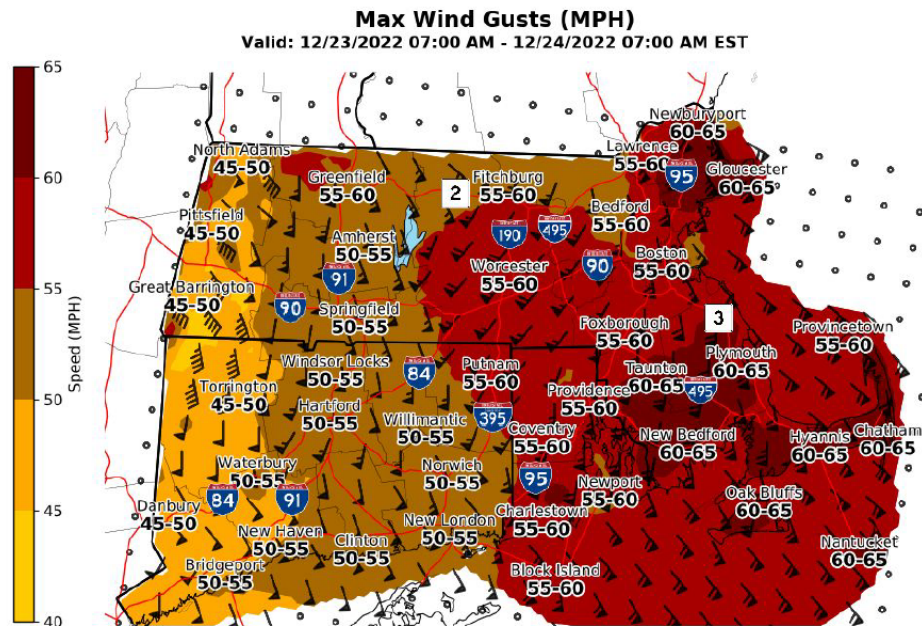
MEETING INFORMATION - #1 Pre-Event Stage Briefing			
Date:	12/21/22	Time:	3:00 pm
Call Details:	MS TEAMS		

KEY MEETING PARTICIPANTS			
D = Delegate X = in attendance			
Name	Present	Name	Present
Incident Commander/ Al LaBarre	X	Liaison Officer/ Brian Schuster	X
Control Center Lead/ Mike Freitas	X	Logistics Section Chief/ Avia Levin	X
Elect. Ops Section Chief/ Mike Hrycin	X	Public Information Officer/ Ted Kresse	X
Planning Section Chief/ Kathy Castro	X	Customer Contact Lead/ Chris Starr	X
Substation Lead/ Chris Araujo	X	Safety & Health Officer/ Jim Hopkins	X
Transmission Line Liaison/ Dan Glenning	X	Environmental Officer/ Brad Labine	X
External Resource Lead/ Brad Wheeler	X	Security Officer/ Paul Gordon	X
Forestry Lead/ Chris Rooney	X	Human Resource Officer/ Chris Alt	X
Storm Rooms/ Jack Carey	X	Finance Section Chief/ Brian Grzesiuk	X
Wires Down/ Ken Wood	X	Emergency Planning/ Steve Parenteau	X
Damage Assessment/ Roger Cox	X		

#	Agenda Item
1	<p>Safety Message – Jim Hopkins, Safety & Health Officer</p> <p>Please anticipate the increased hardship and stress that impacted customers may experience during the unfortunate Holiday timing of this event. This could result in elevated risk to the field workforce or company facilities. Consider addressing this risk with your teams and pre-job briefings. Employees and contractors may also experience increased distractions as thoughts of home and altered Holiday plans invade the focus on the job at hand.</p> <p>Utilize effective safety techniques to support the well-being of our workforce. Conduct more safety moments as the work zone may change. Call a safety stop if you see the need to act before an accident occurs and exercise more patience with ourselves and others as we all work together towards a safe and successful restoration effort.</p>
2	<p>Weather Forecast & Predicted Impacts – Junfeng Zhu, PPL Principal Data Scientist</p> <p>Damaging winds up to 65 mph, strongest along the coasts Locally heavy rainfall up to 1 - 1.5 inches with isolated areas possibly seeing up to 2 inches Minor to moderate coastal flooding Friday Expect a rapid temp change, from the 50s to 20s over a period between Saturday and Sunday Christmas Day - quiet, but colder Coastal Flood Watch issued for all coasts</p>

Rhode Island 90-Day Storm December 22, 2022 Appendix A

Maximum Wind Gust Forecast																
	12/22 Thu				12/23 Fri				12/24 Sat				12/25 Sun			
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
Boston	7↗	9↗	14↗	26↗	47↗	54↗	58↗	54↗	41↗	31↗	28↗	22↗	22↗	22↗	21↗	18↗
Brockton	6↗	10↗	15↗	25↗	45↗	55↗	59↗	55↗	43↗	32↗	29↗	22↗	20↗	22↗	21↗	16↗
Cambridge	6↗	9↗	14↗	25↗	46↗	55↗	58↗	55↗	41↗	30↗	28↗	22↗	21↗	22↗	21↗	18↗
Hartford	3↘	9↗	16↗	31↗	47↗	49↗	52↗	48↗	32↗	30↗	26↗	20↗	18↗	17↗	20↗	14↗
Lowell	3↗	7↗	10↗	18↗	43↗	52↗	55↗	53↗	39↗	26↗	25↗	18↗	17↗	20↗	21↗	15↗
New Bedford	7↗	15↗	18↗	29↗	47↗	56↗	61↗	58↗	47↗	40↗	36↗	28↗	23↗	22↗	23↗	21↗
Providence	5↗	10↗	16↗	25↗	46↗	54↗	60↗	56↗	41↗	31↗	30↗	21↗	17↗	20↗	21↗	15↗
Quincy	8↗	9↗	15↗	28↗	45↗	54↗	56↗	53↗	41↗	32↗	29↗	22↗	21↗	21↗	21↗	18↗
Springfield	5↗	8↗	16↗	28↗	47↗	48↗	52↗	49↗	35↗	30↗	26↗	21↗	20↗	17↗	20↗	15↗
Worcester	6↗	9↗	13↗	23↗	41↗	48↗	53↗	59↗	39↗	31↗	28↗	20↗	20↗	21↗	21↗	16↗



- 3 Incident Commander Update – Al LaBarre
- Operational Period
 - 1st period Friday 6am – Friday 6pm (12hrs)
 - Event Type Classification

Rhode Island 90-Day Storm December 22, 2022 Appendix A

	<ul style="list-style-type: none"> ○ Type 3 Event – up to 140,000 customers impacted for up to a 72-hour period. ▪ Emergency Response Objectives <ul style="list-style-type: none"> ○ #1 – Safe preparations & planned operational response for the duration of the event. <ul style="list-style-type: none"> ▪ Prepare your teams to achieve the following: <ul style="list-style-type: none"> • Zero injuries to employees, contractors, and all members of the public • Zero switching incidents • Safe vehicle operation & zero roadway traffic collisions ○ #2 – Establish and maintain effective communications with all Customers, Regulators, and External Agencies prior to and during the event. ○ #3 – Complete safety onboarding for all external resources prior to any work being performed ○ #4 – Respond to all Police & Fire 911 emergency calls within the committed Estimated Times of Arrival
4	<p>Electric Operations Section Chief – Mike Hrycin</p> <p>Planning efforts began early Monday of this week Shift coverage for internal crews and supplemented external crews have been established 12am Friday will start the first night shift for 14 crews, 10 Trouble Shooters and external contractors 7am Friday will start the day shift for all remaining crews All available underground & substation crews will support Wires Down and specific operations issues as they occur</p>
5	<p>Forestry – Chris Rooney</p> <p>82 Forestry crews have been secured for the event Specialty crews and equipment are available to support both Transmission and Distribution Forestry repairs Shift coverage for forestry will mirror Line shifts – 12am/7am</p>
6	<p>Substation Lead – Chris Araujo</p> <p>Keeping a close eye on flooding, Warren & Westerly Substations</p>
7	<p>Control Center Lead – Mike Freitas</p> <p>All lines will be returned to normal configurations by tomorrow DCC increased staff secured for duration of event Confirming Ryan Constable will be ETR Unit Lead and point of contact for ETR support (Estimated Time of Restoration)</p>
8	<p>Storm Rooms – Jack Carey</p> <p>Storm Room in Providence will open at 6 AM on Friday National Grid IT TSA / Desktop and OMS Support staff plans will be received by 2pm tomorrow</p>
9	<p>Wires Down – Ken Wood</p> <p>Wires Down Room will open at 7 AM on Friday Room Leads and Support staff have been secured</p>

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10	<p>External Resource Lead – Brad Wheeler</p> <p>115 external line crews secured (90 buckets/25 diggers/250 FTE) All resources are expected to arrive by 6pm Thursday for onboarding and ready to work Friday A contingent of 12-15 crews will be arriving at 6pm for the start of night shift</p>
11	<p>Transmission Liaison – Dan Glenning</p> <p>3 National Grid Transmission Line Services crews will have been secured for the event Attleboro, Hull, and Pratt's Junction staging sites Seeking to prepare a 4th crew to be staged in Worcester</p>
12	<p>Planning Section Chief – Kathy Castro</p> <p>ETR Unit has been activated and will be ready to support the response External Line Resource Unit is also staffed with support teams</p>
13	<p>Damage Assessment – Roger Cox</p> <p>DA Teams have been placed on standby and will be ready to respond, seeking to pair these teams with RCSs.</p>
14	<p>Logistics Section Chief – Avia Levin</p> <p>All lodging needs for external crews have been secured at various coverage locations across the state Meals provisions and plans are in progress, no issues expected The Community College of RI in Warwick is expected to be opening Friday AM</p>
15	<p>Customer Contact Center Lead – Chris Starr</p> <p>Life Support and Critical Customer pre-event notifications will go out tomorrow by 12pm Media Support Team activated for digital messaging efforts Coordinating with PIO for unity of message</p>
16	<p>External Liaison Officer – Brian Schuster</p> <p>Municipal Room in Providence to open at 7am Friday Community Manager and Public Safety Official notifications will go out tomorrow Nate Conan is prepared and on standby for Task Force activation needs</p>
17	<p>Public Information Officer – Ted Kresse</p> <p>Key Messaged sent earlier today, will prepare update tomorrow Press Release prepared for tomorrow AM Email and Text notifications sent to registered customers 3 media inquiries received so far, seeking preparations activities Aware of the increased sensitivity around the Holiday period, adjusting message content</p>
18	<p>Human Resources Officer – Chris Alt</p> <p>HR staff prepared for any support requests</p>

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19	<p>Finance Section Chief – Brian Grzesiuk</p> <p>Storm Accounting Guidelines were provided yesterday Please review the year end time entry guidelines for both weekly and monthly paid staff Address any requests for storm cost estimate information Contact Brian for any needed time entry and finance support needs</p>
20	<p>Safety & Health Officer – Jim Hopkins</p> <p>Staff is ready to execute all onboarding needs as external crews arrive on the property Restoration Crew Supervisors will support onboarding efforts Contact for Jim for all safety support needs</p>
21	<p>Environmental Officer – Brad Labine</p> <p>All damaged transformers must be placed at the Melrose facility, contact Brad for support needs Staff is ready to activate and support Contact Bill Howard and Liz Peterman as back-up support staff External Contractors are activated and ready to assist</p>
22	<p>Security Officer – Paul Gordon</p> <p>Security contractors have been activated and are ready to support all requests Prepared to support the CCRI Staging Site on Friday for the duration of the event</p>
23	<p>Emergency Planning – Steve Parenteau</p> <p>Mutual Assistance calls have been conducted and are planned for the ongoing duration RI Energy has submitted a request for line resources All companies are holding their resources due to the possible impact this large regional storm Large amount of contractor crews will be in the region and eager to support those companies most impacted, we will be ready to secure them as they are released</p>
24	<p>Closing Remarks – Dave Bonenberger</p> <p>Special thanks to you and your teams for this response effort during this challenging holiday time Be careful of the warm temps that drop to sub-freezing, take special care regarding vehicle and foot traversing</p>
25	<p>Next Scheduled Briefing - Date & Time</p> <ul style="list-style-type: none"> 9:00 AM Friday - #1 Restoration Stage Briefing

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MEETING INFORMATION - #1 Restoration Stage Briefing

Date:	12/23/22	Time:	9:00 am
Call Details:	MS TEAMS		

KEY MEETING PARTICIPANTS

D = Delegate X = in attendance

Name	Present	Name	Present
Incident Commander/ Al LaBarre	X	Gas Operations Section Chief/ Michele Leone	X
Control Center Lead/ Mike Freitas	X	Liaison Officer/ Brian Schuster	X
Elect. Ops Section Chief/ Mike Hrycin	X	Logistics Section Chief/ Avia Levin	X
Planning Section Chief/ Kathy Castro	X	Public Information Officer/ Ted Kresse	X
Substation Lead/ Chris Araujo	X	Customer Contact Lead/ Chris Starr	X
Transmission Line Liaison/ Dan Glenning	X	Safety & Health Officer/ Jim Hopkins	X
External Resource Lead/ Brad Wheeler	X	Environmental Officer/ Brad Labine	X
Forestry Lead/ Chris Rooney	X	Security Officer/ Paul Gordon	X
Storm Rooms/ Jack Carey	X	Human Resource Officer/ Kathy Moar	X
Wires Down/ Ken Wood & Doug Denomme	X	Finance Section Chief/ Brian Grzesiuk	X
Damage Assessment/ Roger Cox	X	Emergency Planning/ Steve Parenteau	X

#	Agenda Item
1	<p>Safety Message – Jim Hopkins, Safety & Health Officer</p> <p>3 points of contact; when entering and exiting your vehicles, always maintain 3 points of contact. Also, facing the vehicle or stairway will reduce potential for slips, trips, and falls.</p>
2	<p>Weather Forecast & Predicted Impacts – Junfeng Zhu, PPL Principal Data Scientist</p> <ul style="list-style-type: none"> • Timing: 2300h Thursday – 2000h Saturday <ul style="list-style-type: none"> ○ Peak Conditions (Pre-Frontal Trough): 2300h Thursday – 0600h Saturday ○ Sustained Conditions (Cold Front): 0600h Saturday – 2100h Saturday • Location: This is a territory-wide event • Wind Conditions (Northern RI): <ul style="list-style-type: none"> ○ During Peak Conditions: <ul style="list-style-type: none"> ▪ Sustained: 15-20mph ▪ Common Gusts: 40-50mph ▪ Peak Gusts: 50-55mph ○ During sustained Conditions: <ul style="list-style-type: none"> ▪ Sustained: 10-15mph ▪ Common Gusts: 20-25mph ▪ Peak Gusts: 30-35mph • Wind Conditions (Southern RI): <ul style="list-style-type: none"> ○ During Peak Conditions:

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	<ul style="list-style-type: none"> ▪ Sustained: 25-30mph ▪ Common Gusts: 45-55mph ▪ Peak Gusts: 55-60mph ○ During sustained Conditions: <ul style="list-style-type: none"> ▪ Sustained: 15-20mph ▪ Common Gusts: 30-40mph ▪ Peak Gusts: 40-45mph • Temperature: There will be a significant temperature variation as this event moves in. Temperatures will drop from the high 40s, to the low 20s in just a few hours. • Precipitation: Heavy rain is expected on Friday from 1 AM to 1 PM. we expect accumulation to be around 1.5 inches. As temperatures will drop significantly, there is a high chance that rain will freeze, bringing with it more outages. <p>Saturday: Windy and very cold. Outage producing weather expected. Sunday: Mainly cloudy and very cold. Outage producing weather expected.</p>
3	<p>Incident Commander Update – Al LaBarre</p> <ul style="list-style-type: none"> ▪ Operational Period <ul style="list-style-type: none"> ○ 1st period Friday 6am – Friday 6pm (12hrs) ▪ Event Type Classification <ul style="list-style-type: none"> ○ Type 3 Event – up to 140,000 customers impacted for up to a 72-hour period. ▪ Emergency Response Objectives <ul style="list-style-type: none"> ○ #1 – Ensure a safe operational response for the duration of the event. <ul style="list-style-type: none"> • Zero injuries to employees, contractors, and all members of the public • Zero switching incidents • Zero roadway & traffic collisions ○ #2 – Maintain effective and consistent communications with Customers, Regulators, and External Agencies ○ #3 – Complete safety onboarding for all newly acquired external resources prior to any work being performed ○ #4 – Respond to all Police & Fire 911 Standby and Wire Down safety calls within the required timeframes ○ #5 – Assess and prioritize all critical customer & critical facility outages ○ #6 – Regularly assess and update all Estimated Times of Restoration (ETRs)
4	<p>Electric Operations Section Chief – Mike Hrycin</p> <p>Approx. 9,000 current customer outages – 13k customers restored, 22k total customers impacted since 12am. There are 50 police & fire 911 calls in the system and assigned to crews.</p> <p>At 6am this morning the Storm Room transitioned dispatching duties from the Control Center. The Contractor Room opened at 7am and currently all external contractor crews are active with assigned outages.</p>

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5	Forestry – Chris Rooney 94 total forestry crews engaged and assisting restoration
6	Substation Lead – Chris Araujo The teams are monitoring water levels and targeted substations. Currently, no issues
7	Control Center Lead – Mike Freitas 1 Sub-T line is impacted, the 2224 9 mainline outages are actively being switched
8	Customer Contact Center Lead – Chris Starr 400 calls have been received; the teams have been able to handle the increased call volume Social Media team is monitoring activity which is currently low
9	Storm Rooms – Jack Carey Rooms are all activated and focusing on police & fire 911 calls All crews are assigned to calls and outages
10	Wires Down – Ken Wood / Doug Denomme Room opened at 7am this morning Crews are assigned to Police & Fire 911 priority calls Line crews are arriving to hazard locations to relieve Wire Down crews keeping a location safe
11	External Resource Lead – Brad Wheeler 106 external crews, all on-boarded and assigned to RCS's who are all engaged and working restoration
12	Transmission Liaison – Dan Glenning 5 TLS crews have been secured for the event (MA and RI coverage)
13	Planning Section Chief – Kathy Castro As of 8am, ETR default has been set to 6 hours ETR Unit is staffed and actively supporting the updating progress
14	Damage Assessment – Roger Cox Crews are being paired up with RCSs to patrol and assess ahead of the crews

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15	<p>Logistics Section Chief – Avia Levin</p> <p>CCRI staging site is open All lodging requirements have been secured for tonight The team is finishing meal plans for the rest of the night</p>
16	<p>Gas Operations Section Chief – Michele Leone</p> <p>Checked critical valves yesterday in the coastal areas prone to high-water impacts Field teams are regularly monitoring the water levels along with high-tide timing for flooding risks Repair crews are prepositioned in high-risk areas should we need to respond quickly</p> <p>Continue to monitor supply access in anticipation of the cold temperatures and higher demand levels as the temperatures drop later today and into tomorrow.</p>
17	<p>External Liaison Officer – Brian Schuster</p> <p>Coordinating with RIEMA to identify critical needs, feedback is positive so far Municipal Room has opened and is supporting critical community needs</p>
18	<p>Public Information Officer – Ted Kresse</p> <p>The team is active and ready to support media inquiries as they come in Updated Key Messages are being prepared if we see the need to distribute</p>
19	<p>Human Resources Officer – Kathy Moar</p> <p>No exceptions</p>
20	<p>Finance Section Chief – Brian Grzesiuk</p> <p>No exceptions</p>
21	<p>Safety & Health Officer – Jim Hopkins</p> <p>All external crew onboarding is complete</p>
22	<p>Environmental Officer – Brad Labine</p> <p>No exceptions</p>
23	<p>Security Officer – Paul Gordon</p> <p>Security resources have been assigned to the CCRI staging site</p>
24	<p>Emergency Planning – Steve Parenteau</p> <p>Resources coordination call with PPL PA and KG is planned for 2pm today North Atlantic Mutual Assistance Group calls are planned</p>
25	<p>Closing Remarks – Al LaBarre, Dave Bonenberger</p>

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	Thank you to all you and your teams for the commitment and dedication to our customers in these times of need
26	Next Scheduled Briefing - Date & Time <ul style="list-style-type: none"> 10:30 AM tomorrow - #2 Restoration Stage Briefing

MEETING INFORMATION - #2 Restoration Stage Briefing			
Date:	12/24/22	Time:	10:30 am
Call Details:	MS TEAMS		

KEY MEETING PARTICIPANTS			
D = Delegate X = in attendance			
Name	Present	Name	Present
Incident Commander/ Al LaBarre	X	Gas Operations Section Chief/ Michele Leone	X
Control Center Lead/ Mike Freitas	X	Liaison Officer/ Brian Schuster	X
Elect. Ops Section Chief/ Mike Hrycin	X	Logistics Section Chief/ Avia Levin	X
Planning Section Chief/ Kathy Castro	X	Public Information Officer/ Ted Kresse	X
Substation Lead/ Chris Araujo	X	Customer Contact Lead/ Chris Starr	X
Transmission Line Liaison/ Dan Glenning	X	Safety & Health Officer/ Jim Hopkins	X
External Resource Lead/ Brad Wheeler	X	Environmental Officer/ Brad Labine	X
Forestry Lead/ Chris Rooney	X	Security Officer/ Paul Gordon	X
Storm Rooms/ Jack Carey	X	Human Resource Officer/ Kathy Moar	X
Wires Down/ Doug Denomme	X	Finance Section Chief/ Brian Grzesiuk	X
Damage Assessment/ Roger Cox	X	Emergency Planning/ Steve Parenteau	X

#	Agenda Item
1	Safety Message – Jim Hopkins, Safety & Health Officer Cold Weather Safety Hazards Frostbite , loss of feeling and color to the affected areas. Seek shelter from the elements, use warm water (not hot) to regain color and feeling to the areas. Hypothermia , the loss of body heat faster than the body can restore it. Symptoms include the loss of coordination, confusion, and shivering. Warm up slowly, skin to skin contact to restore the body's core temperature.
2	Weather Forecast & Predicted Impacts – Junfeng Zhu, PPL Principal Data Scientist Today: Windy and very cold. Outage producing weather is not expected, but possible.

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	<ul style="list-style-type: none"> • Wind Conditions: Winds 15 to 20 mph with 20 to 30 mph gusts. A few brief gusts of up to 40 mph are possible across the southern part of Rhode Island. • Temperature: The high temperature will be 22 degrees, with overnight lows of 14 degrees and 16 degrees in northern and southern Rhode Island, respectively. • Minor snow showers are expected tonight and into tomorrow morning only along the coast, 1-3 inches possible. <p>Sunday: Mainly cloudy and very cold. No outage producing weather expected. Monday: Mostly sunny, calm</p>
3	<p>Incident Commander Update – Al LaBarre</p> <ul style="list-style-type: none"> ▪ Restoration Status <ul style="list-style-type: none"> ➤ 1,600 customer outages remain ➤ 46k total customers impacted ➤ 44,500 customers restored ▪ <u>Operational Period</u> <ul style="list-style-type: none"> ➤ 3rd operational period Saturday 6am – Saturday 6pm (12hrs) ▪ <u>Event Type Classification</u> <ul style="list-style-type: none"> ➤ Type 3 Event – customers could be impacted for up to a 72-hour period. ▪ <u>Emergency Response Objectives</u> <p>#1 – Ensure a safe operational response for the duration of the event.</p> <ul style="list-style-type: none"> • Zero injuries to employees, contractors, and all members of the public • Zero switching incidents • Zero roadway & traffic collisions <p>#2 – Restore 95% of all impacted customers by 8pm today (target to 585 remaining customer outages)</p> <p>#3 – Meet all newly updated Estimated Times of Restoration (ETR) objectives</p> <p>#4 – Zero Critical Customers Impacted by 11pm tonight</p> <p>#5 – Maintain timely communications with Customers, Regulators, and External Agencies</p> <p>#6 – Zero unassigned Police & Fire 911 calls by 10am today – <u>Completed</u></p>
4	<p>Electric Operations Section Chief – Mike Hrycin</p> <p>As of 7am all crews have work for the day Night shift will return tonight at 10pm Over 50 locations of impacted poles that need replacement</p>
5	<p>Forestry – Chris Rooney</p> <p>40 FTEs released and referred this morning to Avangrid Central Maine Power for support</p>

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6	<p>Substation Lead – Chris Araujo</p> <p>Crews are investigating the 2232 line Supporting the Storm Room with In-Service and No-Service Call close out</p>
7	<p>Control Center Lead – Mike Freitas</p> <p>1 mainline feeder still out in the south</p>
8	<p>Customer Contact Center Lead – Chris Starr</p> <p>Sentiment is turning negative for those still impacted, mostly on social media Customers continue to utilize text and web engagement</p>
9	<p>Storm Rooms – Jack Carey</p> <p>Single No-Power call focus, 2 call notifications to validate customer status was performed, last night and this morning. As a result, over 60 locations were able to be completed, not requiring a truck to roll.</p>
10	<p>Wires Down – Ken Wood</p> <p>All Police & Fire 911 calls have been assigned to a crew Focusing on assigning all remaining wire down call</p>
11	<p>External Resource Lead – Brad Wheeler</p> <p>102 crews working, all have work for the day.</p>
12	<p>Transmission Liaison – Dan Glenning</p> <p>No exceptions</p>
13	<p>Planning Section Chief – Kathy Castro</p> <p>ETRs have been updated to the fuse, transformer, and customer level Fuses = 10pm Xfmrs = 6am Sunday Customer = 12pm Sunday</p>
14	<p>Damage Assessment – Roger Cox</p> <p>DA crews are engaged supporting RCSs and single no-power call status checks</p>
15	<p>Logistics Section Chief – Avia Levin</p> <p>All logistics requirements are prepared and no outstanding requirements The CCRI staging site will be closed later this evening – some material storage will remain until Tuesday to support the final restoration (poles).</p>

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16	<p>Gas Operations Section Chief – Michele Leone</p> <p>To maintain gas reliability during the extremely cold temperatures Rhode Island is experiencing, our LNG facilities at Old Mill Lane and Exeter vaporized this morning. We anticipate vaporizing at Old Mill Lane again tomorrow morning.</p>
17	<p>External Liaison Officer – Brian Schuster</p> <p>The Municipal Room in Providence has been closed, but virtually active for the remainder of the response.</p>
18	<p>Public Information Officer – Ted Kresse</p> <p>1 media inquiry was received today, media activity remains low</p>
19	<p>Human Resources Officer – Kathy Moar</p> <p>No exceptions</p>
20	<p>Finance Section Chief – Brian Grzesiuk</p> <p>Time entry remains open for weekly employees</p>
21	<p>Safety & Health Officer – Jim Hopkins</p> <p>No exceptions</p>
22	<p>Environmental Officer – Brad Labine</p> <p>1 spill reported, schedule to remedy is in-place</p>
23	<p>Security Officer – Paul Gordon</p> <p>No exceptions</p>
24	<p>Emergency Planning – Steve Parenteau</p> <p>Seeking to support our adjacent utilities in need, coordinating in advance of our release plan to ensure a quick and efficient transfer.</p>
25	<p>Closing Remarks – Al LaBarre, Dave Bonenberger</p> <p>Thank you for the fantastic performance. We will be the first State in the northeast region to restore our customers and communities, you all have a lot to be proud of.</p>
26	<p>Next Scheduled Briefing - Date & Time</p> <ul style="list-style-type: none"> To be determined as needed

Appendix B

Please see the Excel version of Appendix B.

Appendix C

Please see the Excel version of Appendix C.

Appendix D

Please see the Excel version of Appendix D.

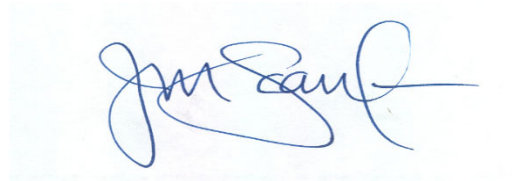
Appendix E

Please see the Excel version of Appendix E.

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

The paper copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and to the Rhode Island Division of Public Utilities and Carriers.



Joanne M. Scanlon

April 4, 2023
Date

**Docket No. 2509 – National Grid – Storm Fund
Service List as of 6/1/2022**

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Docket D-11-94 Review of National Grid's Storm Reports

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