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#### A. PURPOSE

This Emergency Plan provides for an emergency response that will minimize the hazard resulting from an electric emergency and will:

- Receive, identify and classify notices of events which require immediate response.
- Establish and maintain adequate means of communication with appropriate fire, police and other public officials.
- Promptly respond and make safe any actual or potential hazard to life or property related to the Liberty Utilities (LU) electric system.
- Protect people first and then property.
- Manage outages caused by storms, other natural disasters, civil unrest, major equipment failure, or other events.
- Restore electric service to customers affected by the emergency and minimize any additional interruption of service caused by repair activities.
- Notify the NHPUC and other government agencies of the emergency situation in accordance with local, state, and federal regulations.
- Inform the public, government officials, and the news media of the emergency situation.

The operational and organizational concepts that will achieve these actions are described below and are implemented in an accompanying series of operating procedures.

This Plan has been developed to comply with regulations relevant to electric operation emergency preparedness that are contained in the New Hampshire Code of Administrative Rules and the Occupational Safety & Health Administration Standards.

LU relies upon local public emergency response personnel to have plans and procedures that minimize the effect of the emergency on the public. These plans normally include: systems for warning the population, plans for notifying municipal resources and the establishment of rapid and efficient communication.

For the purposes of this Plan, consider the terms Emergency Plan, Emergency Response Plan and Emergency Management Plan as interchangeable.

# **B. STATEMENT OF POLICY**

The highest priority of the Company in an emergency is to protect the general public first, then to minimize property damage, and then to maintain and restore electric service to customers, if necessary. The principal objective of the Emergency Plan is to establish procedures and practices for prompt and effective response to emergencies.

Response to different types of emergencies is dependent on the judgment and experience of different levels of Company Authority. The proper level of Authority, commensurate with the seriousness of the situation, shall be notified in accordance with the Emergency Plan.

Any significant incident or event capable of causing interruptions to electric service, or other potential hazards shall be considered an emergency until a determination has been made by a Company Authority that an emergency does not exist. All emergencies shall require a prompt and effective investigation as to determine the severity of the situation and protect the public.

Most emergencies require trained and/or qualified personnel to perform routine operations and utilize safe working practices, including the use of appropriate clothing and protective equipment required by the Company.

# C. PLAN SUMMARY

The Categories of emergency Events that can potentially affect Liberty Utilities electric facilities are:

- Sub-transmission outages that impact one or more substations
- Thunderstorms with high winds and severe lightning
- Snow or ice storms
- Fire located near or directly involving an electric facility
- Explosion occurring near or directly involving an electric facility
- Unplanned supply interruptions
- Other emergency events related to electric operations (i.e. Terrorism, Civil Disturbances)

Liberty Utilities emergency response capabilities must be able to rapidly assist the actual and potential hazard associated with an emergency event and mobilize the appropriate response resources.

# 1. Emergency Guidelines

The Emergency Classification Guidelines provide:

- A mechanism for rapidly activating specific facilities and personnel based upon the known aspects of an incident or event.
- Notification of the seriousness of the emergency internally and to appropriate outside agencies not directly involved with the incident or event so that they can prioritize their actions accordingly.

These guidelines group the potential emergency events into event Categories. The Events within each category are then graduated by level of significance into 5 emergency Classifications.

The lower two emergency classification levels, "Type 5 Small Impact Event" and "Type 4 Moderate Impact Event" provide for heightened awareness of the situation by company personnel. The highest emergency classification, "Type 1 Catastrophic Impact Event" provides for the activation of additional facilities and personnel as needed.

It is important to note that these classifications and the associated level of response actions are only quidelines that can be adjusted at any time during the emergency.

#### 2. Receiving, Identifying and Classifying Events

The Emergency Dispatch organization will have the responsibility for classifying an event and performing the initial notifications. Emergency Dispatch follows its own set of written procedures that are external and separate from this Plan.

The Emergency Dispatch Supervisor is responsible for events involving electric field operations and for notifying Electric Control of major electric outages or other incidents. The Emergency Dispatch Supervisor who classifies the incident would make emergency notifications to LU, the NHPUC, and local emergency response organizations, if appropriate. The Director of Electric Operations or their designee would assume the role of the Incident Commander for the incident. If the Director of Electric Operations cannot be contacted, then the On Call Supervisor would be notified and assumes the responsibility of the Incident Commander.

The Field Supervisors or other designated personnel are on a duty rotation as the On Call Supervisor. This ensures that a qualified individual is always available to respond to an emergency event. The Incident Commander has the responsibility of assessing the situation and determining the appropriate level of response, e.g., whether to activate an Electric Emergency Operations Center and/or activate an On Scene Command Center.

#### 3. Establish and Maintain Communication

In the event of an Electric Emergency in which an Emergency Operations Center (EOC) needs to be opened, the coordination of the emergency response will be centralized at that location. Upon arrival at the EOC, the Incident Commander is in command and control of the emergency response. The Operations Vice President of LU or designee will continue to have oversight responsibility for all electric operations. The Incident Commander designates an On Scene Incident Commander who is responsible for coordinating LU activities and for interfacing with Police, Fire Department and NHPUC personnel responding to the scene. The On Scene Incident Commander must establish and maintain adequate means of communication with the appropriate Fire, Police and other Public Officials.

Events classified as an Emergency may require an On Scene response of LU Media, Government & Community Relations, Customer Care, Risk Management, and possibly other Liberty Utilities organizations. The mobilization of these LU personnel to the scene will be coordinated with the Incident Commander. In order to coordinate the flow of information and the activities of personnel, Liberty Utilities management personnel are provided periodic updates.

The interface with city, town officials remains with the Liberty Utilities Government & Community Relations organization that will have an ongoing relationship with these localities.

# 4. Prompt Response and Restoration

Once an emergency has been declared and while the above steps are in progress, Electric Operations will follow the investigation, repair procedures, and restoration guidelines in accordance with its Electric Operating Procedures. These documents are available on the LU Engineering community site.

See **Appendix I** of this Plan for the Restoration of Service priority.

# 5. Weather Reports

It is of great importance that the weather be monitored closely, particularly during periods of impending adverse conditions. Forecasts will be obtained from various weather service providers prior to a storm event and several times daily during the storm event. Weather reports, as well as severity and tracking, will be communicated by Dispatch & Control to Emergency Management, Electric Operations and the Incident Commander when appointed.

Liberty Utilities has contracts for meteorological services with Schneider Electric (Telvent DTN). The Energy Event Index is sent twice daily at 8:00 AM and 4:00 PM. The forecast contains Wind Speed, Wind Gust and Confidence Levels over a 10 day period for four separate regions in New Hampshire. Montauk NY is included in the report as an early warning of storms moving west to east which are typical for New Hampshire. (See **Appendix A**.) Dispatch & Control also has the ability to ask for more specific information from a staff meteorologist at Telvent by using the Consulting Module on MxVision Weather Sentry Online.

#### 6. Lebanon and Salem Regions

The two regions generally operate as independent control areas. There are no electric system interconnections between the two regions. Due to the independent configuration of the regions; they operate individually during most emergencies. National Grid and Trans Canada supply energy to the Company in the Lebanon Region while National Grid is the only supplier of energy to the Salem Region. Transmission level control is administered through the National Grid Transmission System Control Center.

## D. SCOPE OF THE EMERGENCY PLAN

The Emergency Plan provides:

- for the classification of emergencies;
- the mobilization, organization, and responsibilities of Company personnel and the Company's agents during an emergency;
- · notification procedures; and
- general guidelines to assist personnel in the performance of their duties during an emergency.

This Plan details LU response actions to emergency events involving its electric operations. These actions may include:

- · classification of the event;
- notification and updates of LU and other response organizations;
- activation of appropriate LU facilities and personnel;
- assignment of LU emergency response organization responsibilities;
- coordination of LU emergency response;
- requests for mutual assistance through regional groups;
- pre-staging of crews; and
- recovery implementation.

This Plan also describes the provisions made by LU to effectively coordinate its activities with other response groups both internal and external to Liberty Utilities. The specific detail of the response to be provided by these groups should be contained within their own plans and procedures.

1. Other offices and departments within Liberty Utilities which could have an emergency response function, include:

**Customer Care (Media, and Community Relations)** - Responsible for providing information to customers and media representatives.

**Emergency Management** - Responsible for assisting with the emergency response and evaluating the adequacy of LU emergency response efforts.

**Energy Procurement** - Responsible for coordinating with Electric Control in the procuring of necessary supplies of electricity as required by the emergency.

**Engineering** - Responsible for assessing the impact of a given situation on the distribution systems and identifying possible courses of action to remedy and/or restore the systems to safe and reliable operation. This could include emergency shutdown and reduction in any section of the LU system necessary to minimize hazards to life or property. Response frequently involves interaction with one or more of the following groups: Field Operations, Electric Control and Emergency Dispatch.

**Environmental** - Responsible for advising cleanup operations and interfacing with regulatory agencies in response to an oil spill and hazardous material releases.

**Electric Control** - Responsible for providing data to Engineering and the Director of Operations to aid in diagnosing the problem and for coordinating the operations during the emergency. Will assure adjustments to system operations as needed are made during the emergency.

**Government & Community Relations** - Responsible for providing information to government officials.

**Human Resources** - Responsible for providing information and assistance in resolving any employee/union issue as a result of the emergency.

**Procurement** - Responsible for securing and providing materials and logistics.

**Safety** - Responsible for job site compliance to the Occupational Safety & Health Administration (OSHA) and other safety related regulations.

**Security** - Responsible for interfacing with the Police Department for events involving vandalism, bomb threats, and similar situations.

**Risk Management Services** - Responsible for coordinating corporate liability and claims as a result of the emergency.

2. Organizations outside of Liberty Utilities that could be involved in the emergency response and with whom LU may need to interface include:

Fire Department (city/local/county)

Police Department (local/county)

**Municipal Public Works Department** 

**Municipal Wiring / Building Inspectors** 

**Municipal Government Officials** 

New Hampshire Public Utilities Commission (NHPUC) Safety Division

**New Hampshire Division of Emergency Management** 

**New Hampshire Department of Environmental Services** 

**New Hampshire Department of Transportation** 

Operators of Electric Systems and other Utilities

Occupational Safety and Health Administration

3. LU emergency response capability must be able to rapidly assess the actual and potential hazards associated with an emergency event and mobilize the appropriate response resources.

# E. REVISION HISTORY

Date	Revision Number	Section	Revision	Author
1/1/2016	4	Various Red Text Throughout	Updated per the NHPUC Thanksgiving Storm 2014 After Action Report requirements.	L. Cody
		Section C.5 Section J.11 Appendix A.2 Appendix A.4 Appendix E Appendix E Appendix I	Added Language: Weather Reports Holiday Periods Trouble – Definition Energy Event Index (EEI) Table Historical Outage Table Electric Utilities in NH Summary Pre-Staging Crews	
		Appendix H	Revised Forms:  Meeting Agenda – Prior To Event Meeting Agenda – During Event Meeting Agenda – Post Event	
7/1/2015	3	Entire Document	Edits Throughout	L. Cody
7/1/2014	2	101, 105, 109, 110, 118	Updated per NHPUC 300 Rules	T. Deppmeyer
7/1/2013	1	101, 110, 113, 121	Increased Storm Levels from 3 to 5. Updated per the October 2011 Snowstorm Report	T. Deppmeyer
7/3/2012		Entire Document	Original Filing	T. Deppmeyer

# F. CLASSIFICATION AND NOTIFICATION OF EMERGENCIES

The Emergency Classification Guidelines provide a formalized means to systematically classify the severity of an event or incident involving electric facilities and/or electric personnel. The Guidelines provide:

- A mechanism for rapidly activating specific facilities and personnel based upon the known aspects of an incident or event.
- Notification of the seriousness of the emergency internally and to appropriate outside agencies not directly involved with the incident or event so that they can prioritize their actions accordingly.

These Event Levels group the potential emergency events into common event Categories.

- 1. Fire or Explosion
- 2. Natural Disaster
- 3. Unplanned Supply Interruption
- 4. Other: Terrorism, Breach of Security, Newsworthy Event

The Events within each Category are then graduated by level of significance into five emergency Classifications:

- Type 5 Small Impact Event (Localized Response Condition / Normal Operations)
- Type 4 Moderate Impact Event (Heightened Alert)
- Type 3 Serious Impact Event (Enhanced Support)
- Type 2 Major Impact Event (Comprehensive Support)
- Type 1 Catastrophic Impact Event (Emergency Support)

The lower two emergency classification levels, "Small Impact Event" and "Moderate Impact Event" provide for heightened awareness of the situation by company personnel. The highest emergency classification, "Catastrophic Impact Event" provides for the activation of additional facilities and personnel as needed.

It is important to note that these classifications and the associated level of response actions are only guidelines that can be adjusted at any time during the emergency.

Whenever a significant incident capable of causing interruptions to electric service does or is anticipated to occur, the Incident Commander, with support from Emergency Management, will determine the necessary level of the Company's response as dictated by established Operating Conditions. The classification of an emergency is generally based on the number of customers interrupted and the estimated duration of the restoration activities and is not necessarily dependent upon how geographically widespread the emergency. The event classification also does not stipulate a mandated level of response organization activation. The determination of response level activation and staffing is at the discretion of the Director of Electric Operations, Vice President of Operations, or the Incident Commander when appointed.

The Director of Electric Operations, Vice President of Operations, or the Incident Commander when appointed is responsible for establishing and/or changing the Classification Type as needed based on factors including, but not limited to, extent of damage, type of damage, availability of supplemental resources, and/or level of command required to direct restoration efforts.

The transition from one level to another, either higher or lower, is accomplished solely at the discretion of the Director of Electric Operations, Vice President of Operations, or the Incident Commander when appointed, based on the recommendations of the Electric Operations Team, Dispatch & Control Center, and other key staff.

Collectively, they should assess:

- Current Operational Situation (number of outages, resources, supplies, etc.)
- Current weather conditions
- Forecasted weather conditions
- Damage assessments
- Restoration priorities
- Forecasted resource requirements
- Forecasted Operational Tempo
- Other situational specific factors

Once established or changed, the Classification Level will be communicated to all leaders and organizations currently engaged in or anticipated to be engaging in restoration or support activities.

Reports or calls of emergencies shall be received by, or directly referred to, the Emergency Dispatch Center. Emergency Dispatch in Londonderry is staffed on a 24-hour basis. Each report or call of an emergency received by Emergency Dispatch shall be addressed, based on the information available.

# If An Employee Discovers The Emergency:

It is the responsibility of the employee at the scene to determine the nature of the emergency, take reasonable steps to make the area safe, and to provide information and assistance to other emergency responders to protect people and/or property. This factual information should immediately be relayed to Emergency Dispatch and the Field Supervisor/Manager on duty or in his absence, to the appropriate management personnel.

# If An Employee Receives Information Concerning An Emergency From An Outside Source:

Any employee receiving a report of (or discovering an emergency) should attempt to gather and record the following information, if available:

- Calling party, phone number and address.
- Exact time reported and location of emergency (intersecting street and/or pole number).
- Nature of emergency.

See Emergency Dispatch and Appendix A for more information on the classification of events and the corresponding notifications to internal personnel at Liberty Utilities.

# **Telephonic Reporting Requirements**

There are state regulations concerning the immediate notification of certain Incidents and Events. See **Appendix B** for more information on immediate telephone notice to the NHPUC.

#### Written Report Requirements

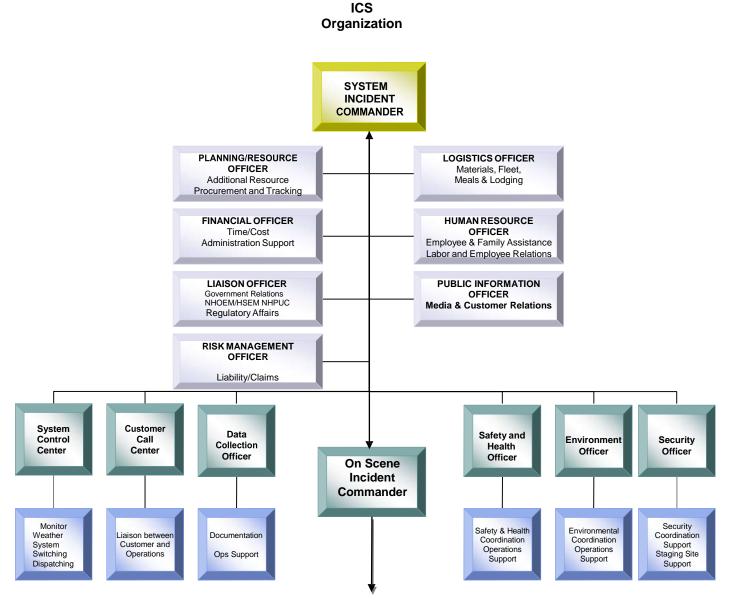
There are state regulations concerning the follow up written reports of certain Incidents and Events. There are also internal company requirements.

See **Appendix C** for more information on the required written reports.

# G. EMERGENCY ORGANIZATION CHARTS

The Plan aligns with the principles of the National Incident Management System (NIMS) and parallels the Incident Command System (ICS), which Liberty Utilities employs to manage Emergency Events or Incidents. The Plan also employs the ICS organizational structure to support the On Scene Incident Command. Most of these positions are filled within the state. On occasion, there may be a dual position at the corporate level.

See the CQ&EM site for the ICS forms and the ICS Position Checklists.

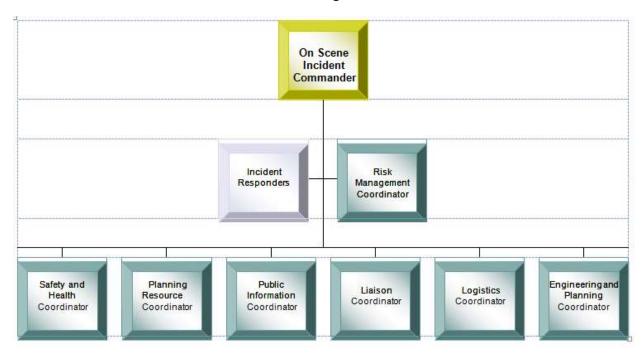


Note: in accordance with ICS, the activation of any of these positions is at the discretion of the Incident Commander in consideration of the level of response required for each event.

#### On Call Supervisor Roster

The established On-Call Supervisor Roster ensures availability during an electric emergency. Personnel selected as On-Call Supervisors serve in this capacity on a rotating basis. The On-Call Supervisor must be able to arrive at any of the established EOCs within a reasonable time of notification. The On-Call Supervisor roster and schedule will be maintained by Electric Operations and issued by Dispatch.

# On Scene Organization



Note: in accordance with ICS, the activation of any of these positions is at the discretion of the Incident Commander in consideration of the level of response required for each event. Other emergency response positions will include the supervisor of electric operations, damage prevention and the on-call supervisor.

Typically, there will be scheduled conference calls and meetings during the incident or event and a meeting template and organization chart specific to the incident or event would be followed.

See **Appendix H** for the Liberty Utilities Event Meeting Agenda and the Event Organization Chart. These documents are prepared and distributed by CQ&EM.

#### H. RESPONSIBILITIES AND EMERGENCY ORGANIZATION POSITIONS

During an electric emergency, the magnitude of the response and the response organization required to direct and resolve the incident is based on the emergency event and its classification. The Emergency Classification Guidelines facilitate the decision as to whether full or partial activation of the Incident Command System (ICS) is necessary.

Electric incidents which are classified as "Small Impact Events" or "Moderate Impact Events" are handled by the normal day to day assigned personnel or designated on-call personnel. Mobilization of all or a portion of the ICS may be required by all events classified in the event classification guidelines. If multiple electric incidents occur, then an On Scene emergency organization may be established at each incident site.

The ICS positions described in this section will be mobilized as needed by the emergency situation. This organization is a framework that can be expanded or contracted as needed. There are two electric operation centers in NH (Salem and Lebanon). Personnel from these operation facilities will be prepared to provide mutual assistance when an electric emergency occurs.

LU personnel are assigned to emergency positions corresponding to their functions within their normal operating organization. Training of personnel assigned to the ICS is discussed elsewhere in this Plan.

During an Emergency, the ICS may require a corporate response from personnel assigned to other Liberty Utilities Organizations (e.g. Finance, Customer Care, Media Services, Government & Community Relations, etc.,) based on the type and severity of the incident. These Liberty Utilities personnel would coordinate the actions of the ICS with their respective departments.

#### RESPONSIBILITY

- The Vice President of Operations, his/her appointed designee, or the Incident Commander when appointed, is primarily responsible for establishing the projected and/or actual Incident Classification Type.
- Dispatch & Control Center Operations is primarily responsible for monitoring all weather events and evaluating their potential severity and impact on the system.
- Emergency Management will also monitor weather and other incidents and events that might adversely impact the system.

Any incident or event that poses a potential significant risk will be immediately communicated to the Director of Electric Operations, VP of Operations and to the President of Liberty Utilities.

#### 1. Vice President, Operations

The Vice President of LU Operations has authority and oversight of all LU gas and electric operations. If the Vice President is unavailable, this position may be filled by the Incident Commander. The responsibilities of the Vice President include:

- Authority to unilaterally initiate any emergency action
- Authority to assume command and control of the emergency from the Incident Commander
- Commitment of corporate resources beyond existing policies
- Maintenance of corporate profile and public image
- Official liaison and dialogues with key business and government leaders affected by emergency
- Approval of requests for foreign electric crews (also known as Mutual Aid)
- Approval of press releases
- Protection of shareholder interests
- Protection of corporate assets
- Response to financial community

#### 2. Incident Commander

Upon classification of an emergency, the Incident Commander notifies the Vice President Operations, and assumes overall direction and control of the emergency situation. This position is typically filled by the Director of Electric Operations. If the Director of Electric Operations is unavailable, this position may be filled by the Director of Engineering, the Manager of Electric Operations or an On Call Supervisor. The Incident Commander's responsibilities include:

- Obtaining a briefing from the prior Incident Commander and/or assessing the situation
- Managing the emergency response on-site or from the Electric EOC
- Designating an On Scene Incident Commander
- Approving and implementing the Electric Emergency Plan and Incident Action Plan
- · Determining if the emergency warrants activation of the ICS staff
- Determining incident objectives and strategy
- Overall management and accountability for resolution of the emergency
- Ensuring the VP Operations is provided timely updates on status of the electric emergency
- Ensuring that Government and Community Relations provide State and Municipal Emergency Managers with a daily report noting number of customers affected, status of the restoration efforts and expected return of service to all customers
- Coordination of response activities with emergency responders and civil authorities
- Managing planning meetings as required
- Review of press releases for technical content
- Authorizing the release of information to the news media
- Approving requests for additional resources or for the release of resources
- Ensuring compliance with the drug and alcohol testing regulatory requirements
- Ordering demobilization of the incident when appropriate

#### 3. Planning / Resource Officer

The Planning/Resource Officer is responsible for coordinating requests from the On Scene Personnel and Resource Coordinator for additional LU personnel or other utility personnel. If the magnitude of the emergency exceeds LU ability to provide electric crews, the Planning/Resource Coordinator requests other utilities to provide Mutual Aid and coordinates the registration and tracking of these crews. No request for foreign crews will be made without the prior approval of the LU Vice President of Operations. The Planning/Resource Officer will administer the process that communicates with external utilities to obtain appropriate support from other utilities. Responsibilities of the Planning/Resource Officer include:

- Collect and manage all incident relevant operational data
- Supervise the preparation of the Incident Action Plan
- Procure additional resources as requested
- Track and report all employees and foreign crews assigned to the incident
- Compile and display incident status information
- Establish information requirements and reporting schedules
- Participate in the planning meetings

# 4. Logistics Officer

The Logistics Officer is responsible for coordinating and expediting requests for lodging, materials, transportation, stores, and food service support. The Logistics Officer is responsible for providing:

- Materials Management
- Meal coordination
- Lodging coordination

- Fleet Management
- Additional support requests
- Participate in the planning meetings

#### 5. Liaison Officer

The Liaison Officer or designee will interface with the Incident Commander and the On Scene Incident Commander during emergency response incidents. The Liaison Officer's responsibilities include:

- Responding to concerns and requests by non-Liberty Utilities personnel and agencies
- Informing LU of signification actions being planned by non-LU personnel and agencies
- Establish information requirements and reporting schedules for Government and Municipal agencies
- Participate in the planning meetings

#### 6. Public Information Officer

The Public Information Officer has a significant role as a major interface with the affected town and customer. They are responsible for collaborating with the EOC and On Scene personnel at the incident location to provide support for customer issues regarding emergency restoration efforts. The Public Information Officer responsibilities include:

- Implement coordinated actions for special needs accounts with the Incident Commander
- Determine, with direction from the Incident Commander, any limits on information release
- Develop accurate, accessible, and timely information for use in press/media briefings
- Develop and obtain the Incident Commander's approval of news releases
- Conduct periodic media briefings
- Arrange for tours and other interviews or briefings that may be required
- Monitor and forward media information that may be useful to incident planning
- Maintain current information, summaries, and/or display in the incident
- Make information about the incident available to incident personnel
- Participate in the planning meetings

#### 7. Finance Officer

The Finance Officer is responsible for all financial and cost analysis aspects of the incident and for coordinating the delivery of financial information with members of the Liberty Finance organization. Specific responsibilities include:

- Tracking of incident costs and reimbursement accounting
- Providing advice on financial implications based on planned course(s) of action
- Providing assistance with obtaining contracting/purchasing approvals
- Attending planning meetings (as required)
- Management of all financial aspects of an incident
- Providing financial and cost analysis information (as requested)
- Gathering pertinent information as defined during incident meetings
- Maintain continuous contact with the Incident Commander or designee on financial matters
- Providing financial input to planning of the incident demobilization
- Briefing appropriate Liberty personnel on incident related financial issues as well as issues that will require follow up actions

# 8. Electric Engineering Coordinator

The Electric Engineering Coordinator provides technical assistance to the EOC and On Scene Command Center. This support includes any required reviews and analysis of the electric transmission and distribution systems and facilities.

#### 9. On Scene Liaison Coordinator

The On Scene Liaison Coordinator reports to the On Scene Incident Commander and is the Liaison Officer's principal point of contact for all communications from the incident site to various Liberty Utilities organizations. The On Scene Incident Commander maintains a log of all communications to include individuals/organizations called or communicated with and the type of communication provided.

#### 10. On Scene Incident Commander

The On Scene Incident Commander reports to the Incident Commander and is responsible for directing the repair and corrective actions at each incident scene. These responsibilities include:

- Reporting to the incident scene, assessing the situation, and providing a status as appropriate to Emergency Dispatch/Electric Control
- Mobilizing one or more crews and establishing a company demark zone of site location
- Serving as initial representative to the Fire or Police Departments, the designated Incident Coordinator, or other civil authorities at the scene until arrival of the On Scene Liaison Coordinator
- Directs repair activities with other mutual aid company crews assigned to the site

#### 11. On Scene Logistics Coordinator

The On Scene Logistics Coordinator is responsible for coordinating all requests for materials, transportation items, stores, and food service from the various Coordinators at each incident scene. The On Scene Logistics Coordinator works with the Logistics Officer in the EOC in expediting these requests.

# 12. On Scene Planning/Resource Coordinator

The On Scene Planning/Resource Coordinator is responsible for identifying the need for additional Liberty Utilities personnel at the incident scene. The On Scene Planning/Resource Coordinator coordinates with the Planning/Resource Officer in the EOC to obtain support and maintains a roster of all LU personnel working at the scene.

#### 13. Incident Responders

The Incident Responders are Liberty Utilities personnel responsible for assessment, corrective actions, and repairs at the incident scene. These responders are primarily from within Liberty Utilities Operations. Other incident responders could include personnel from other Liberty Utilities departments and retirees.

#### 14. Environmental

Advise and assist the Incident Commander with any environmental abatement matter. As much as possible, utilize established environmental abatement policies and plans in mitigating an incident.

# 15. Health and Safety

Expedite post-accident testing of employees in accordance with the Anti-Drug program and Alcohol Misuse Prevention Plan. Advise and assist the Incident Commander regarding personnel safety during any declared electric emergency. Investigate the injury of any company employee that may occur during the emergency.

Assist Legal Department regarding reports made to OSHA, and the investigation of fatalities and in-patient hospitalizations of employees, which may have occurred as a result of the emergency.

# 16. Security

Advise and assist the Incident Commander regarding personnel, facilities and company security during any declared electric emergency.

#### I. RESPONSIBILITIES FOR THE SUPPORT ORGANIZATIONS

This section briefly describes responsibilities of organizations that may be called upon to provide additional support based on the type of emergency.

#### 1. Sales and Marketing

- Maintain a current list of large-volume customers by city, town or subdivision, including telephone numbers and names of customers to contact in an emergency.
- Act as liaison to large-volume customers in the event of an emergency situation that requires a
  planned shutdown or load curtailment.
- Coordinate compliance of customer load curtailment with Electric Control.

#### 2. Electric Control

- Receive notifications at Electric Control regarding an actual or potential emergency involving electric supply.
- Notify Emergency Dispatch of an actual or potential emergency involving electric supply.
- Provide and coordinate the response of Electric Operations personnel in accordance with the requests of the Incident Commander.
- Coordinate activities with Emergency Dispatch and Damage Prevention or assume or designate responsibility in case of leadership absence.
- Provide assistance to the Incident Commander or serve as an alternate, when necessary.

# 3. Information Technology

- Notify and mobilize departmental personnel to assist in an emergency.
- Provide IT equipment and program support to be used in an emergency.

#### 4. Damage Prevention

- Mobilize mark-out personnel to assist in locating company facilities, as directed by the On Scene Incident Commander.
- Gather Dig Safe documentation and work orders for the area of the incident. Inform the On Scene Incident Commander of any foreign excavation activity that could be contributory to the emergency.
- Take photographs of the mark-out activities for foreign excavations in the area of the emergency.
- Notify the Incident Commander of any excavation activity that could be contributory to the emergency or would require regulatory notification.

#### 5. Risk Management

- Advise and assist the Incident Commander with any large-scale damage assessment or investigations as may be found in a declared electric emergency.
- Assess damage and provide any necessary documentation for use in legal and regulatory reporting.
- Under the direction of the Incident Commander, interview witnesses, public officials, and Company personnel.
- Document the incident with photographs, statements, and records.
- Gather, salvage, and protect evidentiary exhibits.
- Obtain services of experts and consultants.
- Assist Company Authorities as a liaison with public officials.
- Assist Customer Care as a liaison with the news media.
- Assist the Director of Electric Operations with written reporting of incidents to the NHPUC
- Provide information acquired from the investigation of the incident, which may prevent similar incidents from recurring, to the Incident Commander.

# 6. Operations Compliance

- Act as a liaison to the NHPUC personnel responding to the emergency.
- Advise and assist the Incident Commander, Risk Management, Legal and other company representatives regarding regulations, compliance issues, and incident investigation and assessment.
- Assist the Incident Commander, Emergency Dispatch Supervisor or the Legal Department, with both telephonic and written reports of incidents to the NHPUC.

#### J. EMERGENCY RESPONSE

This section describes how this Plan is implemented for LU electric emergencies. This section is purposely written to cover general situations. For specific situations such as widespread outages, fires, explosions, floods, civil disobedience, earthquakes, multiple simultaneous events, etc. a customized response would be prepared.

See Appendix E for a list of specific operating procedures of use during an emergency.

See **Appendix I** for information on the Restoration of Service.

# EMERGENCY PHASES

The Company's emergency planning and response is broken down into four time periods (phases) as follows:

Blue Sky: Time period where there are no Emergency Events ether anticipated or ongoing.

This phase covers all periods up to the time when an incident is identified (long or short-notice incident) or occurs (no-notice incident). Activities performed during this phase include annual preparation such as training, drills, and

meetings.

Incident Anticipation: (Prior-Event Stage) Time period when an Emergency Event is identified through

when it causes damage significant enough to cause disruptions to the electrical system. This phase may last greater than 72 hours (long-notice event), less than 72 hours (short-notice event), or may not occur (no-notice event) depending on the nature of the incident. Activities performed during this phase include

conference calls and completion of checklists.

Incident Response: (During-Event Stage) Time period commencing when the

first Emergency Event caused system damage resulting in electric service interruptions and concluding with restoration of all customers. Activities during

this phase include all restoration, support, and reporting activities.

Post-Incident (Post-Event Stage) Time following the termination of an

Emergency Event when the various functional groups involved prepare a report on the incident, the problems encountered, best practices and procedural changes which will be implemented to prevent recurrence in future incidents.

This phase concludes with the filing of applicable reports.

#### **DISPATCH & CONTROL**

The Dispatch & Control Center located in Liberty Utilities Londonderry facility will be staffed 24 hours. The Center is the home for Controllers of the distribution systems during non-emergency periods. During events, controllership for some portions of the Electric Distribution system may be delegated to the Regional Storm Rooms in Lebanon or Salem as jointly determined necessary by the Director of Electric Operations, Dispatch & Control, Incident Commander or designee.

Typically, the Region will manage trouble orders and be delegated controllership of un-fused radial and single-phase or three-phase laterals while the Dispatch & Control will retain three-phase mainline controllership and maintain the Outage Management System. However, other arrangements, such as the delegation of controllership for an entire feeder to the Regional Storm Room, are permissible depending on the severity of the emergency.

The Dispatch & Control Center will retain responsibility for controllership and operation of the substations within the respective Region(s). During an emergency event, Dispatch & Control will be responsible for the restoration of these systems in coordination with the Regional Storm Rooms.

#### TRANSMISSION NETWORK OPERATIONS

The National Grid Transmission Network Operations Center is staffed 24 hours. During an Emergency event, this Center will be responsible for communications and the coordination of restoration of National Grid's bulk power system interconnections with Liberty Utilities. This Center is located in Northborough, Massachusetts.

Transmission (NE): Northborough, MA

No Power Calls: 800-465-1212

#### **EMERGENCY COMMUNICATIONS**

#### a. Electric Facilities

An incident at one of the LU electric facilities initiates a set of internal and external notifications. When the incident is discovered, the LU person observing the emergency condition notifies Emergency Dispatch and takes mitigating action as dictated by procedure.

Upon receipt of a call from the site, the Emergency Dispatcher makes any immediate notifications to local emergency response personnel and facility managers. Upon completion of these immediate notifications, the Emergency Dispatcher classifies the emergency, using the Emergency Classification Guidelines. For Emergencies, the Director of Electrical Operations is contacted and assumes the role as the Incident Commander for the incident. If the Emergency Dispatcher is not able to contact this Director, the assigned On Call Supervisor is contacted and assumes the responsibilities of the Incident Commander.

#### b. Electric Distribution System

When electric emergency calls are received by Electric Dispatch or the Customer Service Center personnel from Fire or Police Department personnel (or other credible officials) indicating an electric emergency, one or more Field Operations personnel will be immediately dispatched and appropriate notifications are initiated.

If electric emergency calls are received from customers, a Field Operations person is dispatched to the scene. Upon arrival, the Field Operations person reports the conditions found to the Emergency Dispatch Supervisor who then assesses the incident and implements any immediate notifications necessary to local Police or Fire Departments.

Upon completion of the notification, the Emergency Dispatch Supervisor classifies the emergency using the Emergency Classification Guidelines and contacts the Director of Electric Operations who assumes the role of the Incident Commander for the incident. If the Emergency Dispatch Supervisor is not able to contact the Director of Electric Operations, the assigned On Call Supervisor is contacted and assumes the responsibilities of the Incident Commander. During off-hours, the Emergency Dispatch Supervisor's responsibilities may be performed by the Emergency Dispatcher.

# **EMERGENCY RESPONSE**

#### 1. Mobilization of Personnel and Activation of Facilities

For incidents classified as a "Small Impact Event" or "Moderate Impact Event", an Incident Commander may not be appointed and the response is limited to routine notifications and is handled by the normal operating organization or the on-call personnel.

When notified of an Electric Emergency, the Incident Commander, if appointed, approves the classification and assesses the level of corporate response required.

For incidents classified as an Electric Emergency, the Incident Commander makes three decisions:

- Whether the Electric EOC needs to be activated?
- Whether an Incident Command Staff is required?
- Who will be the On Scene Incident Commander?

Emergency Dispatch and Electric Control may provide the coordination of emergency response in the event of an electric emergency until an Incident Commander is named.

The EOC is activated by the Incident Commander when it is expected that the level of activity of emergency response personnel will interfere with normal Emergency Dispatch/Electric Control operations. When the EOC is activated, Electric Dispatch and Control continues to have control of all system decisions and communicates these directions directly to the emergency scene. The Operations Manager, Operations Supervisor, On Call Supervisor or other qualified individual would be designated as the On Scene Incident Commander.

After the Emergency Dispatch Coordinator/Electric Control Operator and the Incident Commander confer, they are each responsible for making additional notifications as dictated by their procedures. These notifications inform personnel of the emergency event and of any response actions being taken. The Incident Commander notifies the LU Vice President, and other management personnel in Customer Care, Government & Community Relations and Operations as appropriate. The Incident Commander also ensures that additional notifications are made to include the initial notification and continuous updates, if necessary.

The Electric Control Operator or the Emergency Dispatch Supervisor initiates the notifications for the activation of the required facilities.

# 2. Emergency Coordination

This section describes how the fully activated Incident Command System would function.

The main Liberty Utilities Emergency Operations Center (EOC) is located in Londonderry. The Incident Commander is responsible for ensuring that needed resources are committed to supporting the emergency response and maintaining an awareness of Police and Fire Department emergency response efforts.

Personnel from Customer Care Media group, Government & Community Relations obtain the latest information on the status of the emergency and rapidly and accurately relay this information to the media, government officials, and Liberty Utilities customers. If personnel from the Customer Care Media group respond to the scene, their counterparts in the EOC will act as their liaisons to ensure that they are aware of LU activities and all statements to the press are approved.

The On Scene Incident Commander should ensure that the activities of utility and public emergency response personnel are coordinated so that the emergency conditions are quickly and safely mitigated. In order to focus on the overall coordination of on scene activities, the On Scene Incident Commander primarily remains at the On Scene Command Center during the emergency. Accurate records and logs of emergency events are maintained by the EOC. The On Scene Incident Commander maintains contact with the LU Liaisons dispatched to the Fire, Police Department or Incident Command Post(s) and with any Liberty Utilities personnel responding to the scene.

LU Incident Responders are those personnel directly responsible for manipulating systems and equipment to make the situation safe. The On Scene Incident Commander supervises the Incident Responders and maintains contact with the Incident Commander if appointed. The regional Field Operations offices provide personnel and supplies to the scene. This support is requested either directly from the On Scene command post or via the EOC as appropriate.

#### 3. On Scene Emergency Coordination and Interface

LU procedures provide for the initial notification of public emergency response personnel. These procedures also provide for follow-up communication with responding Police and Fire personnel to determine the location of a Command Post, if one has been established.

When responding to an emergency related electric incident, LU personnel will report to and will cooperate with the designated Fire Department Official. If the Incident Command System is activated in response to the emergency situation, LU personnel will immediately report to the On Scene Incident Commander upon arriving at the incident site and will offer assistance.

Upon arrival at the scene, the local emergency responders may establish a Command Post based on municipal organization requirements that are jointly manned by Police and Fire personnel. This Command Post may be an emergency bus/van or a group of response

vehicles parked together.

The Police Commanding Officer and the local Fire Chief are jointly in charge of their respective functions.

The City/County/Local personnel may establish a two-zone perimeter around the emergency scene. Within these two-zone perimeters, the inner perimeter, or hot zone, is the area immediately around the incident scene in which only personnel actively involved in responding to the incident are allowed. The outer perimeter, or warm zone, is a staging area from which nonessential people may be evacuated and where Fire, Police and other emergency response personnel conduct their operations. The Command Post is normally established within this outer perimeter.

## 4. Emergency Operations Center (EOC)

An electric emergency which would require the activation of the LU Incident Command System (ICS) EOC will be principally located in Londonderry. There may also be regional EOCs and on scene EOCs.

Electric Operations personnel are responsible for maintaining the supplies and equipment stored in the Salem and Lebanon EOCs.

The EOC is staffed by personnel in accordance with the Incident Command System with specific responsibilities for directing or coordinating the response to the electric emergency. Facilities Management and Information Technology personnel are responsible for the activation of all EOC equipment.

Upon notification that an EOC is to be activated, the Incident Commander or designee will:

- Contact Facilities Management and Security, if required, and request support of EOC activities.
- Contact Information Technology and request support, setup and activation of EOC computers if necessary.

If more than one Region is impacted by an emergency, a System EOC may be activated, coordinating activities across the impacted Regions. During Regional Emergency events the EOC will:

- Monitor customer interruptions
- Assess the Regional operating status and assess the damage to the Transmission and Distribution systems
- Provide information on customer interruptions, issue periodic status updates on the ongoing restoration to senior management, Media Affairs (i.e. Media Relations, Internal Communications, and Regulatory Affairs), and applicable regulatory agencies
- Allocate resources for the restoration effort, including Company crews, tree crews, contract crews, and crews from foreign utilities
- Provide status update reports at pre-designated intervals to applicable functional groups

The operation of the EOC is the responsibility of the Incident Commander or designee for a Regional and/or a System emergency. The position is assumed initially by the Incident Commander contacted by the Region experiencing the emergency.

The hours of operation of the EOC will be based upon the circumstances associated with the severity of the emergency and the Operating Condition and Classification Type.

#### 5. Communications System

The primary means of communications is through the use of telephones. The EOC is equipped with separate phone lines. The telephones allow communications between the EOC and the cellular phones.

Backup means of communication in Dispatch and Control include radio and cellular phones.

Dispatch Cellular Phone: 603-475-6411 Control Cellular Phone: 603-327-4679

- Upon request, install additional telephones or equipment. Check each telephone for dial tone.
- Activate any additional computers and equipment.
- If any computer equipment is non-operational, the "Help Desk" personnel should be informed.

#### 6. Mutual Assistance

In the event of major Incidents, natural disasters or other emergencies, the Incident Commander or designee may require assistance from employees, contractors, or another operator.

Refer to **Appendix L** and the CQ&EM Community site for additional information on securing Mutual Assistance.

# 7. Meals & Lodging

The Logistics Officer is responsible for crew lodging and attaining the resources to support this function.

The procurement and booking of rooms will be made by the Logistics Team. Crew transfer sheets will be used to track the number of crews per hotel and to communicate with the hotel for accurate crews per room data.

- Consider advance booking of a block of rooms on a contingency basis as soon as requests for outside crews are made by the Incident Commander. Individuals assigned to arrange for crew accommodations should coordinate reservations with Procurement. Procurement has pre-established rates and terms on a number of hotels/motels. Where rates and terms are not prearranged, Procurement will negotiate to establish the same. Individuals assigned to accommodations should become familiar with the pre-established terms developed by Procurement to help avoid over-committing the Company.
- Prepare and update a list of all incoming crews their normal work headquarters, travel route, and expected time of arrival.
- Work with the Planning Resource Officer to arrange for a guide to meet the incoming crews, if unfamiliar with the Region, at prearranged locations and lead the crews to their assigned work locations or headquarters. If practicable, the same guide should be assigned to the same crew each day. This may necessitate the lodging of the guide at the same motel as the crew.
- Register, upon arrival and departure, all incoming and outgoing crews. It is
  extremely important that all foreign utility and contractor employees are tracked.
- Arrange for lodging accommodations as close to the crews' work location as possible. Generally, 2 persons will be assigned to a room.
- Distribute lists of available meal locations, preferably those which have prearranged credit available. In the event of a large-scale emergency, it may be necessary to send crews to prearranged locations, such as banquet halls, fire halls, etc. where catering services are available. The Meals & Lodging Lead or designee will have the responsibility of updating lists of restaurants, catering services, and halls. Procurement will maintain purchase orders with approved vendors.
- Maintain the listing of all motels and hotels in the Regions. The listing will be by Region and show capacities, quality of service, rates, phone numbers, and seasonal availability. The data will be updated by Procurement as new POs are

executed.

## 8. Safety and Health

The Safety and Health Officer is responsible for the implementation of items within this section of the Plan.

- Whenever there is a declared electric emergency event, the appropriate Safety and Health personnel will be notified and mobilized in accordance with the classification of the emergency. The Incident Commander and the Manager of Environmental, Health, Safety and Security will, if appropriate, determine the scope of the emergency and will immediately assign Safety and Health personnel to work in locations affected by the emergency.
- Safety will monitor work activities on a local basis and respond accordingly.
- The Incident Commander will contact the Manger of Safety and Health for assistance outside the Region from which manpower will be used to help with restoration efforts.
- Safety will work with local supervision regarding the restoration effort and will conduct field observations/audits, incident analyses, and training as needed.
- Safety will act as a liaison concerning any safety-related activity or situation.
- The Manager of Environmental, Health, Safety and Security will arrange to provide dedicated Safety and Health staff for designated and specified work locations. This dedicated staff will be available for field sites and other staging locations as needed.

#### 9. Security

Liberty Utilities Dispatch Center will be the contact for all security incidents.

# Dispatch Center 24 Hour contact number is (603) 216-3620 or 1-855-349-9455

Whenever severe damage is sustained to the Electric System, the Incident Commander may deem that assistance from the Security organization is required. In this event, the Incident Commander will contact the EHSS Officer to appoint a Security Officer.

The Security Officer will determine the scope of the emergency and will, if appropriate, assign a Security Investigator to the scene or location of the emergency.

This Investigator will assist Electric Operations in the execution of their Emergency Plan as follows:

- Act as a liaison between EOC and local law enforcement concerning any emergency- related activity or situation.
- Arrange to provide dedicated Security. This dedicated assignment coverage will be available for field sites as well as motel areas and other staging locations.
- Conduct investigations as may be necessary.
- Provide On Scene Security photographic services as may be necessary to secure evidence, etc.
- Assist and support other Company resources during the emergency with the gathering of visual and documented data for post-emergency claims and asset recovery purposes.

See **Appendix G** for information on Incident Investigation Procedures.

#### 10. Material Management

The Logistics Officer is responsible for implementing items within this section of the plan.

Whenever additional quantities of materials are required for restoration efforts, Inventory Management personnel should be called in to operate storerooms. Emergencies of long duration may require 24 hour operations. Additional storeroom personnel can be dispatched to assist, when necessary, at crew locations.

Discussions between the Incident Commander, Planning/Resource Officer, Logistics Officer and Field Operations personnel - Storeroom Operations will take place to determine needs.

Box Trucks, stake trucks, or pickup trucks can be used to transport quantities of materials from local and other storerooms to the affected Regions.

Traveling stores trucks can also be set up at any location as an emergency storeroom.

When material is in short supply, storeroom personnel will provide Procurement with additional requirements. Supplier emergency phone numbers are maintained by Procurement and emergency purchase orders will be issued to suppliers and other utilities.

# 11. Holiday Periods

The timing of a Storm Event could impact the contacting, securing and the arrival of internal and external crews and support staff. The potential lag time due to a major holiday period must be considered. In planning for Storm Events occurring during Major Holiday periods, there may be a need to enhance / anticipate the pre-planning and pre-staging of line crews, to cancel vacations or to have available the full internal crew capability. The intent is to maximize the availability of crews while recognizing the reality that even with pre-planning, some employees are unavailable due to sickness, injury, or travel.

See the list below for Liberty Utilities Holidays.

HOLIDAY SCHEDULE 2016 NEW HAMPSHIRE	Date	Management	Electric Operations	Gas Operations	Customer Service
New Year's Day	January 1	Х	Х	х	х
MLK Day	January 18	Х		Х	х
President's Day	February 15	X	X	X	X
Memorial Day	May 30	X	X	X	X
Independence Day	July 4	X	X	X	X
Labor Day	September 5	Х	Х	Х	Х
Veteran's Day	November 11	Х	Х		Х
Thanksgiving Day	November 24	Х	Х	Х	Х
Day After Thanksgiving	November 25	Х	Х	х	х
Christmas Eve Day	December 24		Х		
Christmas Day	December 25	Х	X	X	X

# K. PLAN MAINTENANCE AND ADMINISTRATION

The Emergency Plan is maintained through initial training, periodic drills and exercises, record maintenance, and the review and update of the Plan. The methods of maintaining the Plan are described in this section.

In order for the Incident Command staff to be prepared to successfully implement this Plan, personnel assigned to the ICS must be familiar with their job position, associated procedures, and equipment. This preparedness is achieved and maintained using a combination of initial training, drills, and exercises.

#### Training

All personnel potentially filling a position in this Plan should be familiar with this Plan. The initial training simply consists of reading the Plan. There is no substitute for reading the Plan and asking questions.

An individual's assignment to an Emergency organization position is associated with the person's current job position within the normal organization. ICS Position descriptions and checklists are located on the CQ&EM site. Also, on the Learning and Development site, there are PowerPoint presentations prepared by Electric Training covering damage assessment, wires down and electric hazards.

## • Drills and Exercises

Drills are conducted to ensure effectiveness of the Plan and to keep personnel aware of their responsibility should an actual emergency situation arise. Actual events may substitute for the drills and exercises. These drills verify the ability of LU personnel to perform initial notifications and classify emergencies. The Emergency Plan drill may be combined with other required drills.

If necessary, one ICS exercise may be conducted annually at one of the company facilities. This exercise is an event that tests the integrated capability of LU to respond to a significant electric emergency. The exercise comprehensively evaluates the ability of the ICS to implement the emergency response plan and coordinate response activities with other organizations. The exercise may involve activation of an Emergency Operations Center and the use of an On Scene Command Post. The exercise scenario is structured so as to allow free play for decision making as much as possible, provided that the basic objectives of the exercise are satisfied.

NH Puc 306.09 9(e) states that each Plan shall provide that one full readiness exercise and one table top exercise be conducted annually. The utilities shall invite applicable state agencies and commission staff to participate in such exercises.

The results of each drill and exercise are documented and a Self-Assessment Report is prepared. The report includes observations and recommendations of the effectiveness of the emergency response.

# • Periodic Reviews

The Emergency Plan must be reviewed by CQ&EM at intervals not exceeding 15 months, but at least once each calendar year, and updated as necessary, to reflect technical, administrative, or regulatory changes.

# L. LIAISON WITH FIRE, POLICE, PUBLIC OFFICIALS AND OTHER UTILITIES

Liberty Utilities and its local emergency responders have to be prepared for many different events that could occur in the electric distribution system. The Company and the emergency responders must be prepared for different scenarios.

Liberty Utilities shall establish liaison with other utilities within its area of operation in order to preplan and coordinate response to emergencies.

The information provided to emergency responders should be comprehensive enough to give them the knowledge needed to address specific hazards that may be present and it should not include unnecessary information. Emergency responders have indicated that the information provided should be kept as short and simple as possible.

Liberty Utilities does not agree with any requirement for operators to share their actual emergency response plans with local emergency responders. These plans are far more detailed than what is needed by emergency responders and they contain confidential corporate information that could easily be used against the interests of public safety if lost or stolen. Sensitive information showing the exact location of critical facilities is information that must be in the direct control of the utility and shared only with those who have an operational responsibility in the event of an emergency.

See **Appendix D** and NH Puc 306.09(f) for more information on Liaison.

#### **APPENDIX A**

#### **ELECTRIC EMERGENCY CLASSIFICATION AND NOTIFICATION PLAN**

#### 1. Responsibility

The purpose of this procedure is to provide detailed information, as well as guidance regarding the actions to be taken for internal and external notifications that are to be made by the Liberty Utilities Dispatch & Control organization upon occurrence of an electric system interruption, incident or other events.

The Vice President of Operations, his/her appointed designee, or the Incident Commander when appointed, is primarily responsible for establishing the projected and/or actual Incident Classification Type. Dispatch & Control Center Operations is primarily responsible for monitoring all weather events and evaluating their potential severity and impact on the system. Emergency Management will also monitor weather and other incidents and events that might adversely impact the system. Any incident or event that poses a potential significant risk will be immediately communicated to the Director of Electric Operations, VP of Operations and to the President of Liberty Utilities.

#### 2. Definitions

**Critical Facility:** A location or facility where the loss of electrical service would interrupt vital services to the public, e.g. hospitals.

**Company:** An investor-owned electric distribution or transmission company conducting business in New Hampshire.

**Emergency Event:** An event where widespread outages or service interruptions have occurred in the service area due to storms or other causes beyond the control of the company. An Emergency event is classified as Type 5, 4, 3, 2 or 1.

**Emergency Operations Center (EOC):** The physical location at which the coordination of information and resources to support incident management activities takes place.

**Incident Anticipation Phase:** (Prior to Event Stage) The period of time between when (1) an impending Emergency event is first identified, and (2) the Emergency event first causes damage to the system resulting in service interruptions.

**Incident Commander (IC):** The individual who has overall responsibility for the company's response in an Emergency event.

**Incident Command System (ICS):** The coordinated and collaborative incident management construct specifically designed and made a part of the National Incident Management System ("NIMS") under the Federal Emergency Management Agency. ICS enables effective, efficient incident management by integrating a combination of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure, designed to aid in the management of resources during incidents.

**Incident Response Phase:** (During-Event Stage) The period of time between when an Emergency event first causes damage to the system resulting in service interruptions and the time when service is restored to all customers.

**Life Support Customers (LSCs):** Those customers who have provided documentation of their medical conditions necessitating electric service.

**Mutual Assistance Agreement:** An agreement among a utilities, both inside and outside the state, that details specifics for obtaining or lending resources, including, but not limited to, material, equipment, and trained personnel, when internal resources are not sufficient to ensure the safe and reasonably prompt restoration of service during an Emergency event.

**Post Incident Phase:** (Post-Event Stage) The period of time immediately following restoration of service to all customers after an Emergency event.

**Region Level:** Level of response that involves the control and coordination of restoration efforts in Lebanon and/or Salem.

**Service Interruption**: The loss of service to one or more customers connected to an electric distribution system.

**Trouble:** Specific damage to the system, such as downed wires, a broken pole or blown fuse, a single "trouble Ticket" could result in an outage affecting one customer or multiple customers.

Wide-Scale Emergency: An event which results in, or is expected to result in:

- (a) A sustained interruption of electric service to 10% or more of the utility's customers, or 40,000 of the utility's customers, whichever is less and restoration of electric service to any of these customers takes more than 24 hours: or
- (b) The federal, state or local government declaring and official state of emergency in the utility's service territory and the emergency involves and interruption of electric service.

#### 3. Classification of Events

The following are guidelines to determine the severity of Emergencies and their Operating Conditions for the Company.

The guidelines are intended to be consistent with Table 306-1 in NH Puc 306.09:

Emergency Response Standards and Electrical Outage Restoration

**Type 5 Small Impact Event** (Localized Response Condition / Normal Operations) - System activity is normal with response coordinated with local on-call personnel. Incident Command Structure not activated.

(0 - 840 customers)

**Type 4 Moderate Impact Event** (Heightened Alert) - The severity within a Region(s) is (are) such that restoration activities are generally accomplished within a 24 hour period. This may require assistance from another Region or contractors. Incident Command Structure may be activated at the Region level.

(841 - 2100 customers)

**Type 3 Serious Impact Event** (Enhanced Support) - The severity within a Region(s) is (are) such that restoration activities are generally accomplished with assistance from other Regions and contractors within 24 to 48 hour period. Incident Command structure activated at the Regional level

(2100 - 4200 customers)

**Type 2 Major Impact Event** (Comprehensive Support) – The severity within the Region (s) is (are) such that restoration activities are generally accomplished with assistance from other Regions and contractors within a 48 to 144 hour period. This may require mutual assistance from other utilities. Incident Command Structure activated at the Regional level and may be activated at the System level.

(4200 - 8400 customers)

**Type 1 Catastrophic Impact Event** (Emergency Support) – The severity within a Region(s) is (are) such that restoration activities are accomplished with assistance from other Regions, contactors and require mutual assistance from other utilities. Restoration activities will generally require 48 to 240 hour period. The Incident Command Structure will be activated at the Regional and System levels. (>8400 customer)

See below.

# **Emergency Classification Guidelines with Event Levels**

Type 5 – Small Impact Eve Emergencies include:	ent (Localized Response Condition)
Viewpoint	Type 5 events represent normal operating conditions and any events will be managed by Liberty Utilities' Dispatch & Control Center, which is staffed 24/7. DCC uses Responder as the primary tool to identify the magnitude of customers interrupted and the most probable protective device that operated. For small outages, DCC will dispatch crews designated as trouble resources to repair the outage. If upon arrival the crew determines additional resources are needed, a supervisor is assigned and will manage the repairs in concert with DCC. DCC performs all routine reporting requirements. Customer Care will retain all municipal responsibilities.
Event Characteristics	<ul> <li>System activity is normal</li> <li>≤ 2 % Customers out (840)</li> <li>&lt;12 Hrs. Outage Duration</li> <li>Typically &lt;10 Locations of Trouble</li> </ul>
Response Organization	ICS Command and general staff positions are not activated
Resource Activation	<ul> <li>Local supervision</li> <li>Local crews (&lt; 5)</li> </ul>
Communication	<ul> <li>Dispatch &amp; Control - Internal notification with Electric Operations only</li> <li>A written Incident Action Plan is not required (IAP)</li> </ul>
Corporate Communication	n
✓ Crisis Attracts little	e or no attention
✓ Public and/or med	dia are virtually unaware

Type 4 – Moderate Impact Eve	nt (Heightened Alert)
Emergencies include:	
Viewpoint	Type 4 events include (but are not limited to): sub-transmission outages that impact one or more substations: thunderstorms with high winds and frequent and/or severe lightning: small to moderate winter storms: and unanticipated transmission events. These events are managed by the Dispatch & Control Center in conjunction with local management often sharing responsibilities. Operations management will staff in a partial decentralized mode, using some of the ICS structure to support restoration.  DCC performs all routine reporting. Customer Care will retain
Event Characteristics	<ul> <li>&gt;2 ≤ 5 % Customers out (840 – 2100)</li> <li>0 – 24 Hrs. Outage Duration</li> <li>Typically 10 – 50 Locations of Trouble</li> <li>This type of event typically occurs less than 15 times a year</li> <li>The event is usually limited to one operational period</li> </ul>
Response Organization	<ul> <li>Regional Incident Command Structure may be activated in the affected regions</li> <li>Command staff and general staff functions are activated only if needed</li> <li>System Level Incident Command Structure is not activated</li> </ul>
Resource Activation	<ul> <li>Restoration is generally accomplished with local resources</li> <li>Additional contract distribution line and forestry resources may be required</li> <li>Contract distribution line resources may be between 5 – 10 crews</li> <li>Contract forestry resources may be between 0 – 5 crews</li> <li>Wires Down and Damage Assessment functions are typically not activated</li> </ul>
Communication	<ul> <li>Electric Operations may have briefings or conference calls to ensure the complexity of the event is fully communicated to management and that response staff receive the appropriate level of support required for the situation</li> <li>Dispatch &amp; Control         <ul> <li>Storm planning report may be required</li> <li>Storm summary report may be required</li> <li>Courtesy planning report may be sent to the NHPUC</li> </ul> </li> </ul>

# **Corporate Communication**

- ✓ Crisis situation may/may not have occurred; the situation is attracting slow but steady media coverage
- ✓ The public at large is aware of the situation/event but is attracting very little attention

Type 3 – Serious Impact Event	(Enhanced Support)
Emergencies include:	
Viewpoint	Type 3 events represent the greatest range of uncertainty often due to a severe event being forecasted but may have a medium to high confidence level. This may result in either limited activity or could be escalated to a Type 2 event. The approach is to prepare for the event by activating the ICS structure in one or more of the regions that may be impacted. Weather forecasts, institutional knowledge of the system's performance and forecasted confidence levels are used to determine a pre-event approach. Storm Conference calls are used to determine the response actions and level of employee mobilization. The Incident Commander is ultimately responsible for the final decisions with
Event Characteristics	<ul> <li>&gt;5 ≤ 10 % Customers out (2100 – 4200)</li> <li>24 – 48 Hrs. Outage Duration</li> <li>Typically 50 – 100 Locations of Trouble</li> <li>This type of event typically occurs less than 10 times a year</li> <li>This event may extend into multiple operational periods</li> </ul>
Response Organization	<ul> <li>Incident Command Structure is activated at the Regional level to match the complexity of the event</li> <li>Regional EOC established</li> <li>Some or all of the command and general staff positions may be activated</li> <li>Additional restoration support functions such as wires down, damage assessment, storm room personnel may be established as directed by the Incident Commander</li> <li>Municipal rooms may be opened to support additional local involvement and prioritization with communities</li> <li>Community Liaisons may be activated to communities with the highest</li> </ul>
Resource Activation	<ul> <li>Typically requires assistance from contractors or employees from another region</li> <li>Contract distribution line resources may be between 10 – 20 crews</li> <li>Contract forestry resources may be between 5 – 10 crews</li> </ul>
Communication	<ul> <li>Electric Operations will have briefings/conference calls to ensure the complexity of the event is fully communicated to management and that response staff receive the appropriate level of support required for the situation</li> <li>Dispatch &amp; Control         <ul> <li>Storm planning report may be required</li> <li>Storm summary report may be required</li> <li>Planning reports sent to the NHPUC as requested</li> </ul> </li> <li>A written Incident Action Plan may be required (IAP)</li> </ul>
Corporate Communication	
•	ntion from local and regional media
3	ected parties threaten to talk to the media
✓ Email notification to 911@a	·
Email notinication to only	iligoriqui il porto il controlo il control

Type 2 – Major Impact Event (Co	omprehensive Support)
Emergencies include:	
Viewpoint	Type 2 events result from a severe forecasted event, which has historically resulted in significant damage to the electric system. For these events, both regional EOCs are openin advance of the event. If it is expected that the event will be particularly high profile, the System level EOC will also be open. The event is coordinated through twice daily conference calls to coordinate activities using a predefined meeting check list. Meetings and conference calls usually begin days in advance of the forecasted impact date. Communication protocols are activated and extended discussion with local municipals occurs. The Incident Commander and his/her direct staff is responsible to make the appropriate preparations and manage the restoration.
Event Characteristics	<ul> <li>&gt;10 ≤ 20 % Customers out (4200 – 8400)</li> <li>48 – 144 Hrs. Outage Duration</li> <li>Typically 100 – 200 Locations of Trouble</li> <li>This type of event typically likely occurs less than 5 times a year</li> <li>This event will extend into multiple operational periods</li> </ul>
Response Organization	<ul> <li>Incident Command Structure is activated at the Regional level to match the complexity of the event. ICS may be activated at System level</li> <li>One or both Regional EOCs established</li> <li>System level EOC may be established</li> <li>Most or all of the command and general staff positions are activated</li> <li>Additional restoration support functions such as wires down, damage assessment, storm room personnel will be established as directed by the Incident Commander</li> <li>Decentralized Substation Operations may be activated in the most severely impacted areas at the discretion of the Incident Commander</li> <li>Municipal rooms are opened to support additional local involvement and prioritization with communities</li> <li>Community Liaisons are activated</li> <li>EOC Liaison is activated if State EOC is opened</li> </ul>
Resource Activation	<ul> <li>Requires assistance from contractors or employees from another region</li> <li>Contract distribution line resources may be between 20 – 30 crews</li> <li>Contract forestry resources may be between 10 – 20 crews</li> <li>Wires Down and Damage Assessment functions are activated</li> <li>Support Functions are staffed by company personnel</li> </ul>
Communication	<ul> <li>Electric Operations will have briefings/conference calls to ensure the complexity of the event is fully communicated to management and that response staff receive the appropriate level of support required for the situation</li> <li>Dispatch &amp; Control         <ul> <li>Storm planning report is required</li> <li>Storm summary report is required</li> <li>Planning reports sent to the NHPUC</li> </ul> </li> <li>A written Incident Action Plan is required (IAP)</li> <li>An After Action Review is required</li> </ul>
	Corporate Communication
	nployees and non-communication staff for information about the crisis
✓ Broadcast and print media ar	
	eholders and community partners are present as site
✓ Email notification to 911@alg	onquinpower.com, with phone call per protocol to confirm receipt

Type 1 events result from a catastrophic forecasted event which has historically resulted in significant damage to the electric system. Type 1 events are infrequent. For Type 1 events, both Regional ECCs and a System ECC are open in advance of the event. This is a full implementation of the Incident Command System. The event is coordinated through twice daily conference calls to coordinateactivities using a predefined meeting check list. Meetings and conference calls to coordinateactivities using a predefined meeting check list. Meetings and conference calls to extended discussion withlocal municipals occurs. The Incident Commander and his/her direct staff is responsible to make the appropriate preparations and manage the restoration.  Event Characteristics  Event Characteristics  Event Characteristics  -> -> -> -> -> -> -> -> -> -> -> -> ->	Emergencies include	Impact Event (Emergency Support) .
Event Characteristics  - > 20 % Customers out (> 8400) - 48 - 240 Hrs. Outage Duration - Typically > 200 Locations of Trouble - This type of event occurs infrequently - This event will extend into multiple operational periods  Response Organization  - Incident Command Structure is activated at the Regional level to match the complexity of the event. ICS may be activated at System level - One or both Regional EOCs established - System level EOC may be established - System level EOC may be established - Additional restoration support functions such as wires down, damage assessment, storm room personnel will be established as directed by the Incident Commander - Decentralized Substation Operations may be activated in the most severely impacted areas at the discretion of the Incident Commander - Municipal rooms are opened to support additional local involvement and prioritization with communities - Community Liaisons are activated - EOC Liaison is activated if State EOC is opened  Resource - Requires assistance from contractors or employees from another region - Contract forestry resources may be between >30 crews - Contract forestry resources may be between >20 crews - Wires Down and Damage Assessment functions are activated - Support Functions are staffed by company personnel  Communication  - Electric Operations will have briefings/conference calls to ensure the complexity of the event is fully communicated to management and that response staff receive the appropriate level of support required export required - Storm summary report is required - Storm summary report is required - Storm summary report is required - Planning reports sent to the NHPUC - Pre-Event outreach to municipalities, Regulators, Government Officials and customers - A written Incident Action Plan is required (IAP) - An After Action Review is required - National or international media are covering as major news - Major government attention is present - Incident Action Plan is required - Planning report is required	Viewpoint	Type 1 events result from a catastrophic forecasted event which has historically resulted in significant damage to the electric system. Type 1 events are infrequent. For Type 1 events, both Regional EOCs and a System EOC are open in advance of the event. This is a full implementation of the Incident Command System. The event is coordinated through twice daily conference calls to coordinate activities using a predefined meeting check list. Meetings and conference calls usually begin days in advance of the forecasted impact date. Communication protocols are activated and extended discussion with local municipals occurs. The Incident Commander and his/her direct staff is
event. ICS may be activated at System level One or both Regional EOCs established System level EOC may be established Most or all of the command and general staff positions are activated Additional restoration support functions such as wires down, damage assessment, storm room personnel will be established as directed by the Incident Commander Decentralized Substation Operations may be activated in the most severely impacted areas at the discretion of the Incident Commander Municipal rooms are opened to support additional local involvement and prioritization with communities Community Liaisons are activated ECOC Liaison is activated if State EOC is opened  Resource Activation Resource Activation Requires assistance from contractors or employees from another region Contract distribution line resources may be between >30 crews Wires Down and Damage Assessment functions are activated Support Functions are staffed by company personnel  Communication Electric Operations will have briefings/conference calls to ensure the complexity of the event is fully communicated to management and that response staff receive the appropriate level of support required for the situation Dispatch & Control Storm planning report is required Storm summary report is required Flanning reports sent to the NHPUC Pre-Event outreach to municipalities, Regulators, Government Officials and customers A written Incident Action Plan is required Public health & safety is concerned A National or international media are covering as major news Major government attention is present There is real or potential environmental harm	Event Characteristics	<ul> <li>48 – 240 Hrs. Outage Duration</li> <li>Typically &gt; 200 Locations of Trouble</li> <li>This type of event occurs infrequently</li> </ul>
Contract distribution line resources may be between >30 crews Contract forestry resources may be between >20 crews Wires Down and Damage Assessment functions are activated Support Functions are staffed by company personnel  Communication  Electric Operations will have briefings/conference calls to ensure the complexity of the event is fully communicated to management and that response staff receive the appropriate level of support required for the situation Dispatch & Control Storm planning report is required Storm summary report is required Planning reports sent to the NHPUC Pre-Event outreach to municipalities, Regulators, Government Officials and customers A written Incident Action Plan is required (IAP) An After Action Review is required  Corporate Communication Valuic health & safety is concerned Valuic health & safety is concerned Valuic nor international media are covering as major news Valuic nor potential environmental harm	Response Organization	<ul> <li>event. ICS may be activated at System level</li> <li>One or both Regional EOCs established</li> <li>System level EOC may be established</li> <li>Most or all of the command and general staff positions are activated</li> <li>Additional restoration support functions such as wires down, damage assessment, storm room personnel will be established as directed by the Incident Commander</li> <li>Decentralized Substation Operations may be activated in the most severely impacted areas at the discretion of the Incident Commander</li> <li>Municipal rooms are opened to support additional local involvement and prioritization with communities</li> <li>Community Liaisons are activated</li> </ul>
fully communicated to management and that response staff receive the appropriate level of support required for the situation  ■ Dispatch & Control  ■ Storm planning report is required  ■ Planning reports sent to the NHPUC  ● Pre-Event outreach to municipalities, Regulators, Government Officials and customers  ■ A written Incident Action Plan is required (IAP)  ■ An After Action Review is required  Corporate Communication  ✓ Public health & safety is concerned  ✓ National or international media are covering as major news  ✓ Major government attention is present  ✓ There is real or potential environmental harm	Resource Activation	<ul> <li>Contract distribution line resources may be between &gt;30 crews</li> <li>Contract forestry resources may be between &gt;20 crews</li> <li>Wires Down and Damage Assessment functions are activated</li> </ul>
<ul> <li>✓ Public health &amp; safety is concerned</li> <li>✓ National or international media are covering as major news</li> <li>✓ Major government attention is present</li> <li>✓ There is real or potential environmental harm</li> </ul>	Communication	<ul> <li>Electric Operations will have briefings/conference calls to ensure the complexity of the event is fully communicated to management and that response staff receive the appropriate level of support required for the situation</li> <li>Dispatch &amp; Control         <ul> <li>Storm planning report is required</li> <li>Storm summary report is required</li> <li>Planning reports sent to the NHPUC</li> </ul> </li> <li>Pre-Event outreach to municipalities, Regulators, Government Officials and customers</li> <li>A written Incident Action Plan is required (IAP)</li> </ul>
<ul> <li>✓ Major government attention is present</li> <li>✓ There is real or potential environmental harm</li> </ul>	✓ Public health & safe	ty is concerned
✓ There is real or potential environmental harm		
	, -	· · · · · · · · · · · · · · · · · · ·
✓ One or more ground are expressing anger or outrage	· · · · · · · · · · · · · · · · · · ·	
✓ One or more groups are expressing anger or outrage	✓ One or more groups	s are expressing anger or outrage

# 4. Determination of Storm Resource Requirements

The above Section 3 titled Classification of Events is used to predict the potential impacts on the Liberty Utilities electrical distribution system and customer base. For a discussion on Pre-Storm Restoration Prediction Models, see the NHPUC After Action Report of the November 26, 2014 Thanksgiving Snowstorm (page 22).

Prior to the onset of a forecasted weather event, factors embedded into the weather forecasting service, accompanied with a confidence level, combine to generate a predicted Energy Event Index (EEI) Level. See the Table below.

Be aware that an EEI Level of 1, 2, 3, 4, or 5 is not the same as a Liberty Utilities Type 5, 4, 3, 2, or 1.

# **Energy Event Index Definition**

No Leaves (Oct 1 - Mar 31) (winter override)

Energy Index Liberty

	Wind Speed	Wind/ Gust	Sno w	Ice
E	< 40	< 45	< 6	< 1/10
El 1	mph	mph	in.	in.
Е	>= 40	>= 45	>= 6	>=
El 2	mph	mph	in.	1/10 in.
	·	·		
Е	>= 50	>= 55	>= 8	>= 3/8
El 3	mph	mph	in.	in.
Е	>= 60	>= 70	>=	>= 1/2
El 4	mph	mph	12 in.	in.
E	>= 70	>= 85	>=	>= 1
El 5	mph	mph	24 in.	in.

	Confidence Level
Low	< 30% chance
Me dium	>= 30% to < 60% chance
Hig h	>= 60% chance

Event Table – Utilities

...\Thanksgiving\Energy Event Index (EEI) Table.docx

Also, see below.

					Revision No.	10				
		Ulberty Utilities	CLASSIFICATION OF EMERGENCIES	MERGENCIES	Issue Date: Supersedes Date:	-	12/31/2015			
		Based on Energy	Based on Energy Event Index Table from Telvant (Some values deviate sightly.)		L Cody		П			
Charm Event				And of the land	We	ather Indio	es (may inclu	ude one or m	Weather Indices (may include one or more of these factors)	octors)
Type	Outages and Duration	Operating Conditions	ditions	Line Crew	Wet Snow (Inches)	Accretion (inches)	Tree Follage (Leaves On)	Tree Follage (Leaves Off)	Wind Impact (mph)	Wind Gusts (mph)
19	0-840 Custoners	Type & Events imment name agency and it 1,5ery Littles Occase & Densi Covin (COC) Trickedon of the prosy just in stery for feet the nost probabilist principe density for degree to nost probabilist principe.	The Event is remapped by which opplied DAT INCO also state in conservati interspent and for small outsiges. DOD with	Contract of Contra	9	10*		1	9	*
(Name Operations)	4-13 House	mental community and community of the co	A TAGON AND THE STANDARD AND THE STANDAR	D-District	300	-0.1	>	ř	ű	40
A Moderate Moderate Impact Event	940 - 2100 Continues	Type 4 Events makes sub-terrestration subgard a subdentiered subdentie	THE PROPERTY OF A PARTY OF THE	October + + 13	See.	a+100.3FE		*	48 10 50	50 m 50
Page	Oth Del Heart	rigargement often fruitsy regularistics. Open, partie theoremisted moth, very sorte of the CS GOC parties at realize regularing. Contrares Can theoremistics.	Constitution and and as a second and and as a second and an addition to a second and a second an	S - Deservi	40.4	8119028	>		301046	8 8 8
3 Berious	2100 4200 Customent	Type 3 Centra recreased the greatest range of uncertainty after its assers East being threusatest but may have a needom to high confidence level. This may result in the instead additionable or counties executed to a high 2 Exercit. This may result in propagal for the Exercit by anticleting the 152 and uncertainty are some more of the resignant that	certainly after due to a server Event confidence level. The may result in the 2 divers. The application is in an one or more of the regions that	Company = <13 Contractor = 4	F to 12:	0.37510.0.5		>	50 to 60	55 to 65
E	24 to 48 Hours	the personnel of whomen theorems, instruction to exceed the appearance personnel or the appearance personnel or the appearance personnel or the appearance appearance appearance appearance and the appearance are appearance are unable to determine the response appearance and over of exceeding the response appearance and since of exceeding the appearance and the first decisions with right have their since and continued to a submaning response for the first decisions with right have their since and	indexection of the spiritual send in determine products and send in determine a pre-Event sender is ultimately responsible for some in ultimately responsible for	Plus NAMAGINAtabani Contractor Grees = 10 to 20	6" to 6"	0.25-0.375	>		45 to 55	50 to 60
2 Major	4200 - 8409	Type 2 Events sportcart don the Brent in a sort SDC will	7 50	Company = 13 Commone = 4	12. to 15.	G 5 to 0.625		1	60 to 65	15 th 12
Depart Even.		The Decompose inches as well as present-benefory check in Newsys and Controvers Calls causely dept days inches to deep for the access to the access that the Controvers Calls causely days days inches to the access of the Section of the Section Controlled and Access Controlled to the Controlled Con	eftig check bit. Mestings and The Toucosted Financia dis- bot dimension with bod impression of staff are responsible to make the lift.	Plus NAMAGRADEDONAL Contractor Crees = 20 to 30	21,41,8	0.378 to .8	1		58 to 60	50 10 05
4 Catastrophia	2010	Type 5 Selection and Botto a management for the management of the selection of the selection and selection SOCIETY and selection selection selections and selection SOCIETY and selection	of Ever when he immedy see with an observed But Repow or Ever This is old.	Company e 13	40	10101		,	100	8.
Compact from	di la 240 Heart	Appropriate of the instance of comment for the hyper day Combines Carb to exceptions active to Whether and Conference Carb tuning loops and Whether and Conference Carb tuning loops to the comment of the conference of the management of the conference of the conference management of the conference of the conference make the experience preparation and conveyed to.	The Breat a convolution from grant at the County of the County of the County of the Indicate of Indica	Pass NAMA CARABITURES Contractor Chess + + 20	b.	3	1		8	:

Energy Event Index Table from Telvent Go to the CQ&EM Community Site Electric Emergency Management folder for a full size document.

#### **APPENDIX B**

#### IMMEDIATE NOTIFICATION BY TELEPHONE

Copied below are the state regulations concerning the immediate notice by telephone following an event or incident.

Refer to the most current NHPUC Emergency/Accident Notification Protocol Roster for additional instructions.

Emergency Dispatch shall give the telephonic notice in accordance with its written procedures.

## Puc 306.06 Notification of Accidents and Property Damage.

- (a) A utility shall notify the commission in the event of accidents and significant events in accordance with subparts (c) (f), except during wide scale emergencies as required by this rule.
- (b) The commission shall provide a protocol roster to the utilities updated as necessary which:
  - (1) Lists commission representatives with their after work hours telephone contact numbers, email addresses and text contact information; and
  - (2) Lists the general commission telephone number.
- (c) A utility shall notify the commission by telephone, automated telephone notification or electronic means as soon as possible, but no later than 2 hours after becoming aware of an outage event that interrupts service to more than 2,000 customers for more than 5 minutes.
  - (1) The notification shall include:
    - a. The name of the utility;
    - b. The name of the person initiating the notification and a telephone number for call back;
    - c. A brief description of the event location;
    - d. Estimated number of customers affected; and
    - e. Estimated duration of outage or service restoration time; and
  - (2) Notification shall be to all commission representatives on the protocol roster, described in (b) above through automated telephone notification, email or text.
- (d) A utility shall notify the commission by telephone as soon as possible, but no later than 2 hours after becoming aware of an accident or event that:
  - (1) Results in serious injury or fatality;
  - (2) Involves a breach of security or threat against the utility's facilities addressed in section 306.10;
  - (3) Involves aircraft, trains or commercial boats;
  - (4) Results in closure of a state highway; or
  - (5) Is not covered in this section but has been or is anticipated to be reported publicly via major commercial news outlets.
- (e) When an accident or event occurs as described in (d) above, the utility shall notify the commission as follows:
  - (1) Attempt to contact the appropriate commission representative listed on the protocol roster, described in (b) above, either at the commission telephone number during regular commission hours or at the after-hours number outside of regular commission hours;
  - (2) Proceed sequentially through the roster attempting to contact a commission representative;
  - (3) If a utility is unable to reach a commission representative after (2) above, the utility shall notify the commission as follows:
    - a. Call the commission general telephone listing, provided in the protocol roster, and leave a voice mail message:
      - 1. Identifying the utility and the name and return telephone number of the

## individual attempting to report; and

- 2. Stating that an accident or event requiring notification has occurred and will be reported when the commission next opens; and
- b. As soon as possible during regular commission hours, contact the appropriate commission representative listed on the protocol roster, described in (b) above, and proceed sequentially through the roster; and
- (4) When the utility is first able to speak to a commission representative listed on the protocol roster as required by this section, the utility shall notify the representative of the following:
  - a. The name of the utility;
  - b. The name of the person making the report and the telephone number at which they can be called back;
  - c. A brief description of the accident or event and location;
  - d. A description of any known fatalities, personal injuries and damage;
  - e. Any other known information relevant to the cause of the accident or event and the extent of the damage; and
  - f. The time at which:
    - 1. The accident or event occurred; and
    - 2. The utility was first notified or the accident or event.

#### **APPENDIX C**

#### **REQUIRED WRITTEN REPORTS**

Copied below are the state regulations concerning the required written reports following an event or an emergency. Electric Operations, Engineering, Legal and CQ&EM should assist in the preparation of the written reports. Regulatory Compliance should coordinate the filing of these reports as well as the Event Driven Report. Also listed are the required internal reports.

#### Puc 306.06 Notification of Accidents and Property Damage.

- (f) Each utility shall report in writing any accident or event requiring notification pursuant to (d) above, by completing and submitting to the commission:
  - (1) Form E-5E, within 10 business days of notification of the accident or event; and
  - (2) If requested by the commission, a more detailed written report, referencing the original E-5E report number, containing any additional supportive documentation not provided in the original E-5E report, within 60 days of notification of the accident or event.
- (g) If a utility is requested to file a report pursuant to Puc 306.02(f)(2) and the accident or event involves a utility's pole or anchors located within the public way, the utility shall include in its report whether the poles or anchors were licensed and whether the poles or anchors were properly located according to that license.

#### Puc 306.09 Emergency Response Standards and Electrical Outage Restoration.

- On an annual basis, each utility shall file with the commission one original and one electronic copy of an emergency response plan (ERP).
- (b) ERPs shall incorporate the incident command system and follow the framework established in the National Incident Management System.
- (c) Utilities shall review and update plans at least once every calendar year.
- (d) Each ERP shall include a clear description of the responsibilities and policies of senior management during an emergency.
- (e) Each ERP shall provide that one full readiness exercise and one table top exercise be conducted annually. The utilities shall invite applicable state agencies and commission staff to participate in such exercises.
- (f) At least annually, the utility shall request to meet with municipal emergency response personnel to assure the accuracy of emergency response contact information is shared between the two parties, and to validate or revise the municipalities' critical infrastructure listing.
- (g) Each ERP shall incorporate projected event levels consistent with Table 306-1.

	Table 306-1									
Utility	ERP Event Level	% Customers Out	Outage Duration (Hrs.)							
	5	≤2	<12							
	4	>2≤5	0-24							
	3	>5 ≤10	24-48							
	2	>10≤20	48-144							
	1	>20	48-240							

## Puc 307.08 Reporting During Wide Scale Emergencies

- (a) Distribution crew reports shall be submitted electronically 4 times per day at 6 am, 10 am, 2 pm and 8 pm using Form E-33 pursuant to Puc 308.15.
- (b) Transmission crew reports shall be submitted electronically 4 times per day at 6 am, 10 am, 2 pm and 8 pm using Form E-34 pursuant to Puc 308.16.
- (c) In the event that commission staff anticipates the occurrence of a wide-scale emergency, staff shall notify the utilities and the utilities shall file crew reports prior to the onset of the wide-scale emergency. Event names shall be determined by the commission and made known to each of the utilities required to report.

- (d) Crew reporting shall consist of only those crews which are physically located within the state boundaries regardless of what their work status is such as sleeping, resting, eating, restoration of circuits and shall reflect the crews which are available for restoration at the time of the report.
- (e) Crew reporting shall be completed for front line, field assessment and public safety functions and as described in Forms E-33 and E-34.
- (f) Electric utility outage reports shall be submitted to the commission using applicable Forms E-36a, E-36b, and E-36c any time outage information is not publicly available on utility websites during wide scale emergencies pursuant to Puc 308.17.
- (g) Electric utility outage reports as described (f) above shall be submitted at the same times as required in (a) and (b) above or upon request of commission.

#### NHPUC After Action Review (Sec. 5.2) - December 2008 Ice Storm

Each affected utility shall file self-assessments following any State-declared emergency event that implicates utility services.

[Note: See Sec. 5.2 on page 65 of the report.]

CFID: 3695

## **Annual Storm Fund Report**

Settlement Agreement, DG 06-107, Order 24,777.

CFID: 1748

#### **Liberty Utilities After Action Review**

Liberty Utilities may, on its own, conduct an internal review of its preparation and response to an electric emergency event. Typically, the Incident Commander would request the review and coordinate the review with Emergency Management.

Topics to discuss in the After Action Meeting include:

- a chronology of events
- a review of all applicable operating procedures and plans
- a review of what worked well
- a review of what needs improvement
- an action plan for correcting deficiencies and making improvements

Other items to consider are contained in the document copied below entitled:

Attachment 4 – Final Event Reporting Requirements (Table B)

The source of this document is a National Grid Emergency Plan.

## **TYPICAL NHPUC DATA REQUEST**

- 1) Peak # of Customers Affected (simultaneously or coincidently)
- 2) Peak % of Customers Affected (simultaneously or coincidently)
- 3) Date and Time of Peak # of Customers Affected
- 4) Time of First Outage
- 5) Peak # of Restoration Crews on system over time (excluding Tree Crews and Damage Assessors)
- 6) Wire Reattached / Replaced (ft.)
- 7) # of Transformers Replaced
- 8) # of Poles Set
- 9) # of Cross-arms Replaced
- 10) Total Preliminary Estimated Cost
- 11) Outage data by town, hour by hour, throughout the period.
- 12) Timeline of outages along with crew reports.

#### Storm Planning Report

Prepared by Emergency Dispatch.

## **Storm Summary Report**

Prepared by Emergency Dispatch.

		(In compliance with Puc 308.14)				
EVENT NAME		,				
DATE REPORT SUBMITTED:			TIME - DATA	EXTRACTED:		
Submitted by:						
Company:						
uantity of Field Personnel				Prior to Event <sup>A</sup>	During Event	Incremental
		FRONT LINE				
				0	0	
	Line			0	0	
Distribution	Line		Crews restoring Distribution Circuits   0   0   0			
69 KV and Less includes	Ideld Personnel  FRONT LINE  Company Line Crews restoring Distribution Circuits  Affiliate Co Line Crews restoring Distribution Circuits  Contractor Line Crews restoring Distribution Circuits  Affiliate Co Line Crews restoring Distribution Circuits  Contractor Line Crews restoring Distribution Circuits  Foreign Utility Line Crews restoring Distribution Circuits  Foreign Utility Line Crews restoring Distribution Circuits  Company Line Crews restoring Service  Company Line Crews restoring Service  Company Line Crews restoring Service  Contractors restoring Service  Contractors restoring Service  Contractors restoring Service  Tree  Pole Setting/Digging Operations includes Co, Foreign Utility, Contractor  Contractor Tree Clearing - Working on Distribution Circuits  Freign Utility Tree Clearing - Working on Distribution Circuits  Foreign Utility Tree Clearing - Working on Distribution Circuits  Foreign Utility Tree Clearing - Working on Distribution Circuits  Freign Utility Tree Clearing - Working on Distribution Circuits  Foreign Utility Tree Clearing - Working on Distribution Circuits  Foreign Utility Tree Clearing - Working on Distribution Circuits  Foreign Utility Tree Clearing - Working on Distribution Circuits  Foreign Utility Tree Clearing - Working on Distribution Circuits  Foreign Utility Tree Clearing - Working on Distribution Circuits  Foreign Utility Tree Clearing - Working on Distribution Circuits  Foreign Utility Tree Clearing - Working on Distribution Circuits  Subtrotal.   Public SAFETY  Sown Appraiser Field Guides  Line  Field Guides  Line  Foreign Utility Tree Clearing - Working on Distribution Circuits  Subtrotal.   O  O  O  O  O  O  O  FIELD ASSESSMENT  O  O  O  O  O  O  O  O  O  O  O  O  O					
1 Subtransmission 46kv,	Convice			0	0	
34.5kv,22kv, 13kv, 7.5 kv, 4kv, 2kv	Service	Contractors restoring Service includes Electricans		0	0	
	_	Pole Setting/Digging Operations includes Co. Foreign Uitlity, Contractor		0	0	
	1 010			0		
	Tree					
		Totalgriduity Tree clearing Trending on Biotribution Chedito	SUBTOTAL		0	
*		FIELD ASSESSMENT				
2 Distribution see above	l ine <sup>C</sup>			0	0	
	Line	Company Pantago / 60000mont Croomer	CURTOTAL	0	0	
		PUBLIC SAFETY	SUBTUTAL	U	U	
Wires Down Appraiser	1			0	0	
	Line	Bird Dogs, Location Guides			_	
Other Support	Wires Down Appraiser Field Guides Line				0	
			SUBTOTAL	0	0	
					Event During Event  0	
			GRAND TOTAL	0	0	
A 1 1 1 P						
		will include the "prior to event" crews and additional crews that have	arrived "Doot o	ın ıne ground". N	umpers snou	iu be all
inclusive and should not refl	ect rest	time or crews that have yet to arrive.				
D Daga wat in alcode line and or		re doing both, includes those who are exclusively doing pole setting,	includes contr	actor, in-house c	rews, mutual	aid crews,
and does not include Telecor	ncrews					

#### NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION **ELECTRIC UTILITY OUTAGE REPORT** (In compliance with Puc 308.16) **EVENT** DATE: TIME - DATA EXTRACT: **GRANITE STATE ELECTRIC CO. d/b/a LIBERTY** Submitted by: Comment/ Liberty Liberty Total Customers Liberty % Out of Additional **Town Name** Customers without Power Information Power Acworth 0% 0% Alstead Bath 0% Canaan 0% Charlestown 0% Cornish 0% 0% Derry 0% Enfield Grafton 0% 0% Hanover Langdon 0% Lebanon 0% Marlow 0% Monroe 0% 0% Orange Pelham 0% Plainfield 0% 0% Salem Surry 0% Walpole 0%

0%

42

Windham

# Attachment 4 - Final Event Reporting Requirements (Table B)

Each Company shall include the information listed below in its Final Event Report.

1	• Wes	other				
	200	Actual weather				
	(a)	Maximum winds experienced				
		Duration of incident				
	•	Duration of emergency/storm restoration				
2	• Tran	nsmission Lines				
	(a)	List of transmission lines that became inoperative				
	**	Repairs made				
1		Estimate for repairs				
		Switching necessary to re-route power with adequate sectionalizing points				
3	• Sub	stations				
	\$0.	List of substations which incurred damage				
Į		List of equipment damaged				
	3.83	Estimate of repairs				
	( • ) i	Were stations properly alarmed				
4	• Dist	ribution Feeders				
		List of feeders affected				
00	3.8	List of feeders locked out				
	( <b>•</b> )[	Was backup to feeders sufficient				
5	Trouble Order System					
		Total Number of Customer Outages				
	3.8	Number of trouble orders				
	200	Did the system function as it was designed				
	•	Was there sufficient manpower available to operate the system				
	- 90	If de-centralization occurred did the system function as it was designed				
6	• Win	e Down Operations				
	7.00	Total number of Priority wire down calls				
		Number of wire down trouble calls				
	• 4	Did the system function as it was designed				
	•	If de-centralization occurred did the system function as it was designed				
7	• Pole	Damage				
		Number of broken pole trouble calls				
	- Sec.	Number of broken poles replaced by location size and age of the old pole				
8	• Wir	e Damage				
	(*)	Number of feet, type, and size of primary and secondary conductors replaced				
		Number of feet, type, and size of follow-up reconductoring to be done				

9	• Tra	nsformers damaged					
3	•	Listing by size, type and age of damaged transformer					
- 8	•	Availability of replacements					
10	• Cre	w Supplements					
	8 <b>.●</b> //.	Total number of Company crews and from which locations					
8	(*)	Number and type of crews from outside the Company					
		Availability and use of wire down appraisers					
	•	Availability and use of damage appraisers					
11	• Foo	d and Lodging					
- 63		Listing of lodging and number of rooms and meals					
	•	Was food available and adequate					
		Was there provisions for noon meals at the job sites					
12	• Equ	ipment					
5		Number and type of vehicles used					
200		Type and number of equipment breakdowns					
ĵ		Type of equipment rented					
	•	How were repairs handled for company and foreign vehicles					
13	Helicopter						
13	•	Were helicopters available					
		How were the helicopters used					
14	• Med	lia					
35		Was the Media kept updated and informed					
15	• Publ	ic Officials					
200 E	-	Was contact and cooperation maintained with municipal and state officials					
16	• Stoo	k/Materials					
33		Was material adequate and readily available to make repairs					
8		Were stock rooms properly equipped and staffed					
	•	Were provisions made for stock delivery to crews in the field					
17	• Veg	etation Management					
55		Were crews readily available and properly equipped					
8		Numbers crews used by type, company and community					
	•	Were the vegetation trouble calls handled by highest priority					
18	• Con	amunication					
2	868	Was communication follow smooth, detailed, accurate and timely					
20	300	Were there adequate, communication methods: radios, frequencies and cell phones					
	- 150Y	Was the communication with external resources adequate, timely, and detailed					

Source: National Grid Emergency Plan

## **STORM PLANNING REPORT**

	]	DATE:	Click here to	enter	a date.		
	<u>Lebanon</u>		<u>Salem</u>	<u>.</u>	<u>Charlestown</u>		Comments
Weather Forecast							
Anticipated EERP Event Level	Choose an item.	Choo	se an item.	Ch	noose an item.		
Resources						Totals	
Internal Crews							
Contractor							
Crews Total Line							
Crews							
Tree Crews							
Wires Down							
Other Support							
EOC/Storm Room Status	Open/not open / date and time. Personnel standing by etc						
Municipal Room Status	Open/not open / date and time. Personnel standing by etc						
Customer Outage Count						Total	
Estimated Date/Time for Total Restoration	Click here to enter a date. Choose an item.		ere to enter a date. se an item.		there to enter a date.		
Planned Storm Conference Calls							
Notifications with Regulators. NHPUC/NH OEM							
EII Event	December (		CD E	lal.	OD 00-11-1-1-1		D)/M lab
Index & Storm	Description		GP Expense	Job	GP Capital Job	G	P VM Job
Accounting							

## **STORM SUMMARY REPORT**

	]	DATE:	Click here to	ente	er a date.		
	<u>Lebanon</u>	9	<u>Salem</u>		<u>Charlestown</u>		Comments
Weather Accuracy							
Actual EERP Event Level	Level 2	l	∟evel 2		Level 2		
Resources						Totals	
Internal Crews							
Contractor Crews							
Total Line Crews							
Tree Crews							
Wires Down							
Other Support							
EOC/Storm Room Status	Open/not open / date and time. Personnel standing by etc						
Municipal Room Status	Open/not open / date and time. Personnel standing by etc						
Customer Outage Count at Peak						Total	
Date/Time of Total Restoration							
Storm Conference Calls							
Notifications with Regulators. NHPUC/NH OEM							
EII Event Index & Storm Accounting	Description		GP Expense	Job	GP Capital Job	GF	P VM Job
Storm Expenses Recoverable	YES □ NO	) 🗆					

#### **APPENDIX D**

#### LIAISON

## Puc 306.09 Emergency Response Standards and Electrical Outage Restoration.

(h) At least annually, the utility shall request to meet with municipal emergency response personnel to assure the accuracy of emergency response contact information is shared between the two parties, and to validate or revise the municipalities' critical infrastructure listing.

Note: See CQ&EM for information on the Liberty Utilities meetings held in the years 2013, 2014 & 2015.

Listed Below are examples of information that may be considered for inclusion in communications with Fire, Police and Municipal Officials.

- Company Contact Information
- Service Restoration Priority
- Life Support Customers
- Pole Ownership
- Pole Attachments
- Company Municipal Room
- Electric System Distribution Maps
- Emergency Dispatch and Control Center
- Tree Trimming Program

Also, consider providing the following information (see attached):

- OSHA Quick Card on Electrical Safety
- OSHA Fact Sheet on Working Safely Around Downed Electrical Wires
- OSHA Fact Sheet on Working Safely With Electricity

#### **NEIGHBORING ELECTRIC UTILITIES**

Communications must be maintained with other utilities concerning line outages which affect their operations. Normally, such interfaces would be between the Dispatch & Control and its counterparts. Exchanges of information may then be made between the Director of Electric Operations, Engineering Services, Emergency Management, or their alternates, and the foreign utility. In some instances it will be advantageous to employ the other companies' crews to perform patrols and effect repairs. This will be done through the NAMAG process.

## **TELEPHONE UTILITIES**

Attempts should be made to obtain assistance from telephone companies (our Joint Owners) in placing new poles. These companies may assign representatives to coordinate their work with Liberty Utilities' operations. The representative gathers pertinent information and relays it to the representative's company. Coordination of joint work with telephone forces is handled through this representative. The representative may also assist in cases of failure of supervisory and voice telephone circuits leased by Liberty Utilities. A Liberty Utilities IT technician will also be on site during major storms to provide emergency assistance.

#### **PUBLIC WORKS**

A municipal Public Works Department may assign a representative to work with Liberty Utilities Operations in clearing streets. The Public Works representative's function is to coordinate the work of their department with Liberty Utilities' operations.

## **NHOEM**

For wide-scale events or when federal or state officials declare a state of emergency, the Liaison Officer will contact the New Hampshire Department of Homeland Security - Office of Emergency Management (OEM) office to report the emergency and will maintain contact with the agencies throughout the event. Liberty Utilities has agreed to provide a Liaison Officer to the NHOEM during the emergency as required.



## **Electrical Safety**

Electrical hazards can cause burns, shocks and electrocution (death).

- Assume that all overhead wires are energized at lethal voltages. Never assume that a wire is safe to touch even if it is down or appears to be insulated.
- Never touch a fallen overhead power line. Call the electric utility company to report fallen electrical lines.
- Stay at least 10 feet (3 meters) away from overhead wires during cleanup and other activities. If working at heights or handling long objects, survey the area before starting work for the presence of overhead wires.
- If an overhead wire falls across your vehicle while you are driving, stay inside the vehicle and continue to drive away from the line. If the engine stalls, do not leave your vehicle. Warn people not to touch the vehicle or the wire. Call or ask someone to call the local electric utility company and emergency services.
- Never operate electrical equipment while you are standing in water.
- Never repair electrical cords or equipment unless qualified and authorized.
- Have a qualified electrician inspect electrical equipment that has gotten wet before energizing it.
- If working in damp locations, inspect electric cords and equipment to ensure that they are in good condition and free of defects, and use a ground-fault circuit interrupter (GFCI).
- Always use caution when working near electricity.

## For more complete information:

Occupational
Safety and
Health
Administration

U.S. Department of Labor www.osha.gov (800) 321-OSHA

OSHA 3294 10N-05



# Working Safely Around Downed Electrical Wires

Electrical hazards exist in some form in nearly all occupations. However, those hazards multiply for workers involved in cleanup and recovery efforts following major disasters and weather emergencies. One particular life-threatening danger exists around downed and low-hanging electrical wires.

## Safety First

Above all else, always consider all equipment, lines and conductors to be energized. Be cautious and if you notice downed wires or damaged electrical equipment, contact appropriate utility personnel. Remember that circuits do not always turn off when a power line falls into a tree or onto the ground. Even if they are not sparking or humming, fallen power lines can kill you if you touch them or even the ground nearby.

## Energy

Downed wires can energize other objects, including fences, water pipes, bushes and trees, buildings, telephone/CATV/fiber optic cables and other electric utilities. Even manhole castings and reinforcement bars (re/bar) in pavement can become energized by downed wires. During storms, wind-blown objects such as canopies, aluminum roofs, siding, sheds, etc., can also be energized by downed wires.

## Backfeed

When electrical conductors are inadvertently energized by other energy sources, backfeed occurs. Some of those sources include:

- Circuit ties/switch points
- Lightning
- Generators
- Downstream events

Simply testing for energy sources is not sufficient since hazardous electrical events can happen without warning. Ensure that proper lockout/tagout procedures are always followed.

## Rules to live by

- Do NOT assume that a downed conductor is safe simply because it is on the ground or it is not sparking.
- Do NOT assume that all coated, weatherproof or insulated wire is just telephone, television or fiber-optic cable.
- Low-hanging wires still have voltage potential even if they are not touching the ground. So, "don't touch them."
   Everything is energized until tested to be de-energized.
- Never go near a downed or fallen electric power line. Always assume that it is energized. Touching it could be fatal.
- Electricity can spread outward through the ground in a circular shape from the point of contact. As you move away from the center, large differences in voltages can be created.
- Never drive over downed power lines. Assume that they are energized. And, even if they are not, downed lines can become entangled in your equipment or vehicle.

- If contact is made with an energized power line while you are in a vehicle, remain calm and do not get out unless the vehicle is on fire. If possible, call for help.
- If you must exit any equipment because of fire or other safety reasons, try to jump completely clear, making sure that you do not touch the equipment and the ground at the same time. Land with both feet together and shuffle away in small steps to minimize the path of electric current and avoid electrical shock. Be careful to maintain your balance.

This is one in a series of informational fact sheets highlighting OSHA programs, policies or standards. It does not impose any new compliance requirements. For a comprehensive list of compliance requirements of OSHA standards or regulations, refer to Title 29 of the Code of Federal Regulations. This information will be made available to sensory impaired individuals upon request. The voice phone is (202) 693-1999; teletypewriter (TTY) number: (877) 889-5627.

For more complete information:



U.S. Department of Labor <u>www.osha.gov</u> (800) 321-OSHA



# **Working Safely with Electricity**

Working with electricity can be dangerous. Engineers, linemen, electricians, and others work with electricity directly, including overhead lines, cable harnesses, and circuit assemblies. Office workers and salespeople work with electricity indirectly and may also be exposed to electrical hazards.

## Generators

One of the common tools utilized following the loss of power are portable generators. Most generators are gasoline powered and use internal combustion engines to produce electricity. Carbon monoxide is a colorless and odorless gas produced during the operation of gasoline powered generators. When inhaled, the gas reduces your ability to utilize oxygen. Symptoms of carbon monoxide poisoning include headache, nausea and tiredness that can lead to unconsciousness and ultimately prove fatal.

- DO NOT bring a generator indoors. Be sure it is located outdoors in a location where the exhaust gases cannot enter
  a home or building. Good ventilation is the key.
- Be sure that the main circuit breaker is OFF and locked out prior to starting any generator. This will prevent
  inadvertent energization of power lines from back feed electrical energy from generators and help protect utility line
  workers from possible electrocution.
- Turn off generators and let them cool prior to refueling.

## **Power Lines**

Overhead and buried power lines are especially hazardous because they carry extremely high voltage. Fatal electrocution is the main risk, but burns and falls are also hazards.

- Look for overhead power lines and buried power line indicators.
- Stay at least 10 feet away from overhead power lines and assume they are energized.
- De-energize and ground lines when working near them.
- Use non-conductive wood or fiberglass ladders when working near power lines.

## **Extension Cords**

Normal wear on cords can loosen or expose wires. Cords that are not 3-wire type, not designed for hard-usage, or that have been modified, increase your risk of contacting electrical current.

- Use only equipment that is approved to meet OSHA standards.
- Do not modify cords or use them incorrectly.
- Use factory-assembled cord sets and only extension cords that are 3-wire type.
- Use only cords, connection devices, and fittings that are equipped with strain relief.
- Remove cords from receptacles by pulling on the plugs, not the cords.

## Equipment

Due to the dynamic, rugged nature of construction work, normal use of electrical equipment causes wear and tear that results in insulation breaks, short-circuits, and exposed wires. If there is no ground-fault protection, it can cause a ground-fault that sends current through the worker's body.

- Use ground-fault circuit interrupters (GFCIs) on all 120-volt, single-phase, 15- and 20-ampere receptacles, or have an assured equipment grounding conductor program (AEGCP).
- Use double-insulated tools and equipment, distinctively marked.
- Visually inspect all electrical equipment before use. Remove from service any equipment with frayed cords, missing ground prongs, cracked tool casings, etc.

## **Electrical Incidents**

If the power supply to the electrical equipment is not grounded or the path has been broken, fault current may travel through a worker's body, causing electrical burns or death. Even when the power system is properly grounded, electrical equipment can instantly change from safe to hazardous because of extreme conditions and rough treatment.

- Visually inspect electrical equipment before use. Take any defective equipment out of service.
- Ground all power supply systems, electrical circuits, and electrical equipment.
- Frequently inspect electrical systems to insure that the path to ground is continuous.
- Do not remove ground prongs from cord- and plug-connected equipment or extension cords.
- Use double-insulated tools and ground all exposed metal parts of equipment.
- Avoid standing in wet areas when using portable electrical power tools.

This is one in a series of informational fact sheets highlighting OSHA programs, policies or standards. It does not impose any new compliance requirements. For a comprehensive list of compliance requirements of OSHA standards or regulations, refer to Title 29 of the Code of Federal Regulations. This information will be made available to sensory impaired individuals upon request. The voice phone is (202) 693-1999; teletypewriter (TTY) number: (877) 889-5627.

**Think Safety!** 

For more complete information:



U.S. Department of Labor <u>www.osha.gov</u> (800) 321-OSHA

## **APPENDIX E**

## **REFERENCES**

Applicable Liberty Utilities Electric Operations Documents							
LU Community Site	Title						
CQ&EM	Department Business Continuity Plans						
CQ&EM	Field Guide for Mutual Aid Crews						
CQ&EM	Weather Indices						
EHSS	Employee Safety Handbook						
Engineering	Overhead Construction Standards						
Engineering	Underground Construction Standards						
Engineering	Electric Operating Procedures						
Engineering	Electric Service Bulletins						
Engineering	Electric Maps & Records						
Engineering	Code Blue Emergency System Activation						

Applicable Liberty Utilities Logistics Documents						
LU Community Site	Title					
CQ&EM	Hotel & Restaurant List					
CQ&EM	Restaurant Storm Crew List					
CQ&EM	Hotel Storm Crew List					
CQ&EM	NAMAG Guidelines					
CQ&EM	NAMAG Directory					
CQ&EM	Local Utility Contacts					
CQ&EM	Graybar Emergency Assistance Contacts					
CQ&EM	Crew Log					
CQ&EM	Local Crew Sheet					

Applicable Liberty Utilities Logistics Documents (continued)							
LU Community Site Title							
CQ&EM	Crew Transfer Sheet						
CQ&EM	Personnel Tracking Form						
CQ&EM	Emergency Restoration Contractors						
CQ&EM	Engineering & Retiree Resources List						
CQ&EM	Leidos Emergency Response Team						

	Applicable Liberty Utilities Training Documents						
LU Community Site	Title						
CQ&EM	Incident Command System Position Checklists						
Learning & Development	Wire Down Hazard Assessor Field Guide Stand By Personnel Electric Hazards Safety						

#### Notes:

- 1. See Electric Dispatch and Control for applicable ISO New England Documents.
- 2. The CQ & EM site is continuously updated with new documents. Also, existing documents are frequently revised. The documents copied in this Plan are illustrative only. See the CQ & EM site for the most current version.

1					S ALL UTILITIES For WIDE: ty Okvision Rev 06/12/201				
-		Worst Outage	2nd Worst Outage	3rd Worst Outage	4th Worst Outage	5th Worst Outage	6th Worst Outage	1	
	EventName	December 11-24, 2008 ice Skorn	February 25-March 4, 2010 Windstorm	Oct 29-Nov 4, 2011 Nor earlier (snow)	How 20 - Dec 1 2014 Thunkgroving Eve Soowstorm	Oct 26 - 21 2013 Hamisane Sandy	Aug 28 - Sept 1 2011 Tropical Storm Imme		
	# of Customers.Affected	322.438	265,728	237.000	207,309	137,070	125,714	1	
	% of Customers Affected	96%	53%	47%	41%	27%	26%	1	
_	Duration of Restoration	312	144	159	114-	106	79		
Eversource	# of Restoration Crews(ex Tree-Omg Assn)	788	396	379	729	386	381		
	Wire Reattached/Replaced (ft)	554.400	168,960	89,760	97.903	116,160	63,360		
	# of Transformers Replaced	1,300	592	196	120	290	105	1	
	# of Poles Set	789	175	177	50	161	57	1	
	# of Cross-arms Replaced	1.255	Urknown	Unkrown	157	Unknown	Unknown	1	
	Total Cost	572 709 000	\$26,523,000	\$15,700,000	\$32,500,000	\$11,200,000	\$7,100,000	1	
	-								
	EventName	December 11-24, 2008 Ice Storm	February 25-March 4, 2010 Windstorn	February 37 - 25, 2001	April 15 : 73 / 2007	Hint 28 - Sen 1 2004 Thurwgaining Eve Snowstorn	Del 28 - 31 2012 Hierocane Sandy	Aug 26 - Sept 1 2011 Tropical Storm Irene	Dct 29-Hov 4, 2011 Hor'eader (show)
MHEC	# of Customers.Affected	40,230	45,000	40,000	35,000	29,300	22,000	19,436	18,687
	% of Customers Affected	61%	59%	.01%	49%	36%	28%	29%	24%
	Duration of Restoration (hm)	100	128	72	161	102	108	77	66
	# of Restoration Crews(ex Tree-Omg Asses)	59	63	Unknown	Unknown	93	80	53	29
	Wire Reattached/Replaced (ft)	6,959	40,000	Unknown	3163600	820	Unknown	Unknows	Unknown
	# of Transformers Replaced	82	80	Unknown	Unknown	- 13	Unknows	Unknown	Unknown
	# of Poles Set	70	70	Drisnown	75	17.	Unknown	Unknown	Unknown
	# of Crossarms Replaced	120	180	Unknown	13témoun	4	Unknown	Unknown	Unknown
	Total Cost	\$2,126,000	\$1,314,654	Linknown	Unknown	\$1,000,165	\$2,532,429	\$288,000	\$248,000
	Event Name	February 25-March 4. 2010 Windstorm	Oct 29-Nov 4, 2011 Nor'easter (snow)	December 11-24, 2008 See Storm	Thursdaystring (see Economics	Oct 26 - 3n 3842 Humicano Sandy	Aug 28 - Sept 1 2011 Tropical Storm france		
	# of Customers.Affected	61,602	51,262	39,996	34.57%	31,437	31,355	1	
	% of Customers Affected	84%	69%	66%	46%	42%	42%	1	
	Duration of Restoration (hrs)	96	88	288	88	61	36		
Unitil	# of Restoration Crews(ex Tree/Omg Assrs)	176	. 78	63	.98	63	144	1	
	Wire Reattached/Replaced (ft)	103,600	5,700	93.012	18,500	21.519	2.400		
	# of Transformers Replaced	66	8	71	14	23	13		
	# of Poles Set	137	9	.67	.9	18	0		
	# of Cross-arms Replaced	325	35	239	46	26	10	1	
	Total Cost	\$4,577,281.00	\$3,265,000.00	\$2,943,881,00	52 071 04E 00	\$2,659,587.00	\$2.554,000.00		
	Event Name	December 11.24, 2008 for Storm	Oct 29-Nov 4, 2011 Nor'easter (mow)	Aug 28 - Sept t 2011 Tropical Storm Irene	February 25-March 4, 2010 Windstorm	Oct 26 - 21 2912 Humicane Sandy	March 7 - 10 2011 fee! Rain storm	they 25 - Dec 1 2016 Theregaining five Sequestion	
	# of Customers.Affected	24,154	17,000	11,400	11,219	10,200	4,700	2,900	
	% of Customers Affected	63%	45%	28%	27%	20%	11%	7%	
	Duration of Restoration (hm)	168	108	48	88	55	67	38	
Liberty	# of Restoration Crews(ex Tree/Omg Assns)	78	25	32	79	42	87	13:	
	Wire Reattached/Replaced (ft)	12,980	Urknown	Unknown	Unknown	Unknown	Unknown	5.00G	
	# of Transformers Replaced	20	Unknown	Linknown	Unknown	Unknown	Linknown	6	
	# of Poles Set	48	Urknown	- Unknown	Unknown	Unknown	Lintnown	10	
	# of Cross-arms Replaced	250	Urknown	Linknown	Unknown	Unknown	Unknown	25	

7			NEW HAMPSH	IRE HISTORICAL OUTAGES	ALL UTILITIES For WIDE	SCALE STORMS	
=10			F	repared by NHPUC Safet	y Division Rev 06/12/201	5	
1000		Worst Outage	2nd Worst Outage	3rd Worst Outage	4th Worst Outage	5th Worst Outage	6th Worst Outage
	Event Name	December 11-24, 2008 Ice Storm	February 25-March 4, 2010 Windstorm	Oct 29-Nov 4, 2011 Nor'easter (snow)	Nov 26 - Dec 1 2014 Transgeving Eve Snow storm	Oct 26 - 31 2012 Humcane Sandy	Aug 28 - Sept 1 2011 Tropical Storm Irene
	Concurrent Peak Customers Affected	432,632	337,542	299,235	238,865	190,000	184,701
	% of Concurrent Customers Affected	63%	50%	43%	34%	27%	27%
	Duration of Restoration (hrs)	312	144	159	111	108	79
	Non Concurrent Peak Customers Affected*	434,828	383,649	323,949	274,142	200.707	187,905
State Wide	% of NonConcurrent Customers Affected	63%	57%	47%	39%	29%	27%
	# of Restoration Crews (ex Tree.Dmg Assers)*	988	714	511	933	571	610
	Wire Reattached/Replaced (ft)*	667,351	Incomplete Data	Incomplete Data	122,222	Incomplete Data	Incomplete Data
	# of Transformers Replaced*	1,482	Incomplete Data	Incomplete Data	151	Incomplete Data	Incomplete Data
	# of Poles Set*	968	Incomplete Data	Incomplete Data	95	Incomplete Date	Incomplete Data
	# of Cross-arms Replaced*	1,864	Incomplete Data	Incomplete Data	232	Incomplete Data	Incomplete Data
	Total Cost	\$78,983,946.00	\$34,337,774.00	\$20,702,292.00	\$36,221,213.00	\$17,893,793.00	\$10,942,796.00

Source: NHPUC After Action Report November 2014 Snowstorm dated September 29, 2015

Tables A-1 and A-2: An Overview of the Regulated Electric Utilities in New Hampshire.

Source: Appendix E – NHPUC After Action Report November 2014 Snowstorm dated September 29, 2015

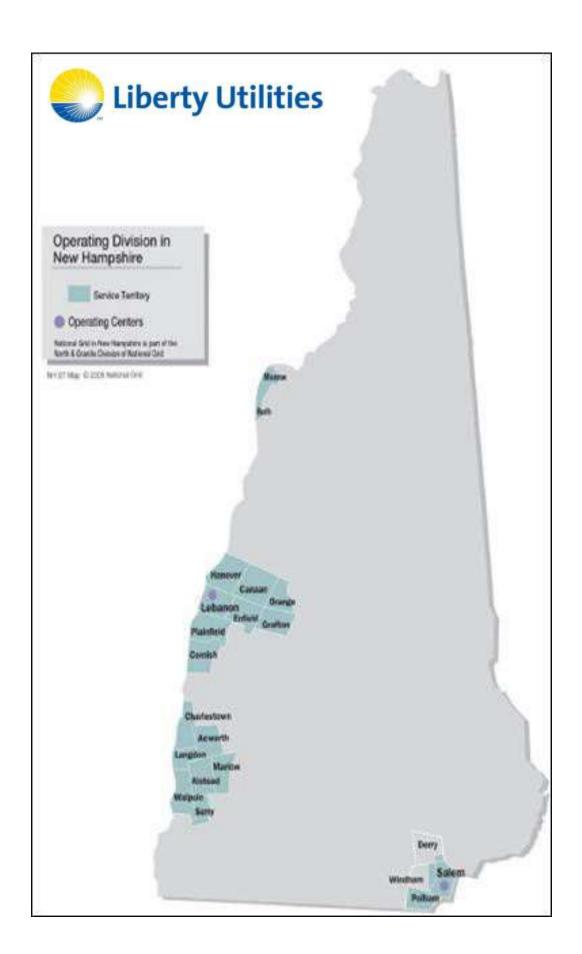
	Tab	le A-1	
Electric Provider	Number of Customers	Total Square Miles of Service Territory	Total Miles of Transmission and Distribution
New Hampshire Electric Cooperative (NHEC)	80,608	2,419	5,586
Unitil Energy Systems (UES)	76,003	408	1,568
Liberty Utilities (LU)	42,736	810	1,768
Public Service of New Hampshire (PSNH)	511,459	5,628	13,804
Total	710,806	9,265	22,726

		Table A-2			
Electric Company	Number of Towns Fully Served Fully Served		Number of Towns Partially Served	No. Customer Within Towns Partially Served	
New Hampshire Electric Cooperative	18	22,756	99	57,852	
Unitil Energy Systems	8	23,649	23	52,354	
Liberty Utilities	3	24,290	19	18,446	
Public Service of New Hampshire	95	330,267	117	181,192	
Total	124	400,962	258	309,844	

## **APPENDIX F**

## **CITIES AND TOWNS SERVED**

In addition to the map below, see the NHPUC web site for a listing of the electric, gas, water and sewer utility for each city / town.



#### **APPENDIX G**

#### **INCIDENT INVESTIGATION PROCEDURES**

The decision to formally investigate an electric related incident or event is determined by the Director of Electric Operations, Director of Engineering, or the Director of Dispatch & Control.

A combination of one or more of the following Event Levels (see **Appendix A**) should be used in the decision.

- Fire or Explosion
- Natural Disaster
- Unplanned Supply Interruption
- Other: Terrorism, Breach of Security, Newsworthy Event

Once the decision is made to proceed, an investigating team including all appropriate participants associated with the incident or event will be convened. The team may vary depending on the incident or event.

There may be a separate Incident Analysis Investigation initiated by the Safety Department following an injury to a company representative.

## A. General

The general objectives of the investigation are:

- Determine the origin of the fire, explosion, event, etc.;
- Identify the source (If any);
- Describe the sequence (if any);
- Determine the cause; and
- Establish the responsibility of the fire, explosion, event, etc.

For more information on Fire and Explosion Investigations refer to NFPA Chapter 21 Explosions.

Only essential personnel, those directed by Dispatch or their supervisor, should report to the scene of an incident or event. If you are not needed at the scene, report to a location away from the scene until such time that you are requested to report to the scene. Refrain from discussing the incident or event with anyone other than Liberty Utilities personnel. Avoid loud conversations or joking. Be aware your comments could be overheard or subject to misinterpretation by local residents, officials or reporters. If you are asked a question, explain that you cannot speak for the Company and direct the questioner to the appropriate Liberty Utilities representative (typically, the assigned Public Information Officer).

The sight of unnecessary Company employees at an incident or event can give the wrong impression and could mistakenly associate Liberty Utilities with the incident or event, incorrectly implying Company involvement or exaggerate the gravity of the incident or event.

Note: Under RSA 153:4-a, the State Fire Marshal, or his designee, shall have access to any and all incidents involving hazardous materials and shall coordinate the activities of state services during a hazardous materials incident. The State Fire Marshal, or his designee, shall assume control of a hazardous materials incident at the request of the local fire chief or fire official in charge, or if the State Fire Marshal or his designee believes that the welfare of the public is not being appropriately served.

## B. <u>Incident Investigation Procedures</u>

All incidents and events shall initially be investigated to determine the cause, the actions taken by Company personnel and the changes required to Company procedures or standards to prevent a reoccurrence. The exact extent of any investigation cannot be listed here, but the following should be a guide to the actions taken:

- 1. The person in charge of any investigation should make himself known to the police and fire officials in charge at the scene. Communication with these officials should be maintained to inform them of Company plans and to obtain help if necessary.
- 2. Record date and hour of the incident or event if known; if not, show best estimate and note that it is estimated.
- Record time of arrival at scene.
- 4. Record names of all employees and Company representatives who were at the scene.
- 5. Keep detailed records as to the manner of the incident or event. If any tests or photographs are taken, record test readings and photographs taken and names of such individuals taking such photographs and tests.
- 6. Record time at which electricity was shut off and the manner in which it was shut off.
- 7. If excavation is required to discover the failure, indicate depth of facilities below the surface of earth and nature of earth above and below depth.
- 8. Have more than one individual note the nature of the failure and other appropriate indications at the location, such as extent of failure, whether or not the failure was old or new, drying out of earth in the vicinity of failure and test.
- 9. Photograph the area of failure and label as to the date, time and place.
- 10. Take photographs of property damage in area and a complete written inventory of all damages property and contents.
- 11. Check for signs of tampering or foreign connections on all electric lines and equipment.
- 12. No materials, facilities or equipment owned by the Company shall be removed without authorization from an appropriate Liberty Utilities representative (typically, the assigned On-Scene Commander). Any request for permission to remove the materials, facilities or equipment should indicate the purpose of the removal.

If any materials, facilities or equipment is removed, it should be clearly labeled and identified. Such items removed from the scene shall be returned to the Company. Contents of items removed should not be released to anyone except by the consent of the appropriate Liberty Utilities representative (typically, the assigned Public Information Officer).

13. Employees shall not give any comment or opinion to anyone at the scene or thereafter unless requested to do so by the appropriate Liberty Utilities representative (typically, the assigned Public Information Officer).

The above outline is only a preliminary plan to follow. In certain situations, the investigation may be carried out by others employed by the Company.

## C. Claims Investigations

The Company has hired Crawford to oversee the investigation of any incident or event that may result in claims against the Company (see below). In the event of such incident or event, Crawford will dispatch to the scene forensic investigators on behalf of the Company, whose purpose is to collect potential evidence to defend or resolve any claims that may arise out of the incident or event. Company personnel should cooperate fully with any Crawford claims investigator. Prior to speaking to such investigator, Company personnel should verify with the Incident Commander the identity of the claims investigator representing Crawford.

## D. Preservation of Evidence

Whenever wires, pipes, fittings, meters, or other materials are removed and held for evidence in possible future investigation in which the Company may be involved, it is important that all fractured metal surfaces be preserved in their original condition at the time of the incident or event. Tampering with the fractured area shall not be permitted. If the specimens are needed to determine the basic metallurgical structure of the material, they may be removed from the area adjacent to but not including the fractured surface. All the materials described above are to be stored in containers plainly labeled, and placed in the storeroom for safe keeping.

Direct any questions you have to the On-Scene or Incident Commanders.



**Date:** May 18, 2015

Subject: Incident and Event Investigations: Gas & Electric

To: Sue Fenton, Norm Gallagher, Rich MacDonald, Rob Blank, Kurt Demmer, Chris Brouillard

From: Leo Cody

Liberty Utilities is reviewing its Gas and Electric Claims process. This review covers both:

- 1. Small claims reported by our customers and by the public, and
- 2. Investigations initiated after an incident or event.

This memo covers only #2 above and replaces the Interim NH Protocol dated May 8, 2015.

Effective immediately, Gas and Electric Emergency Dispatch will follow the following procedure whenever there is a need for a forensic investigator at the scene.

**Step 1.** If there is a Gas Level 1 - Catastrophic Impact Event, or

a Gas Level 2 - Major Impact Event, or

an Electric Type 1 - Catastrophic Event, or

an Electric Type 2 - Major Impact Event, and

there is a fatality, serious injury, or significant property / facilities damage,

then, after first confirming with Rich MacDonald (Gas), or Rob Blank (Electric), or

Norm Gallagher (Production), contact the following individuals:

Name	Company	Cell Phone	Work Phone
Richard Gunn	Senior Casualty Adjuster	404-431-6407	404-497-6829
	Crawford		
	Global Technical services		
James Devall	Vice President	214-458-9227	214-459-6362
	Crawford & Company		

## **Step 2.** Tell them:

Date of the Incident or Event.

Time of the Incident or Event.

Location of the Incident or Event.

Describe the Incident or Event.

To contact Rich MacDonald at 603-235-8766 (if Gas related).

To contact Rob Blank at 603-327-7910 (if Electric related).

To contact Norm Gallagher at 603-231-6349 (if Production related).

**Note:** Consider notifying Crawford if there is a Gas Level 3 - Serious Impact Event or an Electric Type 3 – Serious Impact Event that is significant in the opinion of Rich MacDonald, Rob Blank, or Norm Gallagher.

Please contact me if you have any questions.

cc: Sarah Knowlton, John Shore, Kelly Goodwin

## **APPENDIX H**

## **CQ&EM FORMS**

These documents are as of December 14, 2015 and are illustrative samples. See the CQ&EM site for the most current versions and other related documents. Assignments may have changed due to personnel changes.

- Meeting Agenda Prior To Event
- Meeting Agenda During Event
- Meeting Agenda Post Event
- Emergency Planning Matrix 3 Day Checklist
- Organization Charts
- The Planning Process



## Meeting Agenda - Prior to Event

Event Name: Meeting Number: Meeting Date: Meeting Time:

**Meeting Host:** 

President	David Swain			
Vice-President	TBD			
Assignments - Incident Command System	<u>Primary</u>	Attend	Secondary	Attend
Incident Commander	Kurt Demmer		Rob Blank	
2a.Regional Commander-Salem	Rob Blank		Kurt Demmer	
2b.Regional Commander-Lebanon	Rob Blank		Kurt Demmer	
3. Planning/Resource Officer	Chris Brouillard		Steve Hall	
4. Logistics Officer	Rich Foley		Heather Tebbetts	
5. Financial Officer	Kevin McCarthy		Paul Kinch	
6. Human Resource Officer	Mark Smith		John Sanabria	
7. Liaison Officer	Michael Licata		Steve Mullen	
8. Information Officer	Susan Fenton		John Shore	
9. System Control Center	Norm Gallagher		Pete LePoer	
10 Customer Call Center	Kelly Goodwin		Christine Downing	
11.Data Collection Officer	Russ McIntyre		Maureen Karpf	
12.Gas Operations	Rich MacDonald		Gwyn Cassetty	
13.IT Coordinator	Don Romano		David Chung	
14.Safety & Health Officer	Rich Paradie		Ken Salter	
15.Environment Officer	Mary Casey		Rich Paradie	
16.Security/Facilities Officer	Steve Szczechura		Doug Dorn	
•				
Assignments - System Wide				
18.Municipal Room Coordinator	Jill Fitzpatrick		Mark Camasso	
19.Wires Down Office Support	Tracey Mini		Ted Cluff	
19 (a) Service Inspector Coordinator	Bob Reals		Emily Paquette	
20.Wires Down Field Assessor	Electric Operations			
21.Damage Assessment	Ian Crabtree		David Lepie	
22.Tree Crew/Forestry Coordinator	Jeff Carney		Consultant	
23.OnBoarding Contractors	Rich Paradie		Ken Salter	
24.Field Guide Mutual Aid Contractors	Bob Johnson		Ken Salter	
25.Service Restoration/Outage Coordinator	Joel Rivera		Anthony Strabone	
26.Wires Down Standby Personnel	Bob Mostone		Alain Tinker	
Assignments - Salem				
17.Electric Operations Supervisor	Pat O'Neill		Mario Barone	
Accionate Laborate				
Assignments - Lebanon	Trouis Circus		Maria Daras -	
17.Electric Operations Supervisor	Travis Singer		Mario Barone	
Assignments - Oakville				
Operations, Engineering, IT				
Operations, Engineening, H		1		

Form Revised on December 14, 2015.

See the CQ&EM Folder on the Liberty East Community site for the list of Backup/Second Shift Assignments.

## **SAFETY MESSAGE**

## **WEATHER**

## A. Current Weather Report

- A. Source:
- B. Time:
- C. Description:

## B. <u>Current Weather Scenarios</u>

- A. Best Case:
- B. Worse Case:
- C. Most Likely Case:

## C. Ell EVENT Index

- A. Event Level:
- B. Confidence Level:

## **Energy Event Index Definition**

No Leaves (Oct 1 - Mar 31) (winter override)

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

	Confidence Level			
Low	< 30% chance			
Medium	>= 30% to < 60% chance			
High	>= 60% chance			

**Action Items:** 

# SITUATION ASSESMENT

1.		s the Director of Electric Operations declared that the Company is in Storm Preparation mode?
	A.	Date:
	B.	Time:
2.		pected Event Type As Of Meeting Time
	`	ote: See Attachment 1)
	A.	Best Case: Choose an item.
	_	Customers Impacted -
	В.	Worse Case: Choose an item.
	_	Customers Impacted -
	C.	Most Likely Case: Choose an item.
		Customers Impacted –
3.	<u>Exp</u>	ected Event Impact As Of Meeting Time
	A.	Impact Date: Click here to enter a date.
	B.	Impact Time:
	C.	Impact Duration:
	D.	Impact Location
	E.	Impact Description:
1	\ <b>\</b> /;;;	the Event occur during a Holiday or over a Weekend?
٠.	V V 1111	the Event occur during a nonday or over a weekend:
5.		es the NHPUC Safety Division anticipate a Wide-Scale Emergency?
	(If y	es, file NHPUC Form E-33 prior to the onset of the Event.)
	Ùtili	te: Wide-Scale Emergency is defined as a sustained interruption of electric service to 10% or more of Liberty ties customers and restoration of electric service to any of these customers takes more than 24 hours; or a ternment declared official state of emergency involving an interruption of electric service.)
Ac	tion	Items:

## **RESOURCE REQUIREMENTS**

**Notes:** A crew generally consists of two people with a truck and equipment.

Line Crews: Responsible for switching and repair of equipment and hardware and the final energizing of the line.

Digger Crews: Responsible for replacing utility poles.

Tree Crews: Responsible for removing and relocation of downed trees and limbs to eliminate safety hazards.

On Property Crews: Outside contractor crews currently working in state for Liberty Utilities at the time of the event.

Total

Foreign Crews / External Crews / Mutual Aid Crews: Outside company or contractor crews requested by LU.

1.	<b>Expected Company</b>	Resources Required to	Restore Electric	Service As C	Of Meeting Time	<u> </u>

			Lebanon	Salem	Charlestov
	LU Line Crews				
	On Property Line Crews				
	Additional Contractor Lin	e Crews			
	LU Tree Crews				
	On Property Tree Crews				
	Additional Contractor Tre				
	On Property Digger Crews				
	Additional Contractor Dig	ger Crews			
Expe	Has the Company notified of Has the LIBERTY UTILITIE	S - ELECTRIC OPER esources Required to	RATIONS ON-CA	c Service As Of	Meeting Tim
		<u>Lebanon</u>	<u>Salem</u>	Charlestown	<u>Total</u>
	F 1 ! 0				
	Foreign Line Crews				
	Foreign Line Crews Foreign Tree Crews Foreign Digger Crews				
	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance		ice Call through N	JAMAG2	
Has L	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint	Mobilization Conferer			
Has L Has a	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint	Mobilization Conferer nt Mobilization Confer	ence Call through		
Has L Has a	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint	Mobilization Conferer nt Mobilization Confer	ence Call throughing?		
Has L Has a	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint is the Liberty Utilities status at	Mobilization Conferer nt Mobilization Confer t the time of the meeti	ence Call throughng? ecision?		
Has L Has a	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint is the Liberty Utilities status at Holding	Mobilization Conferer nt Mobilization Confer t the time of the meeti Who made the c	ence Call throughng? ecision? ecision?		
Has L Has a What	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint is the Liberty Utilities status at Holding Requesting Offering	Mobilization Conferer nt Mobilization Confer t the time of the meeti Who made the o Who made the o Who made the o	ence Call throughing? ecision? ecision? ecision? _		
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Has L Has a What	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint is the Liberty Utilities status at Holding Requesting Offering	Mobilization Conferer Int Mobilization Conferent It the time of the meeti Who made the o Who made the o Who made the o Who made the o	ence Call throughing? ecision? ecision? ecision? ecision?	n NAMAG?	
Has L Has a What Has (See	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint is the Liberty Utilities status at Holding Requesting Offering  Liberty Utilities requested assiste NAMAG exception to Rules of	Mobilization Conferent Mobilization Conferent Mobilization Conferent the time of the meeting Who made the conference who made the conference from neighbor of Engagement if a single-	ence Call throughing? ecision? ecision? ecision? ing utilities? gle impact for a s	hort duration.)	ne
Has L Has a What Has (See	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint is the Liberty Utilities status at Holding Requesting Offering  Liberty Utilities requested assiste NAMAG exception to Rules of	Mobilization Conferent Mobilization Conferent Mobilization Conferent the time of the meeting Who made the conference who made the conference from neighbor of Engagement if a single-	ence Call throughing? ecision? ecision? ecision? ing utilities? gle impact for a s	hort duration.)	ne
Has L Has a What Has (See	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint is the Liberty Utilities status at Holding Requesting Offering  Liberty Utilities requested assiste NAMAG exception to Rules of	Mobilization Conferent Mobilization Conferent Mobilization Conferent the time of the meeting Who made the conference who made the conference from neighbor of Engagement if a single-	ence Call throughing? ecision? ecision? ecision? ing utilities? gle impact for a s	hort duration.)	ne
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Has L Has a What Has (See	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint is the Liberty Utilities status at Holding Requesting Offering  Liberty Utilities requested assist NAMAG exception to Rules of Service: Contractor: Contact:	Mobilization Conferent Mobilization Conferent Mobilization Conferent the time of the meeting Who made the conference who made the conference from neighbor of Engagement if a single-	ence Call throughing? ecision? ecision? ecision? ing utilities? gle impact for a s	hort duration.)	ne
Has L Has a What Has (See	Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Liberty Utilities initiated a Joint another operator initiated a Joint is the Liberty Utilities status at Holding Requesting Offering  Liberty Utilities requested assist NAMAG exception to Rules of Service: Contractor: Contact: Service:	Mobilization Conferent Mobilization Conferent Mobilization Conferent the time of the meeting Who made the conference who made the conference from neighbor of Engagement if a single-	ence Call throughing? ecision? ecision? ecision? ing utilities? gle impact for a s	hort duration.)	ne

# PRE-STAGING of CREWS, PERSONNEL and MATERIALS Has the Company considered the need to pre-stage crews? Who made the decision? When?\_ Date Pre-Staging is expected? \_ Time? \_\_\_\_\_ **LU Contact** <u>Salem</u> **Charlestown** <u>Lebanon</u> Crews Location Onboarding Field Guides Stand-By Personnel Tools, Equipment, **Materials** Security Meals Lodging Municipal Room

**Action Items:** 

Damage Assessment

Regional EOC

# **COMMUNICATIONS – Action Items**

A. Company	Employees:				
B. Governor	State Government / N	H WebEOC:			
C. NHPUC S	afety Division:				
D. Cities / To Are t	wns: here any Storm Confere	ence Calls scheduled:			
E. Customers	s / Critical Care Custom	ers:			
F. Public:					
G. NAMAG 8	Other Industry Groups	:			
H. Other Pole	e Attachees:				
REPORT	S – Action Item	S			
A. Prepare in	iternal Storm Planning I	Report:			
B. File Puc F	orm E-33 prior to the or	nset of any anticipated W	/ide-Scale Emergency:		
C. Continue t	o prepare and file all ot	her required reports:			
ADMINIS	TRATION				
B. See CQ&I C. Pre-Stagir	EM folder on Liberty Uti ng Deferrable Event? _ ent Accounting:		ency Management Forms		
5	Description Storm Event Ell Level	GP Expense Job	GP Capital Job	GP VM Job	

## **INCIDENT COMMAND SYSTEM POSITIONS - Comments / Questions**

1. Incident Commander: 2. On-Scene Commander / Regional Commander: 3. Planning / Resource Officer: 4. Logistics Officer: 5. Financial Officer: 6. Human Resource Officer: 7. Liaison Officer: 8. Information Officer: 9. System Control Center: 10. Customer Call Center: 11. Data Collection Officer: 12. Gas Operations 13. IT Coordinator: 14. Safety & Health Officer: 15. Environment Officer: 16. Security/Facilities Officer: 17. Regulatory Compliance: 18: Others:

## **NEXT MEETING** Meetings will be held twice daily (10am & 4pm)

- A. Date:
- B. Time:
- C. Location:
- D. Liberty Storm Conference Call Number: 1-888-875-1833

Guest Passcode: **430980** Host Passcode: **4309805** 

#### **ATTACHMENT 1**

The following are guidelines to determine the severity of Emergencies and their Operating Conditions for the Company.

The guidelines are intended to be consistent with Table 306-1 in NH Puc 306.09:

## **Emergency Response Standards and Electrical Outage Restoration**

Type 5 Small Impact Event (Localized Response Condition / Normal Operations) System activity is normal with response coordinated with
local on-call personnel. Incident Command Structure not
activated.

(0 - 840 customers)

- Type 4 Moderate Impact Event (Heightened Alert) The severity within a Region(s) is (are) such that restoration activities are generally accomplished within a 24 hour period. This may require assistance from another Region or contractors. Incident Command Structure may be activated at the Region level.

  (840 2100 customers)
- Type 3 Serious Impact Event (Enhanced Support) The severity within a Region(s) is (are) such that restoration activities are generally accomplished with assistance from other Regions and contractors within 24 to 48 hour period. Incident Command structure activated at the Regional level.

(2100 - 4200 customers)

Type 2 Major Impact Event (Comprehensive Support) – The severity within the Region (s) is (are) such that restoration activities are generally accomplished with assistance from other Regions and contractors within a 48 to 144 hour period. This may require mutual assistance from other utilities. Incident Command Structure activated at the Regional level and may be activated at the System level.

(4200 - 8400 customers)

Type 1 Catastrophic Impact Event (Emergency Support) – The severity within a Region(s) is (are) such that restoration activities are accomplished with assistance from other Regions, contactors and require mutual assistance from other utilities. Restoration activities will generally require 48 to 240 hour period. The Incident Command Structure will be activated at the Regional and System levels.

(>8400 customer)

Puc 306.09 (g): Each ERP shall incorporate projected event levels consistent with Table 306-1.

	<b>Table 306-1</b>				
Utility	<b>ERP Event Level</b>	% Customers Out	Outage Duration (Hrs.)		
	5	≤2	<12		
	4	>2≤5	0-24		
	3	>5≤10	24-48		
	2	>10≤20	48-144		
	1	>20	48-240		



# **Meeting Agenda – During Event**

Event Name: Meeting Number: Meeting Date: Meeting Time:

**Meeting Host:** 

President	David Swain			
Vice-President	TBD			
Assignments – Incident Command System	Primary	Attend	Secondary	Attend
Incident Commander	Kurt Demmer	Attoria	Rob Blank	Attoria
2a.Regional Commander-Salem	Rob Blank		Kurt Demmer	
2b.Regional Commander-Lebanon	Rob Blank		Kurt Demmer	
Planning/Resource Officer	Chris Brouillard		Steve Hall	
Logistics Officer	Rich Foley		Heather Tebbetts	
Financial Officer	Kevin McCarthy		Paul Kinch	
6. Human Resource Officer	Mark Smith		John Sanabria	
7. Liaison Officer	Michael Licata		Steve Mullen	
8. Information Officer	Susan Fenton		John Shore	
System Control Center	Norm Gallagher		Pete LePoer	
10 Customer Call Center	Kelly Goodwin		Christine Downing	
11.Data Collection Officer	Russ McIntyre		Maureen Karpf	
12.Gas Operations	Rich MacDonald		Gwyn Cassetty	
13.IT Coordinator	Don Romano		David Chung	+
14.Safety & Health Officer	Rich Paradie		Ken Salter	+
15.Environment Officer			Rich Paradie	
	Mary Casey			
16.Security/Facilities Officer	Steve Szczechura		Doug Dorn	
Assissments Cystem Wide				
Assignments - System Wide	III Fitan atrial		Marily Correspond	
18.Municipal Room Coordinator	Jill Fitzpatrick		Mark Camasso	
<ul><li>19.Wires Down Office Support</li><li>19 (a) Service Inspector Coordinator</li></ul>	Tracey Mini Bob Reals		Ted Cluff	
20.Wires Down Field Assessor			Emily Paquette	
	Electric Operations		David Lania	
21.Damage Assessment	Ian Crabtree		David Lepie	
22.Tree Crew/Forestry Coordinator	Jeff Carney		Consultant	
23.OnBoarding Contractors	Rich Paradie		Ken Salter	
24.Field Guide Mutual Aid Contractors	Bob Johnson		Ken Salter	
25.Service Restoration/Outage Coordinator	Joel Rivera		Anthony Strabone	
26.Wires Down Standby Personnel	Bob Mostone		Alain Tinker	
Assignments - Salem				
17.Electric Operations Supervisor	Pat O'Neill		Mario Barone	
17. Electric Operations Supervisor	1 at O Neill		Wallo Balone	
Assignments - Lebanon				
17.Electric Operations Supervisor	Travis Singer		Mario Barone	
Assignments Oslaville				
Assignments - Oakville				
Operations, Engineering, IT				

Form Revised on December 14, 2015.

See the CQ&EM Folder on the Liberty East Community site for the list of Backup/Second Shift Assignments.

# **SAFETY QUESTIONS**

- 1. Is the Public Safe?
- 2. Are the Employees Safe and All Accounted For?
- 3. Are the Employees' Family Members Safe?

# **WEATHER**

#### A. Current Weather Report

- A. Source:
- B. Time:
- C. Description:

#### B. <u>Current Weather Scenarios</u>

- A. Best Case:
- B. Worse Case:
- C. Most Likely Case:

#### C. Ell EVENT Index

- A. Event Level:
- B. Confidence Level:

### **Energy Event Index Definition**

No Leaves (Oct 1 - Mar 31) (winter override)

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

Confidence Level			
Low < 30% chance			
Medium	>= 30% to < 60% chance		
High	>= 60% chance		

#### **Action Items:**

# SITUATION ASSESMENT

١.	Has the Incident Commander mobilized the Company resources?				
	Yes No No				
	A. Date:				
	B. Time:				
2.	Event Impact As Of Meeting Time				
	A. Impact Location				
	B. Impact Description:				
3.	Event Type As Of Meeting Time				
	A. Best Case: Choose an item.				
	Customers Impacted -				
	B. Worse Case: Choose an item.				
	Customers Impacted -				
	C. Most Likely Case: Choose an item.				
	Customers Impacted –				
1.	Has the Governor declared a State of Emergency?				
_	Hee the State anamed its Emergency Operations Contart				
).	Has the State opened its Emergency Operations Center?				
<b>3</b> .	Has the NHPUC Safety Division declared a Wide-Scale Emergency?				
7.	Are there any known road closures on the NH WebEOC?				
,	Damage Assessment Summary As Of Mosting Time				
Э.	Damage Assessment Summary As Of Meeting Time				

	<u>Lebanon</u>	<u>Salem</u>	Charlestown
Time of First Outage			
Peak Number of			
Customers Affected			
Peak Percent of			
Customers Affected			
Number of Circuits			
Locked Out			
Number of Feeders			
Affected			
Number of Substations			
Affected			
Number of Services To			
Be Replaced			
Footage of Wire To Be			
Reattached/Replaced			

# RESOURCE DEPLOYMENT

**Notes:** A crew generally consists of two people with a truck and equipment. Line Crews: Responsible for switching and repair of equipment and hardware and the final energizing of the line. Digger Crews: Responsible for replacing utility poles.

<u>Tree Crews:</u> Responsible for removing and relocation of downed trees and limbs to eliminate safety hazards. On Property Crews: Outside contractor crews currently working in state for Liberty Utilities at the time of the event. Foreign Crews / External Crews / Mutual Aid Crews: Outside company or contractor crews requested by LU.

Total

(LID	perty Utilities Blue Sky staffing le				
	1111120000000	<u>Le</u>	<u>banon</u>	Salem Cha	<u>arlestown</u>
	LU Line Crews				
	On Property Line Crews				
	Additional Contractor Line Co	rews			
	LU Tree Crews				
	On Property Tree Crews				
	Additional Contractor Tree Co	rews			
	On Property Digger Crews				
	Additional Digger Crews				
<u>Fore</u> i	Has the Company canceled vac Has the Company notified emp ign / Mutual Aid Resources In St	loyees to be on st	andby?	As Of Meeting Tim	<u>e</u>
		<u>Lebanon</u>	<u>Salem</u>	<u>Charlestown</u>	<u>Total</u>
	Foreign Line Crews				
	Foreign Tree Crews				
	Foreign Digger Crews				
<u>Addi</u>	tional Foreign / Mutual Aid Reso Foreign Line Crews	urces Needed to Lebanon	Restore Electri Salem	Charlestown	eeting Tin <u>Total</u>
<u>Addi</u>					
<u>Addi</u>	Foreign Line Crews				
North Has I Has a	Foreign Line Crews Foreign Tree Crews	Lebanon  Pup (NAMAG)  Dilization Conferer  Obilization Conferer  Obilization Conferer	salem  ace Call through ence Call through ence Call through elecision?	Charlestown  NAMAG?	
North Has I Has a What Has (See	Foreign Line Crews Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Ground Liberty Utilities initiated a Joint Mote another operator Initiated a Joint Mote another Ini	Lebanon  Pup (NAMAG)  Dilization Conference time of the meeting Who made the conference with the made the conference from neighboring aggement if a single-	salem  ace Call through ence Call through ence Call through ence Call through ecision?  lecision?  lecision?  ing utilities? gle impact for a	NAMAG? ph NAMAG?	Total
North Has I Has a What Has (See	Foreign Line Crews Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Ground Mote another operator initiated a Joint Mote another operator initiated a Joint Mote another Utilities status at the Holding Requesting Offering  Liberty Utilities requested assistance Ground Mote another operator initiated a Joint	Lebanon  Pup (NAMAG)  Dilization Conference time of the meeting Who made the conference with the made the conference from neighboring aggement if a single-	salem  ace Call through ence Call through ence Call through ence Call through ecision?  lecision?  lecision?  ing utilities? gle impact for a	NAMAG? ph NAMAG?	Total
North Has I Has a What Has (See	Foreign Line Crews Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Ground Liberty Utilities initiated a Joint Motanother operator initiated a Joint Motanother opera	Lebanon  Pup (NAMAG)  Dilization Conferer  Obilization Conferer  O	salem  ace Call through ence Call through ence Call through elecision? lecision? lecision? lecision? lecision? lecision decision? lecision? lecision? lecision?	NAMAG? ph NAMAG? short duration.)  As Of Meeting Tin	<u>Total</u>
North Has I Has a What Has (See	Foreign Line Crews Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Ground Liberty Utilities initiated a Joint Mote another operator Initiated a Joint Mote another Ini	Lebanon  Pup (NAMAG)  Dilization Conferer  Obilization Conferer  O	salem  ace Call through ence Call through ence Call through elecision? lecision? lecision? lecision? lecision? lecision decision? lecision? lecision? lecision?	NAMAG? ph NAMAG? short duration.)  As Of Meeting Tin	<u>Total</u>
North Has I Has a What	Foreign Line Crews Foreign Tree Crews Foreign Digger Crews  Atlantic Mutual Assistance Ground Liberty Utilities initiated a Joint Motanother operator Initiated a Joint Motanother Initiated	Lebanon  Pup (NAMAG)  Dilization Conferer  Obilization Conferer  O	salem  ace Call through ence Call through ence Call through elecision? lecision? lecision? lecision? lecision? lecision decision? lecision? lecision? lecision?	NAMAG? ph NAMAG? short duration.)  As Of Meeting Tin	<u>Total</u>

6. Is there a need to utilize local fire and police for Damage Assessment?

Service:			
Contractor:			
Contacted By:			
Action Items:			
ESTIMATED TIME OF 90°	% RESTORATION	(See Appendix I of the	Emergency Plan)
ESTIMATED TIME OF 909	% RESTORATION  Lebanon	(See Appendix I of the Salem	Emergency Plan) Charlestown
1. Live Wires / Extreme Hazards			
Live Wires / Extreme Hazards			

7. Outside Contractors Performing Other Services As Of Meeting Time

**Action Items:** 

5. Life Support Customers

Primary Circuits
 Secondary Circuits
 Final Circuit Sweep
 Permanent Repairs

Service: Contractor: Contacted By:

STAGING of CREWS, PERSONNEL and MATERIALS			
Are all Foreign Crews in place?			
Are additional Foreign Crews expected?	When?		

	LU Contact	<u>Lebanon</u>	Salem	<u>Charlestown</u>
Crews				
Location				
Onboarding				
Field Guides				
Stand-By Personnel				
Tools, Equipment, Materials				
Security				
Meals				
Lodging				
Municipal Room				
Regional EOC				
Damage Assessment				

**Action Items:** 

# COMMUNICATIONS – Updates

Storm/Event Accounting:

D.

A. Company Employees:
B. Governor / State Government / NH WebEOC:
C. NHPUC Safety Division:
D. Cities / Towns Storm Conference Call:
E. Customers / Critical Care Customers:
F. Public:
G. NAMAG & Other Industry Groups:
H. Other Pole Attachees:
REPORTS – Action Items
A. Prepare internal Storm Planning Report:
B. File Puc Form E-33 if required:
C. Continue to prepare and file all other required reports:
ADMINISTRATION
<ul> <li>A. Send all storm related information and documentation to "SM NH Storm Data".</li> <li>B. See CQ&amp;EM folder on Liberty Utilities East site for Emergency Management Forms and Reports.</li> <li>C. Pre-Staging Deferrable Event?</li> </ul>

Description	GP Expense Job	GP Capital Job	GP VM Job
Storm Event Ell Level			

### **INCIDENT COMMAND SYSTEM POSITIONS - Comments / Questions**

1. Incident Commander: 2. On-Scene Commander / Regional Commander: 3. Planning / Resource Officer: 4. Logistics Officer: 5. Financial Officer: 6. Human Resource Officer: 7. Liaison Officer: 8. Information Officer: 9. System Control Center: 10. Customer Call Center: 11. Data Collection Officer: 12. Gas Operations 13. IT Coordinator: 14. Safety & Health Officer: 15. Environment Officer: 16. Security/Facilities Officer: 17. Regulatory Compliance: 18: Others:

### **NEXT MEETING**

Meetings will be held twice daily (10am & 4pm)

- A. Date:B. Time:
- C. Location:
- D. Liberty Storm Conference Call Number: 1-888-875-1833

Guest Passcode: **430980** Host Passcode: **4309805** 



# Meeting Agenda - Post Event

Event Name: Meeting Number: Meeting Date: Meeting Time:

**Meeting Host:** 

President	David Swain			
Vice-President	TBD			
Assignments – Incident Command System	Primary	Attend	Secondary	Attend
Incident Commander	Kurt Demmer	Attoria	Rob Blank	Attoria
2a.Regional Commander-Salem	Rob Blank		Kurt Demmer	
2b.Regional Commander-Lebanon	Rob Blank		Kurt Demmer	
Planning/Resource Officer	Chris Brouillard		Steve Hall	
Logistics Officer	Rich Foley		Heather Tebbetts	
Financial Officer	Kevin McCarthy		Paul Kinch	
6. Human Resource Officer	Mark Smith		John Sanabria	
7. Liaison Officer	Michael Licata		Steve Mullen	
8. Information Officer	Susan Fenton		John Shore	
System Control Center	Norm Gallagher		Pete LePoer	
10 Customer Call Center	Kelly Goodwin		Christine Downing	
11.Data Collection Officer	Russ McIntyre		Maureen Karpf	
12.Gas Operations	Rich MacDonald		Gwyn Cassetty	
13.IT Coordinator	Don Romano		David Chung	+
14.Safety & Health Officer	Rich Paradie		Ken Salter	
15.Environment Officer			Rich Paradie	
	Mary Casey			
16.Security/Facilities Officer	Steve Szczechura		Doug Dorn	
Assimpments System Wide				
Assignments - System Wide	III Fitan atrial		Marile Carragas	
18.Municipal Room Coordinator	Jill Fitzpatrick		Mark Camasso	
19.Wires Down Office Support	Tracey Mini		Ted Cluff	
19 (a) Service Inspector Coordinator	Bob Reals		Emily Paquette	
20.Wires Down Field Assessor	Electric Operations		David Lania	
21.Damage Assessment	Ian Crabtree		David Lepie	
22.Tree Crew/Forestry Coordinator	Jeff Carney		Consultant	
23.OnBoarding Contractors	Rich Paradie		Ken Salter	
24.Field Guide Mutual Aid Contractors	Bob Johnson		Ken Salter	
25.Service Restoration/Outage Coordinator	Joel Rivera		Anthony Strabone	
26.Wires Down Standby Personnel	Bob Mostone		Alain Tinker	
Assignments - Salem				
17.Electric Operations Supervisor	Pat O'Neill		Mario Barone	
17.Electric Operations Supervisor	Pat O Neili		Mano Barone	
Assignments - Lebanon				
17.Electric Operations Supervisor	Travis Singer		Mario Barone	
Assignments - Oakville				
Operations, Engineering, IT				

Form Revised on December 14, 2015.

See the CQ&EM Folder on the Liberty East Community site for the list of Backup/Second Shift Assignments.

# SAFETY LESSONS LEARNED FROM EVENT

# **WEATHER**

#### A. Current Weather Report

- A. Source:
- B. Time:
- C. Description:

#### B. Future Weather Scenarios

- A. Best Case:
- B. Worse Case:
- C. Most Likely Case:

#### C. Ell EVENT Index

- A. Observed EEI Level:
- B. Confidence Level:

#### **Energy Event Index Definition**

No Leaves (Oct 1 - Mar 31) (winter override)

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

	Confidence Level
Low	< 30% chance
Medium	>= 30% to < 60% chance
High	>= 60% chance

#### **Action Items:**

# SITUATION ASSESMENT

1.	Has the Incident Comman Yes □ No □ A. Date: B. Time:	nder demobilized the Co	ompany resources?			
	Are Company em	ployees released from S	Storm Assignments	?		
2.	<b>Event Impact As Of Meet</b>	ng Time				
	A. Impact Date: 0	lick here to enter a date.				
	B. Impact Time:					
	C. Impact Duration					
	<ul><li>D. Impact Location</li></ul>					
	E. Impact Descrip	otion:				
3.	Event Type As Of Meeting	a Time				
	A. Best Case: Ch					
	Custo	mers Impacted -				
	B. Worse Case: (	·				
	Custo	mers Impacted -				
	C. Most Likely Ca	se: Choose an item.				
	Custo	mers Impacted –				
4.	Has the Governor declare	ed the end of the State o	of Emergency?			
5.	Has the State closed its Emergency Operations Center?					
_				_		
Ь.	Has the NHPUC Safety D	ivision declared the end	of the Wide-Scale	Emergency?		
7.	Damage Assessment Sur	nmary As Of Meeting Ti	me:			
		<u>Lebanon</u>	<u>Salem</u>	<u>Charlestown</u>		
	Peak Number of					
	Customers Affected Peak Percent of				_	
	Customers Affected					
	Remaining Number of				1	
	Customers Affected					
	Remaining Percent of					
	Customers Affected					

**Action Items:** 

# RESOURCE DEPLOYMENT

**Notes:** A crew generally consists of two people with a truck and equipment.

<u>Line Crews:</u> Responsible for switching and repair of equipment and hardware and the final energizing of the line. <u>Digger Crews</u>: Responsible for replacing utility poles.

Tree Crews: Responsible for removing and relocation of downed trees and limbs to eliminate safety hazards.

On Property Crews: Outside contractor crews currently working in state for Liberty Utilities at the time of the event.

Foreign Crews / External Crews / Mutual Aid Crews: Outside company or contractor crews requested by LU.

#### 1. Company Resources Required to Restore Electric Service As Of Meeting Time

(Liberty Utilities blue sky staffing level is 13 crews.)

	<u>Lebanon</u>	<u>Salem</u>	<u>Charlestown</u>	<u>Total</u>
LU Line Crews				
On Property Line Crews				
Additional Contractor Line Crews				
LU Tree Crews				
On Property Tree Crews				
Additional Contractor Tree Crews				
On Property Digger Crews				
Additional Contractor Digger Crews				

2. Foreign / Mutual Aid Resources In State to Restore Electric Service As Of Meeting Time

	<u>Lebanon</u>	<u>Salem</u>	Charlestown	<u>Total</u>
Foreign Line Crews				
Foreign Tree Crews				
Foreign Digger Crews				

3. Additional Foreign / Mutual Aid Resources Needed to Restore Electric Service As Of Meeting Time

	<u>Lebanon</u>	<u>Salem</u>	Charlestown	<u>Total</u>
Foreign Line Crews				
Foreign Tree Crews				
Foreign Digger Crews				

4.	North	Atlantic	Mutual	Assistance	Group	(NAMAG)	
----	-------	----------	--------	------------	-------	---------	--

Holding Who made the decision?	
Requesting Who made the decision?	
Offering Who made the decision?	

5. Damage Assessment Resources Needed to Restore Electric Service As Of Meeting Time

	<u>Lebanon</u>	<u>Salem</u>	Charlestown	Total
Wires Down Office Support				
Wires Down Field Assessor				
Wires Down Standby				
Damage Assessment				

_	Outside Contractors Borforming Other Consises As Of Mosting Time
6.	Outside Contractors Performing Other Services As Of Meeting Time
	Service:
	Contractor:
	Contacted By:
	Service:
	Contractor:
	Contacted By:
	Contacted by:
	Action Items:
	Additional

# 

**STAGING of CREWS, PERSONNEL and MATERIALS** 

	LU Contact	Lebanon	<u>Salem</u>	<u>Charlestown</u>
Crews				
Location				
Onboarding				
Field Guides				
Stan-By Personnel				
Tools, Equipment, Materials				
Security				
Meals				
Lodging				
Municipal Room				
Regional EOC				
Damage Assessment				

**Action Items:** 

# **COMMUNICATIONS – Updates**

A. Company Employees:	
B. Governor / State Government / NH WebEOC:	
C. NHPUC Safety Division:	
D. Cities / Towns Storm Conference Call:	
E. Customers / Critical Care Customers:	
F. Public:	
G. NAMAG & Other Industry Groups:	
H. Other Pole Attachees:	

# **REPORTS – Action Items**

- A. File Puc Form E-33 if required:
- B. Prepare internal Storm Planning Report:
- C. Prepare internal Storm Summary Report:
- D. Continue to prepare and file all other required reports:
- E. Prepare NHPUC After Action Self- Assessment (within 60 days)
- F. Respond to any outstanding NHPUC Safety Division Data Requests.
- G. Prepare Annual Storm Fund Report (file by April 1st of the next calendar year)

Is there a need to schedule follow-up meetings with any of the above?

H. Send Lessons Learned and Areas of Improvement Suggestions to the "SM NH Storm Data".

### **ADMINISTRATION**

- A. Send all storm related information and documentation to "SM NH Storm Data".
- B. See CQ&EM folder on Liberty Utilities East site for Emergency Management Forms and Reports.
- C. Is this a Qualified Storm Event?
- D. Storm/Event Accounting:

Description	GP Expense Job	GP Capital Job	GP VM Job
Storm Event EII Level			

### **INCIDENT COMMAND SYSTEM POSITIONS - Comments / Questions**

- 1. Incident Commander: 2. On-Scene Commander / Regional Commander: 3. Planning / Resource Officer: 4. Logistics Officer: 5. Financial Officer: 6. Human Resource Officer: 7. Liaison Officer: 8. Information Officer: 9. System Control Center: 10. Customer Call Center: 11. Data Collection Officer: 12. Gas Operations 13. IT Coordinator: 14. Safety & Health Officer: 15. Environment Officer: 16. Security/Facilities Officer: 17. Regulatory Compliance: 18: Others: **NEXT MEETING** Meetings will be held twice daily (10am & 4pm) A. Date: B. Time: C. Location:
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Updated Doomster 17, 2015

# Emergency Planning Matrix 3 Day Checklist Storm Name / Date:\_

Besperability	2 Days in Advance	2. Days in Advance	1 Day in Advance	Open EGC
Emergency Planning	Manitan/Communicate	Wonter Communicate	Monitor/ Convenienceto	Monitori Communicate
Blactric Operations NOA Dispatch & Control West West		MOAAMWS Weather Bug	NCIAARDA'S Weather Bug Weather Underground	TWO BROWN THE CASE
	Telepit	Telepol	Teleport	
Emergency Planning	Review Planu	Revew Plans	Review Plans	Follow Plame
RECORDS COMMUNICIAN		Energency Response Matrix Protien checklids	Emergency Plan Emergency Response Matrix Position chacklists	
VC /Inerations	Devices role responsibilities	Deservicie remonstrates	Service min representations	Communicate to key
Electric Ops Director	Communicate to key		Communicate to key personnel	personnel
Emergency Planning	Use ICS Ong Chart EEP	TENNISCRAFFICERSON	Use ICS Org Chart EEP	
		Notify eccential ICS Staff and	Notify wasenful ICS Staff and	Notify essential ICS Staff
Emergency Planning	Use Poster Checklet	Use Position Checklet	department personnel Use Position Checkfist	and department person Use Position Checklet
Incldent Commander	Communicate to 105 Staff		Communicate to ICS Staff and	Communicate to ICS St
Emergency Planning	and department personnel.	department personnel Update as necessary	department personnel Update as necessary	and department persons Update as necessary
Electric Operations	Check resource availability	Make union notifications and	blace union coolingtons and cancel	Activate Crews
Broident Commander Martian Recourses		percet vecefors if required Prepare Crew Transfer Sheet	vacations if required Prepare Crew Transfer Shout	Localitation .
Forestry Coordinator	Check resource availability	Verify need	Source cream and put on stand by	Activate Creves
Electric Operations	Nostly Vandors	Northy vandors: Start securement process if necessary	Propers Crew Transfer Sheet	
Specializat Community	New York and a second of the s		Marilla countries of a second of	Activate Crews
Electric Operations	are currently on the property	ourrently on the property	currently on the property	COMP CIENT
Emergency Planning	Identify additional resources	Identify additional resources	Identify admittored recourage meeded	
200 100 100	receded	Request additional resources	mequest additional resources. Use contractor contact Set	
		Use contractor contact list Prepare unew transfer sheet	Prepare ones transfer sheet	
Electric Operations	Check resource availability	Make union rotifications and	Prepare revision reports	Activate as necessary
Incident Commander		cancel vacations if required.	Prepare Crew Transfer Sheets	Commission of the Commission o
Covernment Relations	Check contacts	Check contects	Check contacts	Sand Resource Report
Electric Operations	Resource Report if	Resource Report #-contacted	Resource Report If contacted	report and recent
	contacted	If additional Resources are	if eddforel Resources are secured,	Provide Customer Oute
	If additional Resources are secured, revise report and resend.	tescured, review report and resident.	revise report and resend	Report. Both in accordance with EEP
Municipal	Check contacts	Check contacts:	Check contacts	Notify Municipals of
Reletion of Lieison	Access need for pre-event	Access need for pre-event.	Access seed for pre-event contact	Operang
Coordinator	THE R.			
		numbers, etc.	Contact to nebby of intent to open	
		MAN POOR		
Costomer Contact Center Manager	Determine staffing needs and make additional resource notifications	Review medical notification process (critical care customers)	Setup backup processes and supplies	Implement CCS procedures
Finance/Procurement			Contact AP to increase Starm Cord	
	necessary		DOA for starm card expenditures (if percessary)	
Finance/Procurement Emergency Planning	Prepare work request	Prepare sonk request	Isoue work request	
Emergency Planning	laterify need.	Identify need & inform IT	identify need & inform IT	Confirm or activate
	La fermana			delivery
	Ask each dept for need	Make available	Chargo and opposits	Change and operate Advate Energency
Incident Commander		pool list & identify need		Activate Emergency Assignments as
MR		The state of the s		appropriate
	Review bring	Identity Need	Contact recourses. Prenous "First Guide" Ms Walnes	Activate Retree
Emergency Planning Electric Operations	Review liding	Identity Need Follow-up	Prepare "Field Guida" kits including	Activate Retree Resources
			Contact recources: Prepair Teint Guide" lifs including: Switch Feeders to normal. Exchange names of contact persons. Test radio frequencies.	Activate Retree
Emergency Planning Electric Operations Incident Commender Electric Operations		Follow-up	Prepare "Field Guide" kits including Suidabl Feeders to normal. Exchange names of contact persons. Test radio the querions. Request resource to be activisted or	Activate Retree Resources
Energency Planning Electric Operations Incident Commander	Foline-op	Follow-up	Prepare 'Field Guide' lifts including Switch Feeders to normal Exchange names of contact persons. Test radio frequencies	Activate Retires Resources Notify of spening
Emergency Planning Electric Operations Incident Communities Electric Operations Incident Communities Incident Communities Salecy	Foline-op	Follow-up	Prepare "Field Guide" kits including Suidabl Feeders to normal. Exchange names of contact persons. Test radio the querions. Request resource to be activisted or	Activate Retirue Resources Notify of apening Activate Resources Meet with Contractors on
Energeocy Planning Blechic Operations Incident Commender Electric Operations Incident Cummander Salery Energeocy Planning Electric Operations Energeocy Planning	Falkne-up	Follow-up Request resources required.  Make available	Propose "Field Guide" kits including Switch Feeders to normal Exchange names of contact persons. Test radio frequencies Request recount to be activated or place on stand-by	Activate Retires Resources Notify of opening Activate Resources
Energency Planning Blechic Operations Holdert Cemmander Electric Operations Soldert Cemmander Salery Electric Operations Electric Operations Electri	Folian-up Tidentify need.  Check Quantilies Identify need.	Folias-up  Request resources required  Make available  Confirm Availability	Prepair First Outer his including Switch Feeder to neither Exchange names of contact persons. Test radio flexpression Requisit resource to be achieted or place on stand-by Contify need Deliver Enecessity.	Activate Retries Presenting Notify of apuning Autivate Resources Meet with Contractors on technic Definer if necessary
Energency Planning Selectric Operations biolidest Commander Electric Operations stockless Commander Saling Energency Planning Electric Operations Electric Operations El	if olima-op identity need. Check Quantities Identity need.	Folinis-up  Raquest resources required  Wake available  Confirm Availability  Secret Resources (Indignigified)	Prepair First Outer his including Switch Feeder to network Exchange names of contact persons. Text radio frequencies Required resource to be adhered or place on stand-by Contact you Contact on the contact of Deliver Finedosary.	Activate Refrae Resources Notify of apening Activate Resources Meet with Contractors on
Energency Planning Blechic Operations Holdert Cemmander Electric Operations Soldert Cemmander Salery Electric Operations Electric Operations Electri	if olima-op identity need. Check Quantities Identity need.	Folias-up  Request resources required.  Make available Confirm Availability  became Restauranti adjrugif set Security need Security need	Prepair Firet Osatar Alta Including Switch Feeders to netwal. Exchange reames of contact persons. Text radio frequenties. Required resource to be advisated or state Adv. Collect Feeders Collect Feeders Collect Feeders Collect Feeders Contact Collect Feeders Contact Collect Feeders Contact Collect Coll	Activate Retinue Remarkere Netify of opening Netify of opening Meet with Contractors on Inside Definer if necessary Confirm locations and
Emergency Planning Debects: Operations Incident Commander Stockers Commander Stockers Commander Stockers Commander Emergency Planning Emergency Planning Bean & Rescaled Lead Logistics Coordinator Logistics Coordinator Emergency Planning Emergency Planning Bean & Rescaled Lead Logistics Coordinator Emergency Planning Emergency Planning Emergency Planning Emergency Planning Emergency Planning Emergency Planning Emergency Planning Emergency Planning Emergency	if clina-ap Identity need.  Check Question Identity need.  Santity need.  Santity need.  Herithy need.	Folias-up  Request resources required.  Make available: Conforn Availability Dantilly need. Secon Restaurantill origing Finel Secon Restaurantill origing Finel	Prepair First Outer his solution; Switch Feeder to network. Switch Feeder to network. Exchange names of content persons. Test radio frequencies Request resource to be advistable or place on stand-by identify need. Switch Prepair and Lodging/Feel Switch.	Activate Retinue Revenueure Revenueure Notify of apening Notify of apening Activate Resources Deliver if necessary Confirm locations and water and applications and activate activate and activate a
Emergency Planning Decists Operations Incident Commander Sectors Commander Salary Encourage Planning Emergency Planning Bean & Rescale Lead Logistics Coordinator Lugistics Coordinator Emergency Planning Emergency Planning Emergency Planning Emergency Planning Emergency Planning Emergency Planning Emergency Planning Emergency Planning	If cline-up Identify need.  Check Questiles Identify need.  Santify need.  Identify need.  Identify reed.  Review (Inventory and challed reeds.	Folias-up  Request resources required  Wake available  Confirm Availability  Secure RestauraniiTun signigifi ani matrix  Secure RestauraniiTun signigifi ani matrix  Trackiy  Request any acottomal resold	Prepair Flield Guatar kin schooling Switch Flielder to nectral. Exchange rames of contact persons. Text radio flield persons. Request resource to be activated or place on stand-by Centry India. Deliver Finecessary. Centry read Secure Restaurantit odging/Feat continue. Secure Restaurantit odging/Feat continue. Text of the contact of the contact months. Resource Restaurantit odging/Feat months. Resource Restaurantit odging/Feat months. Resource Restaurantit odging/Feat months.	Activate Retirue Revenuerum Nostify et apening Nostify et apening Activate Resources Meet with Contractors on Indiana Contractors on Indiana de Contractors on Indiana de Contractors on Indiana de Contractors on Indiana Contractors on In
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### **ELECTRIC EVENT ORGANIZATION**

**Event Name:** Date: Time:

System

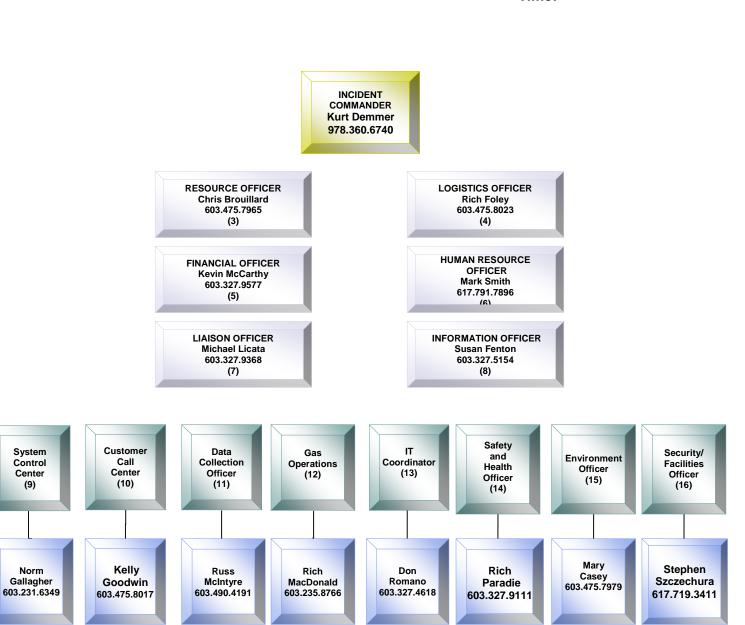
Control

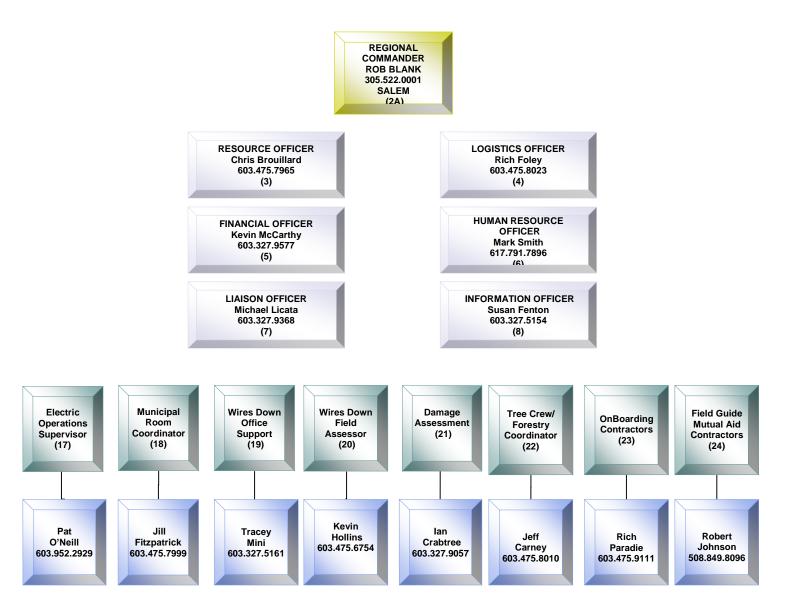
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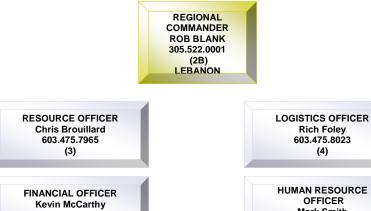
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**LIAISON OFFICER Michael Licata** 603.327.9368 (7)

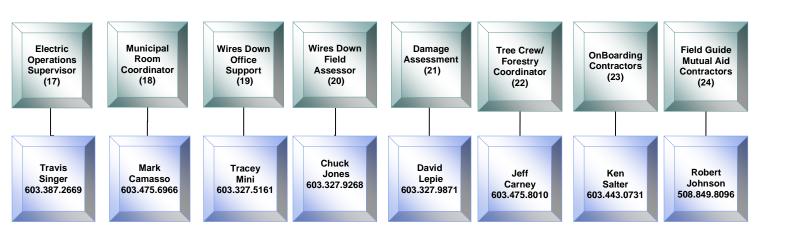
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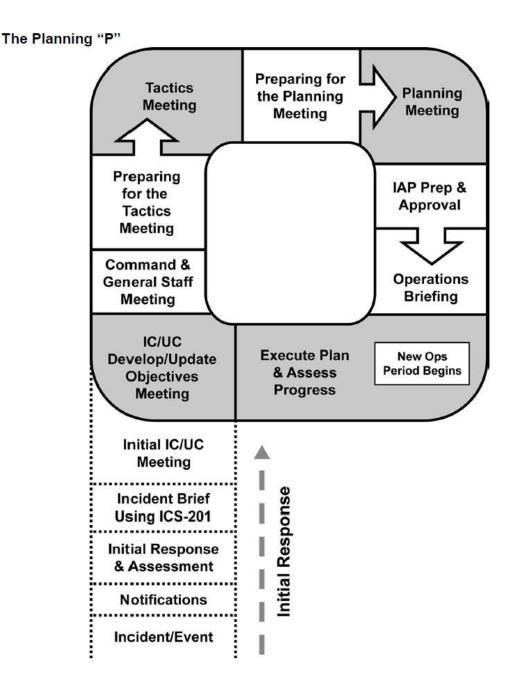
(5)



Rich Foley 603.475.8023

(4)





- The Planning "P" is a guide to the process and steps involved in planning for an incident. The leg of the "P" describes the initial response period: Once the incident/event begins, the steps are Notifications, Initial Response & Assessment, Incident Briefing Using ICS 201, and Initial Incident Command (IC)/Unified Command (UC) Meeting.
- At the top of the leg of the "P" is the beginning of the first operational planning period cycle. In this circular sequence, the steps are IC/UC Develop/Update Objectives Meeting, Command and General Staff Meeting, Preparing for the Tactics Meeting, Tactics Meeting, Preparing for the Planning Meeting, Planning Meeting, IAP Prep & Approval, and Operations Briefing.
- At this point a new operational period begins. The next step is Execute Plan & Assess Progress, after which the cycle begins again.

Source: draft NIMS document

#### **APPENDIX I**

#### **RESTORATION OF SERVICE**

#### GENERAL

Emergency work is done and service is restored generally in the order of priority below.

#### **RESTORATION PRIORITY**

#### 1. Live Wires and Extreme Hazards

The elimination of hazards to the public takes precedence during emergencies. Available local personnel are to be divided into the minimum size crews required to clear the hazards. Wires are cleared so that service can be restored up to the break.

#### 2. Transmission

Transmission line restoration is prioritized by National Grid Network Operations. Bulk power circuits not directly affecting substations are assigned priority depending on the importance of the circuit and the effect of its loss on the bulk power system. The need for bulk power circuits is determined by the Transmission Control Center Shift Supervisor in coordination with the applicable Dispatch & Control location. Although Liberty Utilities does not own Transmission facilities in NH, these facilities owned by National Grid supply the substations and monitoring systems.

#### 3. Substations

Substation repairs are directed by the Supervisor Substation Operations. He/she consults with the Liberty Utilities Dispatch & Control Center and the National Grid Transmission Control Center Shift Supervisor to determine the order of restoration.

#### 4. Critical Facilities

Priority and consideration for restoration is given Critical Facilities. Specific requests for other restoration prioritization should be made to the Incident Commander or designee.

#### 5. Life Support Customers

Efforts will be made to restore service to Life Support Customers as quickly as conditions warrant.

#### 6. Primary Circuits

Main portions of primary circuits will be restored by cutting faulted sections cleared either by opening switches or cutting wires. Primary faults will then be corrected to restore all primaries.

#### 7. Secondary Circuits

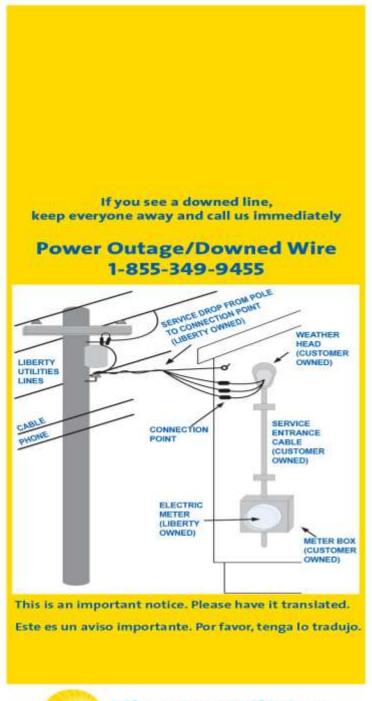
Secondary, multiple street lights, and services will be restored at the same time. A crew will attempt to complete all the work on one visit to a trouble location. It is the Crew Leader's duty to examine the trouble location and repair any trouble. If the customer's equipment requires repair, he will notify the customer, using the attached form, and restore the service wires, leaving them disconnected at the house. Personnel other than Lineworkers may be utilized for secondary and service restoration.

#### 8. Final Circuit Sweep

Final circuit sweeps will be assigned to line and tree crews.

#### 9. Permanent Repairs

After all service is restored, permanent repairs will be made to temporary jobs. During the restoration of service, permanent repairs should be made if practicable to avoid hazardous conditions and eliminate duplication of effort. A log of temporary repairs will be made during the restoration process to facilitate the installation of permanent repairs at these locations.





Addre	ess
Date/	Time of Visit
nitial	s
) Re	epairs were made. Please contact us if problem persists or if you have any questions.
) PI	ease contact an electrician. See reverse.
) w	le could not locate the source of the reported trouble. Please contact us at 1-800-375-7413
) Tr	ee trimming performed.
<b>)</b> 5ι	urveyed trouble. Situation made safe and Liberty Utilities will return at a later date to make permanent repairs.
O N	on-Liberty Utilities equipment. Please contact:
	○ Telephone Co. ○ Cable Co.
	OTown Other



#### PRE-STAGING CREWS

Early requests for mutual assistance are critical to having additional resources arrive as quickly as possible and in sufficient quantities.

When deciding to procure and coordinate outside resources, the decisions and notes of decisions must be documented. These decision points shall be included in future Post-Storm After Action reviews.

When a Wide-Scale Emergency (potential of affecting 10% or more of our customers) is anticipated, the Company should follow a written procedure for pre-staging crews.

#### The procedure should:

- 1. Identify staging areas needed for crews, equipment and materials.
- 2. Prepare staging areas to receive crews, equipment and materials.
- 3. Factor in travel conditions and travel time for deciding when and where to pre-stage.
- 4. Account for upcoming Holiday periods, if any. (See Section J.) Businesses may be closed.
- 5. Determine how many crew resources will be needed based on forecasts.

  (See the EEI Table in Appendix A and the Meeting Agenda Prior to Event Form in Appendix H.)
- 6. Notify all Liberty Utilities NH employees of the activation of their Storm Assignments.
- 7. Utilize the available pool of resources both internally and through the North Atlantic Mutual Assistance Group (NAMAG). See Appendix L. There is a well-established set of guidelines for all operators within a particular region for obtaining outside additional resources. It is imperative that all operators follow these guidelines to ensure the timely and effective utility restoration response for all affected customers in New Hampshire and the surrounding region.
- 8. Incorporate historical restoration data and lessons learned from past Wide-Scale Emergencies. (See Appendix E.)
- 9. Anticipate that repeat outages occur on many circuits so that some restoration becomes temporary and permanent restoration may require multiple trips to some locations.
- 10. Follow the OnBoarding procedure and Field Guide for Mutual Aid Groups.

#### The NHPUC:

- "Advocates that it is less costly to pre-stage external crews and shorten the overall duration of customer outages by quickly ramping up the restoration crews with large amounts of external crews."
- "Promotes triggering of action plans at the earliest practical moment even though potential storms may not ultimately materialize."

Source: NHPUC After Action Report Thanksgiving Snowstorm dated September 29, 2015, page 66.

#### **APPENDIX J**

#### **DAMAGE ASSESSMENT**

#### INTRODUCTION

Damage Assessment or Storm Damage Appraisal is performed to assess physical damage such as wires down and poles broken on overhead Distribution and Sub-Transmission lines following a storm event. The Storm Damage Appraisal process will be used to formulate the appropriate level of storm response by Liberty Utilities Electric Operations Team.

This procedure describes the activities undertaken 72 hours in advance of the storm, 24 hours in advance of the storm, and immediately after the storm, and clearly defines roles and responsibilities. Additionally, this procedure describes the discrete phases of the Storm Damage Appraisal process.

#### **GENERAL**

If damage to the overhead Sub-Transmission system and/or the Distribution system is extensive as indicated by a large number of locations, helicopter surveys may be initiated as soon as practicable. If Distribution circuits are out due to a Transmission outage, but it is known that the Distribution feeder(s) were damaged from the event, Distribution surveys should commence prior to the Transmission system being energized, if possible, to reduce Distribution restoration time.

Field surveys are the main source of information on the scope and severity of damage conditions. This first step will normally be a Phase I Survey. Results from this survey, combined with current weather forecasts, Responder data, 911 calls, and customer calls, will dictate further actions. The Regional Incident Commander will determine the need for a Phase II Survey and what personnel would be required to conduct it.

#### **RESPONSIBILITIES**

The following responsibilities have been assigned to ensure the proper maintenance of the Storm Damage Appraisal process.

#### Regional Engineering/Planning Officer (Damage Appraisal)

- Reports to the Regional Incident Commander
- Oversees the Damage Appraisal Patrol and Work Packet Support Process
- Ensures that work is prioritized based on the Priority Feeder ranking, OMS Customer count, direction from Dispatch Control Centers, and direction from Regional Storm Rooms
- Receives and organizes Damage Appraisal teams and Runners
- Acts as single point of contact for Damage Appraisal teams and Runners
- Coordinates lodging and meals for Damage Appraisal teams
- Coordinates with Logistics Officer for additional Fleet needs
- Provides updates on known road closures to Patrollers
- Provides materials required by Damage Appraisal teams
- Assigns patrols to teams
- Tracks progress of Damage Appraisal teams
- Assigns Runners as necessary for pickup or delivery of damage patrols and work packets
- Receives calls from field teams on completed work packets and informs Damage Appraisal Patrollers and coordinates response appropriate to the conditions
- Ensures that unsafe and hazardous conditions are corrected
- Ensures that team members have the materials required
- Informs the Damage Appraisal Manager of needs, problems, and progress

#### **Damage Appraisal Patroller**

- Reports to the Regional Engineering/Planning Coordinator (Damage Appraisal)
- Performs damage patrols as assigned
- Returns patrol paperwork to the Regional Engineering/Planning Coordinator (Damage Appraisal)
- Where unsafe conditions are found, makes the area safe, notifies the Regional Engineering/Planning Coordinator (Damage Appraisal), and stands by until relieved, if necessary
- Abides by all Liberty Utilities Safety Guidelines
- Ensures that unsafe and hazardous conditions are corrected

#### **Damage Appraisal Work Packet Support Coordinator**

- Reports to the Regional Engineering/Planning Coordinator (Damage Appraisal)
- Supervises the work packet support process
- Coordinates lodging and meals for Work Packet Support personnel
- Provides the materials required for the Work Packet Support process
- Receives completed damage patrol paperwork
- Reviews patrol forms for completeness and accuracy
- Builds work packets using damage patrol materials
- Prioritizes work packets
- Coordinates delivery of Work Packets to Field Teams
- Collects completed work packet paperwork
- Following the storm, ensures that completed work packets are transferred to Engineering to build confirming work plans capturing plant items installed
- Reviews material requirements and notifies Logistics Officer, or designee, of any large quantities of stock or specialty equipment that may require procurement

#### Regional Damage Appraisal Work Packet Support Team

- Creates a work packet for restoration crews
- Assigns a unique work packet number and records this number on the envelope and all detail sheets inside
- Photocopies the envelope and detail sheets
- Staples the package as a work packet
- Records the crew or Supervisor receiving the packet on the original envelope, if possible
- Gives the photocopied work packet to the restoration crew
- Retains the original Damage Patrol envelope and Damage Patrol detail sheets at the staging area for tracking

#### **Restoration Crews**

- Make repairs as indicated by the work packet
- Enter details about the actual repairs made in the space provided on the Damage Patrol detail sheets included in each work packet; it is important that the restoration crew list the details of items removed and installed to facilitate building confirming work plans following the storm
- Report completed repairs to the Branch by Work Packet Number

#### **PROCESS**

The steps presented on the following pages direct the responsible parties through the Damage Appraisal process.

#### Pre-Storm

Damage Appraisal Preparation - 72 Hours in Advance of the Storm Using weather forecasts, the Regional Engineering/Planning Officer will make arrangements for the deployment of Damage Appraisal teams to the potentially affected areas in advance of or following the arrival of the storm.

- Decides on the advance placement of Damage Appraisal Patrollers
- Arranges for personnel to report as Damage Appraisal Patrollers
- · Prioritizes the circuits by Critical Facility for Damage Patrol
- Ensures all Damage Appraisal Patroller material requirements are met
- Assigns the circuits to local personnel for Damage Patrol on return to work

Regional personnel should be assigned circuits to Damage Patrol on their commute to their storm assignment. These Damage Patrols would be very preliminary and used to build a very high level estimate of restoration crew requirements. Circuits patrolled by Regional personnel on their commute will be scheduled for a second Phase 1 Damage Patrol by a Damage Appraisal Patroller.

Regional personnel should be made available in sufficient numbers to determine feeder lockouts and be available for circuit sectionalizing and wires down response. If Damage Appraisal Patrollers are delayed by wires down, a timely and accurate restoration estimate will not be achieved.

If there is extensive damage to the overhead Sub-Transmission system and/or the Distribution system, helicopter patrols may be arranged and completed as soon as practicable.

#### Immediately After the Storm

Damage Appraisal Patroller

- Within 24 hours of the end of the storm, performs Phase 1 Damage Patrols as directed by the Regional team
- Within 48 hours of the end of the storm, performs Phase 2 Damage Patrols as directed by the Regional team
- Documents the damage and repairs necessary on the Damage Appraisal Patrol forms (Exhibit 1 of this section)
- Places all forms from a single location into the Damage Appraisal Patrol envelope (Exhibit 2 of this section)

#### Regional Damage Appraisal Work Packet SupportTeam

- Tallies the material and repair requirements on the Damage Patrol envelope
- Creates the Estimated Crew Hour Requirement from the tally
- Creates a work packet using the Damage Patrol envelope and detail sheets
- Estimates the restoration time by the number of restoration crews available
- Assigns the work packets to restoration crews
- Tracks the work using a Regional Damage Spreadsheet

#### **Restoration Crews**

- Use the work packets to assign crews and equipment to complete restoration
- Track the materials used on the Damage Patrol detail sheet
- Report restoration by work packet number

#### Post-Storm

**Regional Engineers** 

Use completed work packets to build and close out confirming work plans where applicable

Regional Damage Appraisal Team

Transfers the completed work packets to Engineering at the conclusion of the storm

#### SUBSTATION SURVEYS

A survey of all non-EMS substations should be implemented to check for lockout and/or station conditions/damage in the early stages of an event.

#### **PHASE I SURVEY**

Implemented within 24 hours of the end of the storm, this type of survey concentrates on main 3-Phase lines, the fuses for taps, and highly populated areas. Conclusions on damage from this survey as well as Responder data, customer calls, and 911information, will allow management to quickly formulate appropriate action such as calling for additional crews and/or ordering a Phase II Survey of the appropriate magnitude.

#### PHASE II SURVEY

Implemented within 48 hours of the end of the storm, this is a complete survey of individual Distribution feeders, recording damage and problems requiring correction. The extent of this survey and the size of the survey work force will be dictated by known damage conditions and any further damage anticipated by continued storm activity.

#### SURVEY RESULTS FOR ESTIMATED RESTORATION TIME AND RESOURCE REQUIREMENTS

The Regional Engineering/Planning Coordinator (Damage Appraisal) will determine the estimated man hours of work to complete the restoration. This will be calculated by using the work sheet on the Damage Patrol envelope.

The need for additional crews will be determined by the repair time estimates and the crew availability within the affected region. It is important that Transmission requirements also be incorporated into repair hour estimates.

#### **FEEDER SWEEPS**

It is common practice in areas severely affected by storm damage to complete feeder sweeps or final surveys at the completion of the restoration event prior to the release of line crews. This sweep is to ensure that all services are restored and that all temporary repairs are noted and/or completed. There are applications where line crews will be required for restoration, but some or many feeders may have already been fully restored. In this application it may be appropriate to begin feeder sweeps with traditional survey personnel so that line crews may continue with the restoration process, while reducing the overall restoration time to Liberty Utilities customers.

# Damage Assessment Worksheet

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Item	Brk Pole*	Anchor	Transformer*	Guy Wire	3P Pri Down	1P Pri Down	Sec Down	Crossarm / Pin	Cutout /Disconnect	Recloser / Airbreak	Regulator	Capacitor	Streetlight	Floodlight	Service	Tree**	DESCRIPTION OF DAMAGE	POLE#
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2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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																	ESTIMATED CREW HOURS	
Item	Brk Pole*	Anchor	Transformer*	<b>Guy Wire</b>	3P Pri Down	1P Pri Down	Sec Down	Crossarm / Pin	Cutout / Disconnect	Recloser / Airbreak	Regulator	Capacitor	Streetlight	Floodlight	Service	Tree**	Need Totals for Storm Status I *Indicate S-Street, R-Right of W Field/Rear Lot **Indicate L-Line or T-Tree Tri Required	ay or F-

# Damage Patrol Envelope – Work Packet

Repairs Complete  Energized			Time	
Energized				Division
2		-		Region
<u></u>				
0 11 11 0 1 1				Station / Feeder
Called in Complete				Patrol Phase Phase 1 Phase 2
Estimating Cre	w HourReq 2 person cre	•		Final Sweep
Line Crew		Crew	Total	Crew Type Line Tree
Equipment	Quantity	Hours	Hours	
Pole		8		HoursPoles
Pole - offstreet		12		<u> </u>
Anchor		2		3 Ph Pri Spans_1 Ph Pri Spans
Transformer		3		· <del>-</del>
Transformer- off street		5		Sec SpansTransformers
Guy Wire		1		
3 Ph Primary Span		4		Work Packet Number
1 Ph Primary Span		2		
Secondary Span		2		
Crossarm / Pin		1		
Cutout / Disconnect		1		Assigned To:
Recloser/Airbreak		10		
Regulator		8		Tree Work Required before Line Work Can be Completed
Capacitor		4		
Streetlight		1		CRITICAL CUSTOMER
Floodlight		1		
Service		2		Environmental Cleanup Required
Limbs on Wires		1		
T		Total		Dig Safe Notification:
Tree Crew Needed	T	2	T 1	
Tree Crew Needed		∠ Total	+	

#### **APPENDIX K**

#### SUBSTATION DECENTRALIZED OPERATIONS

#### **GENERAL**

If the extent of damage is such that decentralization to the substation level is required, the Regional Incident Commander will have overall responsibility for implementation of items within this section of the plan.

Severe storms which eliminate the direct interchange of information between the Regional Storm Room and the field may be worked by assigning whole feeders or substation areas to a task force group. The group would consist of necessary supervision, line and tree crews, and support personnel to work without outside direction and to restore service according to established restoration priorities. The Substation Group Leader and group will report to the Regional Incident Commander.

The Substation Group Leader will update the Regional EOC in a timely manner and submit a report to the Regional EOC every 6 hours or at other predetermined time intervals. The restoration board should be utilized for the marking of crew locations, which will aid in the overall planning of crew movements and give a visual indication of crew locations and how best they can be utilized. As work in a particular area nears completion, customer calls indicating that an outage still exists can be plotted and then related to the appropriate field crew. This will give a better picture at the EOC regarding actual progress in that area.

When tree crews are working independently of line crews or when numerous tree crews are required to assist in a decentralized mode they should be supported by adequate field Forestry supervision.

The goal of the Forestry portion of this task force will be to support line restoration efforts with 1 tree crew for every 5 line crews and to provide advance tree clearing with additional groups of tree crews working ahead of line crews on feeders.

The respective duties of all are outlined below.

#### SUBSTATION GROUP LEADER

- 1. Makes all necessary decisions affecting the restoration effort of the decentralized area including mutual aid requirements.
- 2. Prioritizes the damage and work locations for the most rapid and effective restoration.
- 3. Determines in which areas Damage Assessments should be conducted and keeps abreast of their status. Survey crews should be assigned to the Regional Incident Commander responsible for restoration in a particular area. In the event that the survey crew is not needed to survey some other area, they should be assigned to the Regional Incident Commander until the complete restoration is accomplished in that area. A survey crew should be assigned to each field Supervisor.
- 4. Coordinates the request for and the movement of all Company and foreign crews, including service crews, for timely restoration. A log made of locations to which to send the crews once their current assignment should be completed.
- 5. Groups the crews into different work schedules and staggers them for highest productivity. This should be coordinated with the Regional EOC.
- 6. Makes arrangements for timely deliveries of materials from Procurement.
- 7. Arranges for the periodic reporting of present status to the Regional EOC. This reporting includes the compilation of information for the "Storm Status Report," prediction of restoration times for Customer Service Center use, etc.
- 8. Delivers any pertinent information from the Regional EOC to the field Supervisor and personnel through the Outage Coordinator.
- 9. Obtains an adequate amount of circuit maps for the crews to use.
- 10. Notifies foreign crews of their accommodations.
- 11. Coordinates all meal periods.
- 12. Determines assignment of cleanup crews. Minimizes the use of these crews until all major restoration is complete.
- 13. Arranges for the restoration of station breakers in coordination with the Regional Storm Room, Dispatch & Control, and field supervision.

- 14. Marks on the map the locations of primaries down, services down, trees down, crew locations, etc.
- 15. Keeps a log of all crew locations with their work schedule, affiliation, and field leader.
- 16. Sorts all incoming data and records data from Damage Surveys.
- 17. Coordinates with the Substation Group Leader on locations to which to send crews and damage surveyors.
- 18. Utilizes Responder to support the restoration effort.

#### **OUTAGE COORDINATOR**

- 1. Relays information and assignments over the radio.
- 2. Maintains a logbook on crew locations, times, and all information given. This will reduce confusion and lost information.
- 3. Notifies the Substation Group Leader of information requiring his/her approval or decision.
- 4. Relays all necessary information regarding restoration over the telephone.
- Maintains a logbook of all transactions that occur over the telephone so that information is not lost.
- 6. Updates storm status reports at designated time intervals and relays this information to the Regional EOC.
- 7. Coordinates with the Substation Group Leader and Lodging for crew accommodations.
- 8. Makes a record of temporary repairs so that permanent repairs may be completed later.
- 9. Utilizes Responder to support the restoration effort.

#### LINE SUPERVISOR

- 1. Supervises the field crews responsible for the restoration of feeders within a given area.
- 2. Instructs Crew Leaders that upon their arrival at an assignment, they must coordinate with Fire, Law Enforcement, and/or the Substation Group Leader for a situational briefing prior to initiating any work.
- Receives restoration assignments through the Outage Coordinator from the Substation Group Leader.
- 4. Notifies the Outage Coordinator of the completion of the restoration.
- 5. Notifies the Outage Coordinator when temporary repairs are needed, the nature of these repairs, and their locations.

#### FORESTRY SUPERVISOR

- 1. Supervises the tree crews responsible for clearing tree conditions on feeders within a given area
- 2. Coordinates with the Line Supervisor and Outage Coordinator to assist line crews in the restoration of feeders within a given area.
- 3. Receives restoration assignments from the Outage Coordinator and notifies the Outage Coordinator and Line Supervisor upon the clearing of tree conditions.
- 4. Reviews staffing assignments on a daily basis with the Substation Group Leader and with the Forester at the Regional Storm Room. As crews complete tree work ahead of restoration on a feeder or substation, coordinates their reassignment to the next priority area.
- 5. Coordinates and supervises the cleanup of tree conditions after the total storm restoration has been completed. This work will be kept to a minimum until all major tree work has been completed and will include the removal of damaged, broken, or hanging limbs and trees over or on the conductors following the storm.

#### DAMAGE APPRAISAL PATROLLER

- 1. Makes the appropriate surveys.
- 2. Reports the survey results to the Regional Engineering/Planning Officer (Damage Appraisal), but works directly for the field Supervisor.
- 3. After surveys are complete, performs additional duties for the Incident Commander as specified. These duties would include acting as a Runner to deliver information from the Substation Group Leader to the field Supervisor.

#### RUNNER/GUIDE

1. Escorts the foreign field forces to the job sites.

2. Assists the foreign field forces at the job sites with all logistical matters (locating streets, fuel, restaurants, etc.).

#### ADDITIONAL ELEMENTS

The following additional elements of decentralization may be warranted:

With widespread damage within one or more Regions, the existing storm management team may be supplemented. Personnel from non-affected Regions should be called upon to assist within a Region.

Additionally, for such a severe condition, consideration should be given to the utilization of Managers from other departments to assist in coordinating the overall Logistics, Electricity Operations, as well as public information activities within the Region.

The Regional Incident Commander will assist in the determination of the need for the above decentralized management team. In general, decentralization of not only the above, but also damage assessment, lodging, planning, etc. will generally be required to the same degree as the previously described storm management decentralization.

A complete listing of the decentralized command structure with contact numbers will be disseminated by the Planning/Resource Officer as quickly as possible throughout the entire storm organization.

Daily scheduled progress meetings and restoration planning sessions should be utilized by the decentralized management team. These sessions should include representation from all disciplines involved, i.e. Procurement, Safety, etc.

A storm of this magnitude will also require a specifically designated Regional Communications Coordinator to coordinate communications, strategies with customers, governmental authorities, and the media as well as Liberty Utilities leadership and employees.

A designated Logistics Officer for large scale material requirements and emergency generators should be assigned at the earliest possible stages of a major catastrophic event. The individual should also act as a liaison between Liberty Utilities and the federal and state agencies providing generator assistance.

#### STAGGERED CREW SCHEDULING

For Operating Condition Types 1, 2, 3 and possibly 4, organization on a daily basis is essential.

#### **GENERAL**

When working with many crews out of one decentralized location, the crews must be staggered into groups to avoid confusion and delays. When everyone tries to eat or fuel vehicles at the same time, the delays can become lengthy. The most productive work is performed during daylight hours. The groups should have a staggered working schedule. One possibility is outlined below.

#### **WORK SCHEDULE**

Crews should be divided into 2 groups, working mostly daylight hours. The majority of crews should rest at night. Work should continue at a reduced schedule at night. The night supervision reviews the day's progress, assesses the current situation, makes arrangements for materials, and assigns the next day's work locations. As the day supervision arrives, they can discuss the day's work with the night supervision. The night supervision will immediately assign the day crews their work, avoiding lengthy delays. The day supervision will then coordinate and control the daily activities. When night falls, the 2 supervision groups discuss the progress, and the cycle continues.

Start times may be changed depending on the time of year to take advantage of maximum daylight hours.

#### **APPENDIX L**

#### **MUTUAL ASSISTANCE**

#### **GENERAL**

The Planning/Resource Officer with assistance from the Logistics Officer is responsible for obtaining additional resources internally as well as from contractors, and other Utilities. These resource requests will be made by the System or Regional Incident Commander, or designee.

Acquisition and allocation of resources begins in the Pre-Event Stage of an event and continues through the Service Restoration Stage. Throughout this time, the System or Regional Incident Commander, in concert with the Planning/Resource Officer, is responsible to develop the restoration strategy and its associated resource requirements. Due to every event's unique nature, subjective analysis as well as experience during similar events and knowledge of historical impacts that have occurred elsewhere in the country is required to estimate resources, material and equipment requirements based on weather or other known hazard conditions.

For forecasted wide-scale events, the Company utilizes a pre-event checklist, and a series of conference calls, to align and mobilize the organization into action. This alignment typically includes pre-positioning of resources which may come from an internal or external source. Part of Liberty Utilities' strategy is to acquire sufficient resources as part of the preparation phase. To ensure that this occurs, the Company has a portfolio of external resource options.

Throughout an event, as field conditions change and information about field conditions evolves, resources (internal, contractor, and mutual assistance) may be redeployed by the System or Regional Incident Commanders.

#### **PROCEDURE**

The System or Regional Incident Commander is responsible for performing a situational assessment and determining resource needs during the Pre-Event Stage as well as throughout the event. The specific conditions predicted, existing or impending will be identified including the following:

- 1. Nature of cause of emergency wind, lightning, etc.
- 2. Geographical location of emergency
- 3. Number of cases of trouble by location
- 4. Number of customers affected
- 5. Number of circuit lockouts by circuit designation
- 6. Number of crews in the field by location

Subsequently, the emergency will be classified into one of the five Event Types, and when required, assistance procedures will be implemented in accordance with the following:

#### **Event Type 5**

This classification of emergency usually does not require assistance from outside a Region. Local personnel and Utility Contactors are sufficient for this level.

#### **Event Type 4**

This classification of emergency may require assistance from outside a Region. The Electric Operations Director, Regional Incident Commander and/or his/her designee will arrange for the required assisting personnel from other Regions. If additional resources from outside the Region are required, the person in charge will arrange for the required resources.

The information required can be found in Exhibit A. The Supervisor of the supporting crews, upon arrival in the requesting Region(s), will perform the duties as outlined in Exhibit C. The crew transfer sheet in Exhibit B will be used to record crew movement.

When assisting personnel from organizations other than Electricity Operations are required, it will be the responsibility of the person in charge to make arrangements for the required personnel.

#### **Event Type 3**

This classification of emergency usually requires assistance from other Regions and external resources. The Electric Operations Director, System or Regional Incident Commander and/or his/her designee will arrange for the required assisting personnel. If additional external resources are required, the Planning/Resource Officer will arrange for the required resources. The information required can be found in Exhibit A. The Supervisor of the supporting crews, upon arrival in the requesting Region(s), will perform the duties as outlined in Exhibit C. The crew transfer sheet in Exhibit B will be used to record crew movement.

When assisting personnel from organizations other than Electricity Operations are required, it will be the responsibility of the Planning/Resource Officer to make arrangements for the required personnel.

#### **Event Type 2**

This classification of emergency usually requires assistance from other Regions and external resources. The System or Regional Incident Commander and/or his/her designee will arrange for the required assisting personnel. When additional external resources are required, the Planning/Resource Officer with assistance from the Logistics Officer will arrange for the required resources. The information required can be found in Exhibit A. The Supervisor of the supporting crews, upon arrival in the requesting Region(s), will perform the duties as outlined in Exhibit C. The crew transfer sheet in Exhibit B will be used to record crew movement.

When assisting personnel from organizations other than Electricity Operations are required, it will be the responsibility of the Planning/Resource Officer to make arrangements for the required personnel.

#### **Event Type 1**

This classification of emergency will require assistance from external resources.

#### NORTH ATLANTIC MUTUAL ASSISTANCE GROUP (NAMAG)

The Company is a member of the North Atlantic Mutual Assistance Group (NAMAG) and has mutual assistance agreements with many contractors. See the CQ&EM site for the current NAMAG Guidelines dated June 27, 2014. NAMAG maintains a Mutual Assistance Roster of major electric utilities in the United States. This information includes the names, addresses, and telephone numbers of personnel to contact in each company.

The System or Regional Incident Commander and/or his/her designee will arrange for the required assisting personnel. When additional external resources are required, the Planning/Resource Officer with assistance from the Logistics Officer will arrange for the required resources. The information required can be found in Exhibit A. The Supervisor of the supporting crews, upon arrival in the requesting Region(s), will perform the duties as outlined in Exhibit C. The crew transfer sheet in Exhibit B will be used to record crew movement.

When Mutual Assistance is required, the Planning/Resource Officer with assistance from the Logistics Officer is responsible to secure and mobilize additional resources from the following resource pools:

- Utility and Non-Utility Contractors (currently working for Liberty Utilities)
- North Atlantic Mutual Assistance Group (NAMAG)

The Company maintains contact information for a portfolio of contractors. Contractor Support will be requested at the direction of the System Incident Commander or designee. The Planning/Resource Officer will report back to the System Incident Commander with contractor responses and provide the appropriate crew rosters upon notification. The System and Regional Incident Commanders will determine the assignment locations with information provided by the Planning/Resource Officer with assistance from the Logistics Officer along with contact names and phone numbers to which to direct the contract personnel. The Planning/Resource Officer with assistance from the Logistics Officer will provide the appropriate information to the responding contractor company. Upon arrival, contractor resources are on-boarded and directed by the appropriate leadership and Safety Officer.

The Incident Commander and the Manager of Emergency Management will participate in NAMAG storm calls. The purposes of the calls are to identify resource needs and procure the required resources for the event. The Planning/Resource Officer with assistance from the Logistics Officer will contact utilities and contractors for mutual assistance as requested by the System Incident Commander.

The procedure is the same for any Event Type that requires external resources. The assisting parties will exchange information and perform the duties as outlined in Exhibits A and C of this section

#### SERVICE CREWS

During major storms, when there may be many services down, service crews may be formed at the request of the Incident Commander to supplement existing line resources to restore single phase secondary services.

#### **Crew Makeup**

Crews may originate from any job classification that is qualified to work on and near exposed energized electrical equipment and has been issued and trained in the proper use of Class 0 rubber gloves at a minimum. When service crews are formed, the normal complement should be a two-person crew. As service crews are formed, all efforts will be made to provide qualified supervision to oversee service crew work in the field.

#### Scope of Work

All service restoration activities will be limited to repair on single phase secondary service drops only. All such repairs from the pole to the customer's meter channel should be treated as energized at all times. No connects will be allowed on the pole end if the pole is equipped with primary equipment, such as transformers, regulators, capacitors, etc. Mid-span connections will be limited to bucket truck applications only, provided adequate clearances can be maintained from the primary conductor.

#### **Crew Dispatch**

A separate dispatch operation should be established to handle all service restoration activities which would allow the Region to concentrate feeder restoration. This dispatch operation will report all activities to the Regional Storm Room. After service crews are dispatched, they should contact the Supervisor in charge of the feeder to which they are assigned to coordinate work activities.

#### Training

All personnel involved with the repair/replacement of services during storm restoration will have completed Storm Restoration Training for Non-Line Personnel.

#### WIRES DOWN APPRAISAL AND STANDBY

During a storm event it may be necessary to send qualified individuals to reported line trouble locations and verify if the trouble is in fact Company equipment.

#### Scope of Work

Trouble assessors will determine if the trouble presents a hazard to the public. If it does they will attempt to make the area safe. The experience and training of the individuals will vary upon those responding. If electrically qualified and properly equipped to make the field conditions safe, the assessor should do so. If the time element to do so will detrimentally impact the assessment completion time, the responder will notify survey supervision and request direction. If a hazardous condition still exists, then an individual will be dispatched to standby and guard the hazardous conditions until repairs can be made. Conditions reported by trouble assessors will be compiled and forwarded to the Regional Storm Room.

#### **Crew Makeup**

Ordinarily, Regional personnel fulfill the role of Wires Down Standby. However, during major emergencies others may be utilized such as personnel from Underground, Substation, Customer Meter Services, Gas Construction, Design and Engineering.

#### **Crew Dispatch**

During major emergencies, a separate Wires Down Center may be established to handle all downed wire guarding activities. This Center, however, will report the location, status, etc. of downed wire locations to the Regional Storm Room.

## **Training**

Personnel working with energized conductors in making the area safe or completing service restoration will have received proper electrical training prior to the event. Those not trained and qualified SHALL NOT work with energized equipment or attempt to do any work outside of their qualifications and training.

#### SUPPORT PERSONNEL

Support personnel may be in the form of other Liberty Utilities Operations and Non-Operations personnel and retirees. All orders to mobilize these personnel will be communicated to the Planning/Resource Officer or Incident Commander. Support personnel may be utilized as runners/guides to assist foreign field forces in locating job sites and other logistical matters such as locating fuel and restaurants. Individuals utilized as runners/guides should have a local knowledge of streets, restaurants, supply points and fuel points.

When such orders are issued, the applicable information included in Exhibit A of this section will be provided.

When assembled, the applicable information included in Exhibit B of this section will be provided to the Incident Commander for forwarding onto the Region requesting assistance.

#### **TRANSPORTATION**

The mode of transportation for personnel and vehicles depends primarily on two factors, distance and weather.

As a guideline, when distances of 100 miles or greater are involved, the vehicles should be dispatched separately from the personnel. Drivers are to be provided for the vehicles and the personnel are to be transported by bus, train, or plane as the conditions dictate at the time.

# CANADIAN/UNITED STATES BORDER CROSSING GUIDANCE

To facilitate the processing of mutual aid crews to and from Canada into New England, the Canadian/United States Border Crossing Guidance document located on the EEI RestorePower web site at eei-restorepower.groupsite.com/main/summary should be followed.

This guidance document will satisfy the requirements of both the Immigration and Naturalization Crews Service (INS) and Customs. A list of the Canadian/United States Border Crossing locations is in Exhibit D. The Incident Commander or Emergency Management is responsible for implementing these procedures.

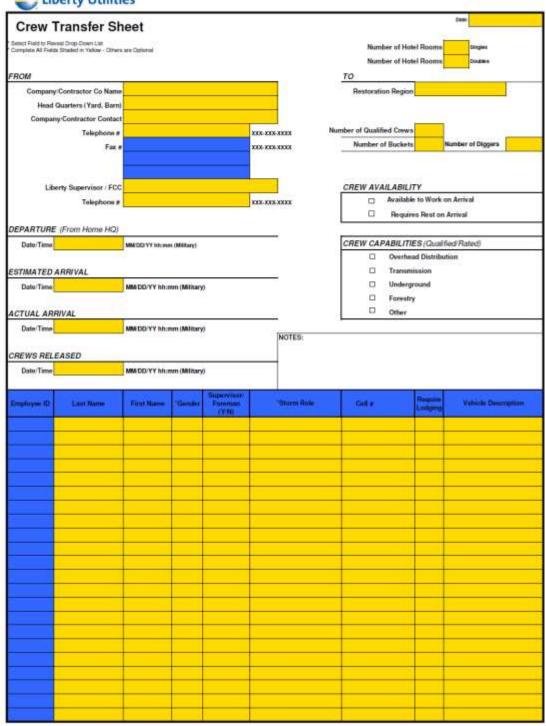
#### **EXHIBIT A**

# Information Supplied by Party Seeking Assistance

- 1. Number and type of personnel required; i.e. line crews, tree crews, sorters, mappers, servicemen, mechanics, communication testers, etc.
- 2. Geographical location to have personnel to report to and telephone number of the Branch Supervisor responsible for restoration at that location.
- 3. When the personnel are required.
- 4. Estimated duration of the emergency.
- 5. Equipment needed: \*
  - A. Line trucks (buckets, diggers, etc.)
  - B. Passenger cars
  - C. Other vehicles and equipment necessary for weather condition
  - D. Radio base station
  - \* Utilities supplying Liberty Utilities with crew complements greater than 30 crews may be requested to bring a rack body boom truck for materials if the event is of such duration and size that support for distribution of materials is requested by the Warehouse Materials Coordinator.
- 6. Materials needed.
- 7. Suggested highway routes to travel.
- 8. Other pertinent information such as local weather conditions.

# **EXHIBIT B**





# **EXHIBIT C Procedure for Supervisors Assisting Other Parties**

- 1. Call the Supervisor responsible for restoration upon arrival at the point of the emergency work assignment.
- 2. Verify information as to where the crews will be met and where they will report for work.
- Verify that PCard has increased limit with expanded purchase authorization and cash withdraw capability.
- 4. Obtain information on crew lodging and meals.
- 5. Check the restaurant hours for proper accommodations, especially breakfast.
- 6. Establish the daily work schedule.
- 7. Arrange for the assignment and storing of vehicles.
- 8. Arrange for the assignment of a guide who knows the local area and who is qualified to request switching and obtain mark-ups on lines and equipment.
- 9. Request general information for your crews.
- 10. Request Transmission and Distribution system descriptions and instructions for your crews.
- 11. Request maps of the Distribution circuits.
- 12. Request important telephone numbers such as for the work headquarters, Branch Operator's office, police, and doctor.
- 13. Maintain a daily log of activities from the time of departure.
- 14. Turn in all outstanding unpaid bills.
- 15. Return expense money.
- 16. Arrange for the return home in a reasonable and prompt manner.
- 17. Report to the local Supervisor responsible for restoration.
- 18. Submit required reports.

EXHIBIT D
US Customs and Border Protection – Border Crossing Ports of Entry

PORTS	FACILITIES & CROSSING	PHONE NO.	FAX NO.
24 HOUR CONTACT NUMBER FOR CHAMPLAIN/TROUT RIVER LOCATIONS 518-29			
CHAMPLAIN, NY	Main Office	518-298-8346*	518-298-8395
		518-298-7212	
	Cannons Corners	518-236-5312	518-236-4961
	Mooers	518-236-7113	518-236-4008
	Overton Corners (Route 276)	518-298-3182	518-298-4944
	Rouse's Point	518-297-2441	518-297-3632
TROUT RIVER, NY	Main Office	518-483-0821*	518-483-3717
	Chateaugay	518-497-6633	518-497-6639
	Churubusco	518-497-6491	518-497-0028
	Fort Covington	518-358-2444	518-358-9290
	Jamison's Line	518-483-1009	518-483-6433
MONTREAL, ONT Wednesdays Only 10a.m. – 1:30 pm	Main Office	514-631-2097	514-631-5126
BUFFALO, NY	Port Office in Downtown Buffalo	716-843-8339	716-843-8523
	Buffalo/Niagara Falls International Airport	716-632-4727*	716-632-6275
	Lewiston Bridge	716-282-1500	
	Rainbow Bridge	716-284-5174*	716-282-4671
	Whirlpool Bridge	716-278- 0200/0918*	716-292-5953
	Peace Bridge	716-885-3414* 716-885-3367* 716-881-5225	716-885-3521
41 = 2/41   5   4	14 . 000	0.15.400	
ALEXANDRIA BAY, NY	Main Office	315-482- 2472/2261/2472* Ext. 264/290/293	
	Cape Vincent	315-482-2681* 315-654-2781	315-482-5422 315-654-3382
	Massena	315-769-3091*	315-769-3146
	Ogdensburg	315-393-0770* 315-393-1390*	315-393-2099
HOULTEN, ME	Main Office	207-532-2131	207- 532-6622
	Forest City	207-448-2288	201-332-0022
	Monticello	207-538-9475	
	Orient	207-448-2427	
	Olient	201-440-2421	
NORTON, VT	Main Office	802-822-5233	802-822-5512
	Pittsburg, NH	819-656-2261	302 022 0012
	i madury, mi i	013-030-2201	

<sup>\*</sup>Point of Entry number staffed 24/7

#### **APPENDIX M**

# EMPLOYEES, CONTRACTORS AND FOREIGN CREWS WELFARE

#### **GENERAL**

All employees should get at least 6 to 8 hours off in every 24 hour period. It is desirable to work during daylight hours to maximize efficiency and safety. It is also important to provide ample staffing at night that should include One Person Crew coverage to respond to 911 and large outage calls, pole setting in preparation of crews coming off rest, and large outages where the work area damage is known and can be worked efficiently and safely while meeting crew rest concerns.

Foreign crews and supervisory personnel:

- 1. Procurement may be issued for each Supervisor or other person charged with cash management responsibilities
- County road map and circuit diagrams will be issued for each Supervisor and crew
- 3. Every effort must be made to provide quality lodging and meals. At least 2 hot meals will be provided daily. It may be desirable to house groups of workers away from the work area and transport them by bus if proper facilities are not available locally.
- 4. Crews traveling to another Region or utility for an undetermined amount of time will be instructed to have a minimum of 7 days' supply of clothing and personal items.
- 5. Crews traveling to another Region should eat, if necessary, prior to their arrival at the storm area.
- 6. The following are Liberty Utilities policies that must be adhered to by employees, hired contractors, or foreign crews:
  - a. There will be no consumption of alcoholic beverages during regular working hours, overtime, emergency, or at meals.
  - b. Meals will be obtained at a reasonable price.
  - c. The unlawful use, possession, sale, or purchase of "controlled substances" is prohibited.
  - d. No person will enter Liberty Utilities property while in possession of a firearm of any description, loaded or unloaded.
  - e. Room accommodations will be treated respectfully and in accordance with "House Rules."
  - f. Liberty Utilities will not pay for hotel charges for room service, movie charges, etc. One call (to the home number) of a reasonable duration is allowed.
  - g. Personnel who are sick, injured, or otherwise unable to report to work will inform their immediate Supervisor who, when applicable, will report this to their assigned Liberty Utilities representative.
- 7. The Code Blue Emergency System is designed to allow workers in the field the ability to broadcast an emergency condition and request assistance in obtaining ambulance, rescue, or police service to the scene.

# **REFERENCES**

See the Liberty Utilities Storm Restoration Guidebook dated December 1, 2014.

This is a general safety & health guide for foreign utility crews and contractors responding to an emergency at Liberty Utilities. The Guidebook is on the CQ&EM site.

See the Code Blue Emergency Activation Procedure dated December 18, 2014.

#### **APPENDIX N**

# **COMMUNICATIONS**

#### **PURPOSE**

The Public Information Officer or designee will be responsible for implementing items within this section of the plan and unity of message will be one of their primary responsibilities.

### 1. Customer Communications

# A. Customer Call Response

The Liberty Utilities Customer Service Center has the ability to reallocate available telephone lines, allowing for greater customer access during major outages. The Service Center is also equipped with IVR (automated answering system) that is used to handle storm outage calls received. The automated system is designed to reroute customers who have indicated that they have an emergency situation, back into the Service Center queue.

During the Pre-event stage, the Manager of the Customer Service Center, or his/her designee, based on the most recent weather forecast and historical experience, makes resource staffing level decisions, establishes schedules to adequately handle the increased customer call volume, and coordinates additional resources to meet those requirements.

# B. Customer Messaging

## 1. Broadcast Messaging

Liberty Utilities has the ability to broadcast outage communication to customers to verify if their power has been restored during a large scale outage event. The process is a fast, low cost way of determining if services are damaged on the distribution circuits that have been identified as restored in the Responder outage management system. The decision to activate the messaging will be made by the Incident Commander or designee.

# 2. IVR / Public Service Announcements

The Customer Service Center will create appropriate informational messages on the Customer Service Center's IVRs (Inter-voice Response Units) if warranted, notifying customers of potential service interruptions due to an emergency event. The Customer Service Center will also update the IVRs with information regarding restoration times for the affected area, safety information, and Public Service Announcements, to ensure that a unified message is provided to customers.

## 3. Estimated Time of Restoration (ETR)

ETR messaging will be managed by the Dispatch & Control Center and/or activated Storm Center(s) at the direction of the Incident Commander or designee. ETRs noted in the Customer Service System will reflect edited ETR information within the Outage Management System. ETRs noted in the online outage map will also reflect information within the Outage Management System unless disabled, in which case "TBD" will be noted until field information becomes available. ETRs should be populated with the most updated information provided by Field Operations. ETRs will be managed by Dispatch Area, Crew Area, or Device.

# C. Life Support Customers

The Customer Service Center is responsible for maintaining a database of Life Support Customers. Life Support Customers are added to the database upon successful completion by the customer of enrollment criteria. The Life Support Customer list is reviewed annually.

The Customer Service Center will attempt to communicate with Life Support Customers likely to be impacted by an emergency event before the event. The Customer Service Center will attempt to contact those live support customers whose service has been interrupted during the event and after restoration of service.

The Customer Service Center will:

- Identify Life Support Customers that are impacted by the emergency utilizing the Power On Life Support Monitoring Tool.
- 2. Attempt to contact identified Life Support Customers to inform them of the scope of the interruption and the restoration forecast. If a customer cannot be reached, attempt make contact at third party number if information is available (always leave a message on the answering machine).

Note: Customer Service Center Representatives are to cover the following "Key Points" when contacting Life Support Customers.

- A. Identify yourself as calling from Liberty Utilities.
- B. If leaving a message on an answering machine, indicate the date and time of your call.
- C. Provide information concerning potential service interruptions due to emergency event or provide actual outage and restoration as available.
- D. Advise that if the customer feels they are in a life threatening situation, to call police, fire, or 911.

## 2. Municipal Communications

# A. Advanced Planning and Training

Government and Community Relations and Customer Care Staff will work closely with Emergency Management in conducting at least one annual meeting with:

- Appropriate local elected and appointed officials of each of the cities and towns in which it
  provides service to ensure the effective and efficient flow of information between the
  Company and local elected and appointed officials during an emergency event; and
- 2) State and local public safety officials of each of the cities and towns in which it provides service to ensure the effective and efficient coordination between the Company and local public safety officials during an emergency event and to review Company policies and procedures that will identify the service locations of its Life Support Customers and refer all requests by Life Support Customers and other special needs customers to public safety officials for response.

Vegetation Management will meet with Tree wardens or appropriate officials of each of the cities and towns in which it provides service, to ensure the effective and efficient coordination between the Company and the city or town regarding the Company's annual vegetation management practices and the Company's response during an emergency event.

In addition, Government and Community Relations and Customer Care will submit to Emergency Management a report from the Government/Public Safety Official Meeting that includes the following information:

- (1) invitees and their job titles
- (2) attendees and their job titles
- (3) the agenda
- (4) all presentation materials
- (5) minutes
- (6) action items that result from the meeting
- (7) status of each identified action item.

## B. Government/Public Safety Official Communication

Government and Community Relations and Customer Care will be responsible for maintaining a contact database for emergency events, which will consist of municipal emergency managers along with state and other local public safety officials and/or their designees and critical care facilities (hospitals). This contact information will include titles, addresses, phone numbers, and other pertinent data as appropriate.

Government and Community Relations and Customer Care will be the custodians of this information.

For any Event Type that requires it, the Planning/Resource Officer or designee will be responsible for distributing reports to the Municipal Room lead. The Municipal Room lead or designee will establish communications with other local public safety officials and/or their designees. These reports will include both pre-event stage and service restoration stage reports.

### **Dedicated Line**

A dedicated telephone number(s) may be established for responding to local governmental authority inquiries during any Event Type which may require it or at the request of the Incident Commander. This responsibility will be assigned to Government and Community Relations and Customer Care and will generally coincide with the activation of the EOC and/or the Company's Wires Down program. The telephone number will only be provided to authorized municipal officials, for their official use only, prior to activation of the dedicated line. If a municipality is concerned over the loss of electrical service to facilities that provide vital services to the public, e.g. nursing homes, key municipal facilities, sewage treatment plants, etc., they should communicate this concern to the Company via this dedicated line. If this dedicated line has not been activated, the municipality should make contact with the Company via their normal communication channels.

## C. Municipal Liaison

The Customer Care Team is established to develop relationships between the Company and municipal officials to better respond to the community needs during a restoration effort. During more severe storms and extended restoration efforts, some or all municipalities affected may be assigned a Municipal Room Liaison, as resources permit. When directed Municipal Room Liaisons will report to their assigned area and will provide personal assistance in the prioritization of work to ensure public safety and to facilitate the restoration of electric service to the assigned community. The Company has experienced over time that providing a liaison to municipalities severely affected by emergency events not only supports the local area affected, but also aids in prioritizing the restoration of electric facilities and may improve access to Company facilities by obtaining municipal support.

# D. Municipal Conference Call

During an Event Type 1, 2 and 3 storms, where restoration is not expected to be completed within 48 hours, or at the request of the Incident Commander, a Municipal Conference Call will be utilized daily until the completion of the restoration effort. Additionally, in extraordinary events such as load shed scenarios where information on restoration needs to be communicated to community leaders, the Municipal Conference Call will be utilized. Government and Community Relations and/or Customer Care will be responsible for coordinating the call and notifying the applicable community leaders of the conference call number and time that the conference call will take place. All information to be shared during the conference call will be reviewed with the Incident Commander prior to the call in order to be shared with respective state regulatory staffs as necessary. In the event that phone lines are incapacitated, the requirement to conduct this call is waived. Community leaders will acquire information through the state emergency management as is normal operating procedure under the Incident Command System.

#### 3. Media Relations

## A. Media Relations Liaison to EOC

During an Event Type 1, 2 or 3 storms or by determination of the Incident Commander, a Media Relations Representative will be assigned to communicate directly with the EOC and be assigned a location within the EOC. This representative will maintain contact with the Public Information Officer and others in the Company as required.

# **B. Media Relations Response Team**

Whenever an electric emergency is classified as Event Type 1, 2, 3, or possibly 4, an emergency Media Relations Response team will be placed on standby for possible deployment to the impacted area.

#### C. Media Access

News media representatives may be permitted access to facilities in times of emergency when accompanied by appropriate management personnel. Predesignated areas within the limits of safety and security will be selected.

#### D. Public Service Announcements/Advertising

As conditions warrant, the Public Information Officer, at the request of the Incident Commander, will place advertising with print and/or broadcast outlets to convey safety, storm restoration, or other emergency event information.

## 4. Internal Communications

# A. Employee Messaging

Employees will be kept informed during an emergency event by the Liberty Utilities E- mail system and broadcast telephone messages. Employee Communications will be responsible for implementing the messages when directed by the Incident Commander.

## **APPENDIX O**

## **PUBLIC SAFETY**

### **GENERAL**

Public Safety during an event is the Company's number one concern. The elimination of hazards to the public takes precedence during emergencies. During a storm event it may be necessary to send qualified individuals to reported line trouble locations and verify if trouble is in fact related to Liberty Utilities equipment.

Under normal operating conditions the Dispatch & Control Center has responsibility for dispatching resources to all trouble locations, regardless of whether they are reported by a municipality or the general public.

When Liberty Utilities decentralizes from the Dispatch & Control Center, the Regional storm room dispatches resources to trouble locations. During major storm events, the System or Regional Incident Commander may determine, due to the amount of down wire calls, to implement plans to activate the Wires Down room to support the storm room. The wire down room assists the storm room by managing the additional support resources engaged in wire down appraisal and standby functions. In these situations the wires down room under the direction of the storm room lead will assume responsibility for prioritizing and dispatching trouble orders with a wire down condition and assessing or rectifying conditions found in the field.

When widespread interruptions and damage occur, the Company utilizes restoration crews and other trained individuals to respond to reports of down wires reported by both police & fire officials as well as general customers in order to preserve public safety. The purpose of the wire down organization is to supplement the resources dispatched by the storm room in order to relieve Police and Fire apparatus standing by Company assets and to make wires sown situations safe.

#### WIRES DOWN CONDITIONS

The initial trouble call to report the wire condition is received in the following ways:

Priority 1 – "Life Threatening" Police / Fire Emergency Lines in Dispatch & Control Center (1-877-247-3603).

Priority 2 & 3 – Hindering Emergency Operation - Police / Fire Emergency Lines in Customer Service Center (1-877-598-6326).

All other customer calls - general customer service number

# WIRES DOWN REPORTED BY GENERAL PUBLIC

Wires down reported by the general public are dispatched to a restoration crew. In the event a restoration crew is not available, individuals that are trained in the wires down process are sent to the reported locations to appraise the situation. If the reported wire down is an electric wire, they will either "make safe" the area by performing a cut and clear activity or they will "stand by" until a crew can be dispatched to repair the outage and pick up the wire condition reported.

### PRIORITY WIRES DOWN REPORTED BY FIRST RESPONDERS

The definitions established for Police & Fire Priority 1, 2 and 3 trouble calls where municipal officials are en-route to an emergency or on-site at a location of concern are as follows:

- 1) Priority 1 Emergencies are life threatening. The Company responds to Priority 1 calls as soon as possible with the nearest trained resource. These calls are taken in the Dispatch and Control Center. Examples include:
  - a. A person is trapped in a vehicle that has struck a utility pole and the pole or equipment is prohibiting emergency personnel from approaching the vehicle.
  - b. A person is trapped in a burning building and emergency personnel need electrical service disconnected before they can enter the building.
  - c. A member of the public has come in contact with electrical wires or equipment (e.g., sever electrical shock or electrocution) and the location needs to be made safe before rescue can start.

In the event that a municipality incorrectly classifies a standby call as Priority 1, the Company will reclassify the call and notify the municipality of the correct classification.

- 2) **Priority 2** emergencies are those that hinder emergency operations. The Company will respond to Priority 2 emergencies with the next available trained resource. These calls are taken in the Customer Service Center and dispatched via the Outage Management System. Examples include:
  - a. Wires and / or equipment blocking a roadway.
  - Electrical service needing to be disconnected before a structure fire can be extinguished.
  - c. Electrical service needing to be disconnected so that emergency personnel can enter a flooded home or area of town.
- 3) **Priority 3** emergencies are non-threatening emergency hazards. The Company will respond to Priority 3 calls with a capable resource. These calls are taken in the Customer Service Center and dispatched via the Outage Management System. Examples include:
  - a. Wires and / or equipment down along a sidewalk or commonly traveled way.
  - b. Tree limb arcing on wires.
  - c. Pad-mount transformer pushed off of its pad and wires exposed.
  - d. Utility pole struck by motor vehicle and personnel on scene unsure of pole's integrity.

# DESCRIPTION OF PRIORITY WIRES DOWN PROCESS

The Company has committed to provide Estimated Time of Arrival (ETA) information on all Police and Fire calls where a stand-by condition is indicated. The Company will provide an Estimated Time of Arrival for all Priority 1 calls within thirty minutes and for Priority 2 and 3 calls as soon as possible.

Under normal operating conditions the Dispatch & Control Center has responsibility for dispatching resources to all trouble locations, as well as estimating and disseminating Estimated Time of Arrival for Priority 1 through 3 ETAs based on consultation with field personnel regarding factors which may include known travel conditions and resource availability.

During wide-scale events, Regional storm rooms take over the responsibility from the Dispatch & Control Center for dispatching resources in Liberty Utilities' operating areas.

The Municipal Room Coordinator obtains the ETA for Priority 1 through 3 calls from the storm room or directly from the Outage Management System and communicates the ETA to the requesting police or

fire department via phone call. If there is a significant change to the ETA subsequent to the initial ETA communication the Municipal Room Coordinator will call the municipality to communication the revised ETA.

In addition to the ETA information (Time of ETA call back and ETA provided) the following information is also captured to provide the necessary information for post storm reporting on the Police / Fire trouble calls with a stand-by condition noted:

- a. Date & Time of call
- b. Location of trouble
- c. Nature of the call
- d. Priority
- e. Time crew assigned
- f. Time crew arrived
- g. Time made safe / repaired

During storm events the Municipal Room Coordinator will capture this information for Priority 1 calls and will attempt to capture as much of this information as possible for Priority 2 and 3 calls.

### **APPENDIX P**

# **SAFETY & HEALTH COORDINATION**

#### **GENERAL**

The Safety and Health Officer is responsible for the implementation of items within this section of the plan.

# **MOBILIZATION CRITERIA**

Whenever the Electric Emergency Management Plan is activated, the appropriate Safety and Health personnel will be notified and mobilized in accordance with the classification of the emergency. The Incident Commander and the Manager of Safety and Health will, if appropriate, determine the scope of the emergency and will immediately assign Safety and Health personnel to work in locations affected by the emergency.

# SAFETY SUPPORT BY OPERATING CONDITIONLEVELS

# **Operating Condition Type 5**

Safety will monitor work activities on a local basis and respond accordingly.

## **Operating Condition Type 4 & 3**

- The Incident Commander will contact the Manger of Safety and Health for assistance within EHS&S from which manpower will be used to help with restoration efforts.
- Safety will work with local supervision regarding the restoration effort and will conduct field observations/audits, incident analyses, and training as needed.
- Safety will act as a liaison between Supervisors and outside utilities concerning any Safety-related activity or situation.

## **Operating Condition Type 2 & 1**

- The System or Regional Incident Commander will contact the Manger of Safety and Health for assistance within EHS&S and possible through mutual assistance from which manpower will be used to help with restoration efforts.
- Safety will work with local supervision regarding the restoration effort and will conduct field observations/audits, incident analyses, and training as needed.
- The Manager of Safety and Health will arrange to provide dedicated Safety and Health staff for designated and specified work locations. This dedicated staff will be available for field sites and other staging locations as needed.
- Safety will act as a liaison between Supervisors and outside utilities concerning any Safety-related activity or situation.

# **RESPONSIBILITIES**

## **Manager Safety**

- Assign a Safety Representative to the restoration area based on the classification and location of the emergency situation.
- Establish a Command Center in which appropriate Safety and Health staff will be assigned and to which other staff members can report.
- Coordinate the scheduling and duty assignments of Safety and Health staff.
- Ensure that various Safety reports (i.e. near misses/incidents) are effectively communicated to field employees throughout the storm zone.
- Coordinate incident analyses, field audits, training, and regulatory inquiries.
- Conduct a critique of Safety response efforts to identify lessons learned.

## Safety Representative

- Support local supervision regarding the restoration effort as needed.
- Act as a liaison between Supervisors and outside utilities concerning any Safety-related

- activities or incidents.
- Manage, receive, and communicate Safety reports (i.e. near misses/incidents) to field employees throughout the storm zone.
- Facilitate incident analyses and field audits.
- Develop and deliver specific Safety and Health regulatory training to employees and keep an assignment of their work (i.e. service restoration, fall protection, traffic control, and tagging) if they have not received it previously.

### **APPENDIX Q**

# **FLEET MANAGEMENT**

#### **GENERAL**

The Logistics Officer will be responsible for implementing items within this section of the plan.

The designated Fleet Services representative will oversee and coordinate Fleet Services activities.

The Electric Operations Supervisor in charge will be responsible for ensuring that crew vehicles are pre-operationally (49 CFR Pre-Trip) checked, including fuel, oil and water levels. The respective Regions(s) will notify local Fleet supervision before sending vehicles.

Fleet Supervision will provide consultation to Electric Operations to ensure that the age, type, and condition of the vehicles and equipment being sent is appropriate for the length and duration of the trip.

Procurement is responsible for furnishing:

- 1. Additional motor vehicle equipment as required
- 2. Appropriate gasoline credit cards and EZPass' for use by the Supervisor on the New Hampshire Highways, or making arrangements for fuel
- 3. Notification to state authorities, the Federal Highway Administration, and the appropriate Police Agencies.

Depending on the severity of the emergency, repair garages may have to be notified to operate on a 24-hour basis in the Region(s) involved in restoration. Repairs should be made while crews are on rest time whenever possible.

## **RENTAL OF EQUIPMENT**

When supplemental equipment is needed, The Logistics Officer or the Incident Commander will contact Procurement. They will then seek available equipment using the following order of precedence:

- a. Availability within the Company's fleet
- b. Obtaining equipment from other sources
- c. Availability and rates from other utilities

The goal of Procurement is to obtain the needed equipment when it is required at the lowest cost.

For Event Type 1, 2 or 3 the Incident Commander may establish a Storm Fleet Services Equipment Coordinator.

## **FUEL TAX PERMIT**

The North Atlantic Mutual Assistance Group has established a fuel tax permit procedure to be used when applying for a fuel and trip permit for those vehicles in excess of 18,000 pounds (lbs.) traveling outside of New Hampshire for either emergency storm damage or the delivery of materials. The procedure can be found on the EEI RestorePower website at eei-restorepower.groupsite.com.

A listing of the Equipment IDs for all vehicles over 18,000 lbs. must be maintained and include the following:

- The states for which the trip and fuel permits are required
- The effective date of the permit(s)
- The estimated return date
- The address of the location to which the paper copy of the permit should be sent
- The fax number to which the permit should be faxed

• The name, E-mail address, phone number, and fax number of the contact person in Operations to whom the permits should be sent. This person is responsible for distributing the permits to the crews/trucks.

In most states these permits are only good for 10 to 30 days. If the permit should expire before the vehicle leaves the state, another permit must be applied for.

Upon receipt of the fuel tax permit, the Electric Operations contact will distribute the permits to the appropriate vehicles. These permits must be kept with the unit.

#### **APPENDIX R**

# **ACCOUNTING**

#### **GENERAL**

The Regions, as well as other departments that assist during a storm emergency, should use the following guidelines to charge their costs to a storm or emergency event.

### **PROCESS**

- 1. Liberty Utilities will establish a specific Storm Project for use during storms or events. The Project will be created in accordance with the Liberty Utility project approval processes. The Project will have a budget approximately equal to the prior year's actual storm spending less any storm charges that are determined to be unusually large so as to distort the data trend. The Storm Project will be entered into Great Plains. Under the Storm Project a job will be created for each storm event during the year. Prior to incurring charges for a major storm, a separate Capital, Operations and Maintenance (O&M) and Vegetation Management job will be set up. For routine storms and weather events, a single O&M job will be set up.
  - A. When there is substation capital damage to Liberty-owned substations during a storm or emergency event, a separate job must be set up in the Great Plains under the storm project to capture costs for each substation that sustains capital damage. The location of the substation will be on the job. In Great Plains the job is held in CWIP, FERC account 107. When the job is determined by operations to be complete it is unitized into FERC account 101.
- 2. Both Liberty Utility employees and outside contractors working on storm duty will charge the storm job for their costs. The costs may include: labor, transportation, meals, lodging, and benefits'.
- 3. All materials issued during the storm should be charged to the job for the work being performed.
- 4. All invoices from external contractors providing tree trimming will be processed by Liberty with the appropriate job number.
- 5. All invoices from foreign utilities providing line crews and other resources will be processed according to Liberty Utilities procedures requiring operations to submit the appropriate job number, accounting cost codes and invoice approval. Liberty Accounts Payable will enter invoices into the accounting system and process the payment to the contractor.
- 6. At the conclusion of a storm, all information related to the job will be sent to Operations Engineering so an Engineer can create a confirming job for each town that had units of plant installed/removed. (Approved copies of the job should be forwarded to Accounting.)
- 7. Electric Operations will review the actual capital costs from the storm event.
- 8. If the storm requires the Emergency Operations Center to be activated, all personnel working either in the Emergency Operations Center or other support services will charge the storm job. Support services charged to the job will accumulate in the Great Plains accounting system. Liberty Accounting will report the storm costs from Great Plains using the job number.
- 9. In accordance with GSE's Storm Recovery Adjustment (SRA) provision in its tariff, a storm that causes 30 concurrent trouble calls and 15% of customers interrupted or 45 concurrent trouble calls is a major storm event. O&M costs due to major storm events are recoverable from customers no recovery for capital costs. Under the current Tariff all O&M costs due to a major storm event are recoverable from customers. Therefore labor hours charged to a storm work order are immediately recoverable from ratepayers. Once it is determined that storm costs are

recoverable in accordance with the GSE SRA. The storm O&M costs are accumulated and an initial deferral entry is booked in Great Plains for the cost that has been incurred to date. Monthly an additional query will be run for the storm job to collect any additional storm charges that have been submitted for payment. This process will be repeated each month until it is determined that all storm costs have been paid by GSE and deferrable costs accumulated to enable recovery. Charges that are deferred for collection are accumulated, reviewed for reasonableness and organized into a storm filing that is submitted to the NHPUC for audit. In addition the storm filing will be the focus of discussions in storm hearings with the NHPUC.

- 10. Storm Restoration Services to Other Utilities When a utility requests storm restoration assistance under the mutual aid program, Liberty Utilities operations will review request and approve it based upon its mutual aid approval processes. After the mutual aid approval process is complete a job will be set up in Great Plains. The job will have the date of the storm and the name of the utility that receives the assistance. If a purchase order is received for the services, a copy of the purchase order should be sent to Accounting with the correct job number clearly listed. To document when the crews have returned from their restoration assignment and to assist in billing of the utility receiving the services the Director of Electric Operations will forward an E-mailto Accounting with the following information:
  - Project and job number for each utility.
  - "Attention to" name of contact person from the utility receiving aid.
  - Number of crews and support personnel sent to each utility.
  - The time crews departed and returned.
  - "Internal Contact Name" of Liberty Utilities personnel involved with the billing.
- 11. After the storm costs are processed into the accounting system and recorded to the job, Electric Operations will notify Accounting that no further storm expenses are expected and that a bill for the assistance cost is to be sent to the utility that received the aid. The invoice support to the utility generally includes cost information on:
  - Transportation: number of vehicle, the type and how many hours utilized.
  - Outside services: primarily employee expenses.
  - Labor: summary information on employee hours worked without detailed. Breakdown by employee. The invoice notes that labor is fully burdened.