Bluestone Wind Project Preliminary Health and Safety Plan

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Bluestone Wind Project
Preliminary Health and Safety Plan

June 2018

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1. Introduction

Bluestone Wind, LLC ("Bluestone Wind") will provide a safe work environment for all Bluestone Wind-affiliated workers during construction and operation of the Bluestone Wind Energy Project (the "Project"). All jobs performed at the Project will be required to comply with Occupational Safety and Health Act (OSHA) laws and regulations, and in specific cases, will exceed these requirements. The safety and health of Bluestone Wind-affiliated workers is of the utmost importance. Consistent with this principle, Bluestone Wind has developed this Health and Safety Plan (HASP) to ensure the safety of workers during construction and operation of the Project. Bluestone Wind is a wholly owned subsidiary of Calpine Corporation ("Calpine") and has incorporated many of Calpine's health and safety procedures into this HASP by reference.

1.1. Project Description

The Project will be located in eastern Broome County, New York, in the towns of Sanford and Windsor. The Project will consist of up to 33 wind turbines with a maximum capacity of up to 124 megawatts (MW) depending on the specific wind turbine selected. In addition to the wind turbines, the Project will include access roads, a collection substation, a point of interconnection (POI) substation, battery storage, an operation and maintenance (O&M) building, permanent meteorological towers and other ancillary facilities and equipment.

1.2. Safety Program Description

Bluestone Wind will be governed by Calpine's Safety and Health Program. Calpine has an Environmental, Health and Safety (EHS) Department that is responsible for implementing procedures and policies to ensure each Project has a safe work environment. Health and Safety will be the direct responsibility of the Construction/Project Manager with the assistance of the Calpine EHS Department. The Project will be assigned an EHS specialist who will be a resource for ensuring that this HASP and related Calpine policies are implemented effectively during construction, commissioning and operation of the Project. The EHS specialist will have access to regional subject matter experts and management staff for HASP implementation support.

In addition, Calpine has a comprehensive management system that covers health and safety matters. The management system collects information from near misses and incidents that occur throughout the fleet and ensure that best management practices and lessons learned are shared. The Calpine Incident Collection System (CICS) tracks each near miss and incident and notifies selected personnel that an incident has occurred. The site will notify Calpine EHS of any incidents and the EHS representative will update CICS. An incident investigation is required for selected incidents that are significant or have the potential for lessons learned to be shared. Best management practices and lessons learned are shared throughout the fleet on conference calls, in newsletters and at tailboard meetings.

2. Program Description

A primary focus of safety programs is conducting a hazard analysis to determine what hazards workers and contractors may be exposed to. Workers will be exposed to site construction and operation conditions and activities that pose potential health and safety hazards. An analysis was performed to determine which

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hazards are anticipated during construction and operation. As a result of that analysis, corresponding programs will be developed specifically for Bluestone Wind and implemented to avoid, mitigate, and appropriately manage those hazards. The hazard analysis for construction activities is presented in Table 2-1 while the hazard analysis for site operation is presented in Table 2-2. Because the types of hazards anticipated during site construction and operation are similar, there is duplication between the tables.

Programs are overall plans that set forth the method or methods that will be followed to achieve particular health and safety objectives. For example, the Fire Protection and Prevention Program describes the steps necessary to protect against and prevent fires. This includes the equipment required, such as alarm systems and firefighting equipment, and procedures to follow to protect against fires. The programs or plans are set forth in written documents that are usually kept at specific locations at the Project.

Each program or plan contains training requirements that are translated into detailed training courses. These courses are taught to site construction and operating personnel as needed. For example, all site operating personnel will receive training in protection against heat and cold, but only those working with flammables will receive training under the operation and use of fire extinguishers.

Tables 2-1 and 2-2, which list construction and operation activities and associated hazards, respectively, identify for each activity the hazard posed by the activity and the program designed to reduce the occurrence of each hazard (under the "Control" column). Prior to commencing construction, Bluestone Wind will conduct a final assessment of the hazards associated with constructing the Project and identify the activities that necessitate development of health and safety programs. Bluestone Wind will then use the Calpine templates to develop site-specific programs for each hazard identified. Bluestone Wind will take similar steps prior to commencing operation of the Project.

Table 2-1. Construction Hazard Analysis for Bluestone Wind

Activity	Hazard	Control
Motor vehicle and heavy equipment use	Employee injury and property damage from collisions between people and equipment	• Safe Driving Program • Motor Vehicle and Heavy Equipment Safety Program
Forklift operation	Employee injury and property damage from collisions or dropped loads	Forklift Operation Program
Trenching and excavation	Employee injury and property damage from the collapse of trenches and excavations or exposure to fumes or vapors that have collected in the trench/excavation	Excavation/Trenching Program
Working at elevated locations	Falls from the same level and elevated areas	• Fall Prevention Program • Scaffolding/Ladder Safety Program • Articulating Boom Platforms Program
Using cranes and derricks	• Property damage from falling loads	• Crane and Material Handling Program

Table 2-1. Construction Hazard Analysis for Bluestone Wind

Activity	Hazard	Control
	• Employee injuries from falling loads • Injuries and property damage from contact with crane or derrick	• Crane Operator Certification
Working with flammable and combustible liquids	Fire/spills	• Fire Protection and Prevention Program • Housekeeping and Material Handling and Storage Program
Hot work (including cutting and welding)	• Employee injury and property damage from fire • Exposure to fumes during cutting and welding • Ocular exposure to ultraviolet and infrared radiation during cutting and welding	• Hot Work Safety Program • Respiratory Protection Program • Employee Exposure Monitoring Program • PPE Program • Fire Protection and Prevention Program
Inspection and maintenance of temporary systems used during construction activities	Employee injury and property damage from contact with hazardous energy sources (electrical, thermal, mechanical, etc.)	• Electrical Safety Program • LOTO Program
Working on electrical equipment and systems	Employee contact with live electricity and energized equipment	• Electrical Safety Program • PPE Program • LOTO Program
Exposure to hazardous waste	Personnel who are working with or have the potential to be exposed to hazardous waste generated during construction	Hazardous Waste Program
Confined space entry	Employee injury from physical and chemical hazards	• Permit-required, Confined-Space Entry Program • Respiratory Protection Program
General construction activity	Employee injury from hand and portable power tools	• Hand and Portable Power Tool Safety Program • PPE Program
General construction activity	Employee injury/property damage from inadequate walking and work surfaces	Housekeeping and Material Handling and Storage Program

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Table 2-1. Construction Hazard Analysis for Bluestone Wind

Activity	Hazard	Control
General construction activity	Employee exposure to occupational noise	• Hearing Conservation Program • PPE Program
General construction activity	Employee injury from improper lifting and carrying materials and equipment	• Back Injury Prevention Program • Ergonomic Awareness Program
General construction activity	Employee injury to head, eye/face, hand, body, foot, and skin	PPE Program
General construction activity	Employee exposure to hazardous gases, vapors, dusts, and fumes	• Hazard Communication Program • Respiratory Protection Program • PPE Program • Air Monitoring Program • Ergonomic Awareness Program
General construction activity	• Employee exposure to various hazards • Reporting of hazardous conditions during construction	Injury and Illness Prevention Program
General construction activity	Heat and cold stress	Heat and Cold Stress Monitoring and Control Program
Construction and testing of high-pressure steam and air systems	Employee injury and property damage due to failure of pressurized system components or unexpected release of pressure	• Electrical Safety Program • LOTO Program

Notes:
The hazards and hazard controls provided are generic to construction activities. During various phases of construction, a hazard analysis will be performed to more specifically evaluate the relevant hazards and to develop appropriate controls.
LOTO = lock-out/tag-out
PPE = personal protective equipment

Table 2-2. Operations Hazard Analysis for Bluestone Wind

Activity	Hazard	Control
Motor vehicle and heavy equipment use	Employee injury and property damage from collisions between people and equipment	• Safe Driving Program

Table 2-2. Operations Hazard Analysis for Bluestone Wind

Activity	Hazard	Control
		• Motor Vehicle and Heavy Equipment Safety Program
Forklift operation	Employee injury and property damage from collisions or dropped loads	Forklift Operation Program
Working at elevated locations	Falls from the same level and elevated areas	• Fall Prevention Program • Scaffolding/Ladder Safety Program
Using cranes and derricks	• Property damage from falling loads • Employee injuries from falling loads • Injuries and property damage from contact with crane or derrick	• Crane and Material Handling Program • Crane Operator Certification
Working with hazardous materials	Employee injury due to ingestion, inhalation, dermal contact	• Hazard Communication Program • PPE Program • Respiratory Protection Program
Hot work (including cutting and welding)	• Employee injury and property damage from fire • Exposure to fumes during cutting and welding • Ocular exposure to ultraviolet and infrared radiation during cutting and welding	• Hot Work Safety Program • Respiratory Protection Program • Employee Exposure Monitoring Program • PPE Program • Fire Protection and Prevention Program
Working on electrical equipment and systems	Employee contact with live electricity	• Electrical Safety Program • LOTO Program
Troubleshooting and maintenance of plant systems and general operational activities	Employee injury and property damage from contact with hazardous energy sources (electrical, thermal, mechanical, etc.)	• Electrical Safety Program • LOTO Program
Confined space entry	Employee injury from physical and chemical hazards	• Permit-required Confined-space Entry Program • Respiratory Protection Program
General site operation activities	Employee injuries from hand and portable power tools	• Hand and Portable Power Tool Safety Program • PPE Program
General site operation activities	Employee injury and property damage from inadequate walking and work surfaces	• Housekeeping and Material Handling and Storage Program

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Table 2-2. Operations Hazard Analysis for Bluestone Wind

Activity	Hazard	Control
		• Fall Protection Program
General site operation activities	Employee overexposure to occupational noise	• Hearing Conservation Program • PPE Program
General site operation activities	Employee injury from improper lifting and carrying materials and equipment	• Back Injury Prevention Program • Ergonomic Awareness Program
General site operation activities	Employee injury and property damage from unsafe driving	Safe Driving Program
General site operation activities	Employee overexposure to hazardous gases, vapors, dusts, and fumes	• Hazard Communication Program • Respiratory Protection Program • PPE Program • Employee Exposure Monitoring Program
General site operation activities	Reporting and repairing hazardous conditions	Injury and Illness Prevention Program
General site operation activities	Heat and cold stress	Heat and Cold Stress Monitoring and Control Program
General site operation activities	Ergonomic injuries	Workplace Ergonomics Program

Notes:
The hazard and hazard controls provided are generic to operational activities. This hazard analysis will be updated, as necessary, prior to commissioning of the Project or if Project operations change or new equipment is added that was not considered during this evaluation.

3. Health and Safety Programs

To protect the safety and health of workers during the construction and operation of the Project, health and safety programs designed to mitigate hazards and comply with applicable regulations will be implemented. Periodic audits will be performed by qualified individuals to determine whether proper work practices are being used to mitigate hazardous conditions and to evaluate regulatory compliance. The following subsections contain information on the anticipated content of the health and safety programs to be implemented at the Project.

3.1. Construction

The health and safety programs outlined in Table 3-1 will be developed and implemented during construction of the Project.

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Table 3-1. Construction Health and Safety Programs

Program Name	Topics Addressed in the Program
Injury and Illness Prevention Program	• Philosophy and safety commitment • Safety leadership and responsibilities • Accountability • Specific core safety processes (see Construction Safety Programs later in this subsection) • Employee communication • Planning "job hazard analysis and pre-task" • Compliance with work rules and safe work practices • Measurement of compliance and effectiveness of prevention methods, and inspections/audits • Communication of performance and implementation of necessary improvements • Training and other communication requirements
Fire Protection and Prevention Program	• General requirements • Housekeeping and proper material storage • Employee alarm/communication system • Portable fire extinguishers • Fixed firefighting equipment • Fire control and containment • Flammable and combustible liquid storage • Dispensing and disposal of flammable liquids • Service and refueling areas • Training
PPE Program	• Personal protective devices • Hazard analysis • Training • Head protection • Eye/face protection • Body protection • Hand protection • Foot protection • Skin protection • Fall protection • Electrical arc flash protection • Respiratory protection • Ergonomic Awareness Program • Hearing protection
First Aid, CPR, and Automated External Defibrillator	• General requirements • Written program • Training

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Table 3-1. Construction Health and Safety Programs

Program Name	Topics Addressed in the Program
	• Maintenance
Emergency Action Program/Plan	Emergency procedures for the protection of personnel, equipment, the environment, and materials: • Fire and emergency reporting procedures • Response actions for accidents involving personnel and/or property • Bomb threat response procedures • Site assembly and emergency evacuation route procedures • Natural disaster response • Stop work authority Reporting and notification procedures for emergencies and contacts, including offsite and local authorities: • Alarm and communication systems • Spill response, prevention, and control action plan • Emergency response equipment • Training requirements
Motor Vehicle and Heavy Equipment Safety Program	• Operation and maintenance of vehicles • Inspection • PPE • Training
Forklift Operation Program	• Trained and certified operators • Fueling operations • Safe operating parameters • Training
Excavation/Trenching Program	• Shoring, sloping, and benching requirements • OSHA permit requirements • Inspection • Air monitoring • Access and egress
Fall Protection Program	• Evaluation of fall hazards • Protection devices • Training
Scaffolding/Ladder Safety Program	• Construction and inspection of equipment • Proper use • Training
Articulating Boom Platforms Program	• Inspection of equipment o Load ratings • Safe operating parameters • Operator training
Crane and Material Handling Program	• Certified and licensed operators • Inspection of equipment

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Table 3-1. Construction Health and Safety Programs

Program Name	Topics Addressed in the Program
	o Load ratings • Safe operating parameters • Training
Hazardous Waste Program	• Evaluation of hazard • Training • PPE Program
Hot Work Safety Program	• Welding and cutting procedures • Acetylene and fuel gas safety procedures • Fire watch • Hot work permit • PPE • Training
Employee Exposure Monitoring Program	• Exposure evaluation • Monitoring requirements • Reporting of results • Medical surveillance • Training
Electrical Safety Program	• Grounding procedure • Overhead and underground utilities • Utility clearance • Assured Grounding Program/Ground Fault Circuit Interrupters • Training
LOTO Program	• Allocation of devices (locks, tags, and adaptors) • LOTO sequencing • Types/magnitudes of energy • Types/locations of machines • Zero Energy Verification • Training
Permit-required Confined-space Entry Program	• Air monitoring and ventilation requirements • Rescue procedures • LOTO and blocking, blinding, and blanking requirements • Permit completion • Training
Hand and Portable Power Tool Safety Program	• Guarding and proper operation • Training
Housekeeping and Material Handling and Storage Program	• Storage requirements • Walkways and work surfaces • Equipment handling requirements • Training

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Table 3-1. Construction Health and Safety Programs

Program Name	Topics Addressed in the Program
Hearing Conservation Program	• Identifying high-noise environments • Exposure monitoring • Medical surveillance requirements • Hearing-protective devices • Training
Back Injury Prevention Program	• Proper lifting and material handling procedures • Training • Ergonomics Awareness Program
Hazard Communication Program	• Labeling requirements • Storage and handling • Safety Data Sheets (SDSs) • Chemical inventory • Training
Respiratory Protection Program	• Selection and use • Storage • Fit testing • Medical requirements • Inspection and repair • Training
Heat and Cold Stress Monitoring and Control Program	• Monitoring requirements • Prevention and control

3.2. Operations

Upon completion of construction and commencement of operations at the Project, the construction Health and Safety Plan will transition into an operation-oriented program reflecting the hazards and controls necessary during operation. Table 3-2 outlines the topics that will be included in the Operation Health and Safety Program.

Table 3-2. Operations Health and Safety Programs

Program Name	Topics Addressed in the Program
Injury and Illness Prevention Program	• Personnel with the responsibility and authority for implementing the plan • Safety and health policy • Work rules and safe work practices • System for ensuring that employees comply with safe work practices • Employee communications • Identification and evaluation of workplace hazards • Methods and/or procedures for correcting unsafe or unhealthy conditions, work practices, and work procedures in a timely manner based on the severity of the hazards

Table 3-2. Operations Health and Safety Programs

Program Name	Topics Addressed in the Program
	• Specific safety procedures (see also Table 2-2) • Training and instruction
First Aid, CPR, and Automated External Defibrillator	• General requirements • Written program • Training • Maintenance
Fire Protection and Prevention Program	• General requirements • Fire hazard inventory, including ignition sources and mitigation • Housekeeping and proper materials storage • Employee alarm/communication system • Portable fire extinguishers • Fixed firefighting equipment • Fire control • Flammable and combustible liquid storage • Use of flammable and combustible liquids • Dispensing and disposal of liquids • Training • Personnel to contact for information on plan contents
Emergency Action Program/Plan	This program/plan is part of the Risk Management Plan and Process Safety Management Program. • Emergency escape procedures and emergency escape route assignments Procedures to be followed by employees who remain to operate critical site operations before they evacuate. • Procedures to account for all employees after emergency evacuation has been completed • Rescue and medical duties for those employees performing rescue and medical duties • Fire and emergency reporting procedures • Alarm and communication system • Personnel to contact for information on plan contents • Training requirements
PPE Program	• Hazard analysis and prescription of PPE • Personal protective devices • Head protection • Eye and face protection • Body protection • Hand protection • Foot protection • Skin protection • Sanitation

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Table 3-2. Operations Health and Safety Programs

Program Name	Topics Addressed in the Program
	• Safety belts and life lines for fall protection • Protection for electric shock • Medical services and first aid/bloodborne pathogens • Respiratory protective equipment • Hearing protection • Training
Motor Vehicle and Heavy Equipment Safety Program	• Operation and maintenance of vehicles • Inspection • PPE • Training
Forklift Operation Program	• Trained and certified operators • Fueling operations • Safe operating parameters • Training
Excavation/Trenching Program	• Shoring, sloping, and benching requirements • OSHA permit requirements • Inspection • Air monitoring • Access and egress Fall Protection Program • Evaluation of fall hazards • Protection devices • Training
Scaffolding/Ladder Safety Program	• Construction and inspection of equipment • Proper use • Training
Articulating Boom Platforms Program	• Inspection of equipment • Load ratings • Safe operating parameters • Operator training
Crane and Material Handling Program	• Certified and licensed operators • Inspection of equipment • Load ratings • Safe operating parameters • Training
Hot Work Safety Program	• Welding and cutting procedures • Acetylene and fuel gas safety • Fire watch • Hot work permit • PPE

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Table 3-2. Operations Health and Safety Programs

Program Name	Topics Addressed in the Program
	• Training
Workplace Ergonomics Program	• Identification of personnel at risk • Evaluation of personnel • Workplace and job activity modifications • Training
Electrical Safety Program	• Grounding procedure • Overhead and underground utilities • Utility clearance • Training
LOTO Program	• Allocation of LOTO devices (locks, tags, and adaptors) • Machine-specific LOTO procedures • Steps for verification of isolation • Zero energy verification • Training (Affected and Authorized and Interaction with Energized Electrics) • Annual program review
Permit-required Confined-space Entry Program	• Air monitoring and ventilation requirements • Rescue procedures • LOTO and blocking, blinding, and blanking requirements • Permit completion • Training • PPE Program
Hand and Portable Power Tool Safety Program	• Guarding and proper operation • Training
Housekeeping and Material Handling and Storage Program	• Storage requirements • Walkways and work surfaces • Equipment handling requirements • Training
Hearing Conservation Program	• Identifying high-noise environments • Exposure monitoring • Medical surveillance requirements • Hearing-protective devices • Training
Back Injury Prevention Program	• Proper lifting and material-handling procedures • Training • Ergonomics Awareness Program
Hazard Communication Program	• Labeling requirements • Storage and handling • SDSs • Chemical inventory

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Table 3-2. Operations Health and Safety Programs

Program Name	Topics Addressed in the Program
	• Training
Respiratory Protection Program	• Selection and use • Storage • Fit testing • Medical requirements • Inspection and repair • Training
Heat and Cold Stress Monitoring and Control Program	• Monitoring requirements • Prevention and control
Safe Driving Program	• Inspection and maintenance • Training

3.3. Safety Training

To ensure that employees recognize and understand how to protect themselves from potential hazards during this project, comprehensive training programs for construction and operation will be implemented as indicated in Tables 3-3 and 3-4. Each of the safety procedures developed to control and mitigate potential site hazards will require some form of training. Training will be delivered in a variety of ways, depending on the requirements of the particular OSHA standard, the complexity of the topic, the characteristics of the workforce, and the degree of risk associated with each of the identified hazards.

Tables 3-3 and 3-4 summarize the safety training programs that will be provided to construction and operations personnel, respectively.

Table 3-3. Construction Training Program

Training Course	Target Employees
Injury and Illness Prevention Training	All
Emergency Action Program/Plan	All
PPE Training	All
Motor Vehicle and Heavy Equipment Safety Training	Employees working on, near, or with heavy equipment or vehicles
Forklift Operation Training	Employees operating forklifts
Excavation/Trenching Safety Training	Employees involved with trenching or excavation
Fall Protection Training	Employees working at heights greater than 6 feet or required to use fall protection
Scaffolding/Ladder Safety Training	Employees required to erect or use scaffolding or ladders
Crane Safety Training	Employees supervising or performing crane operations
Hazard Communication Training	Employees handling or working with hazardous materials

Table 3-3. Construction Training Program

Training Course	Target Employees
Hazardous Waste Training	Employees handling hazardous waste
Hot Work Safety Training	Employees performing hot work
LOTO Training	Employees performing LOTO or working on systems that require LOTO activities
Electrical Safety Training	Employees required to work on electrical systems and equipment, or use electrical equipment and cords
Permit-required Confined-space Entry Training	Employees required to supervise or perform confined-space entry activities
Hand and Portable Power Tool Safety Training	Employees who will be operating hand and portable power tools
Powder-actuated Tool Safety Training	Employees who will be operating powder-actuated tools
Heat Stress and Cold Stress Safety Training	All
Hearing Conservation Training	All
Back Injury Prevention Training	All
Safe Driving Training	All
Respiratory Protection Training	All employees required to wear respiratory protection
Fire Protection and Prevention Training	All
First Aid, CPR, and Automated External Defibrillator	All

Table 3-4. Operations Training Program

Training Course	Target Employees
Injury and Illness Prevention Training	All
Emergency Action Program/Plan	All
PPE Training	All
Forklift Operation Training	Employees operating forklifts
Fall Protection Training	Employees working at heights greater than 6 feet or required to use fall protection
Scaffolding/Ladder Safety Training	Employees required to erect or use scaffolding or ladders
Crane Safety Training	Employees supervising or performing crane operations
Hazard Communication Training	Employees handling or working with hazardous materials
Hazardous Waste Training	Employees handling hazardous waste
Hot Work Safety Training	Employees performing hot work
LOTO Training	Employees performing LOTO or working on systems that require LOTO activities

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Table 3-4. Operations Training Program

Training Course	Target Employees
Electrical Safety Training	Employees required to work on electrical systems and equipment, or use electrical equipment and cords
Permit-required Confined-space Entry Training	Employees required to supervise or perform confined-space entry activities
Hand and Portable Power Tool Safety Training	Employees who will be operating hand and portable power tools
Heat Stress and Cold Stress Safety Training	All
Hearing Conservation Training	All
Back Injury Prevention Training	All
Safe Driving Training	All
Respiratory Protection Training	All employees required to wear respiratory protection
Fire Protection and Prevention Training	All
First Aid, CPR, and Automated External Defibrillator	All
Workplace Ergonomics Training	All

3.4. Laws and Regulations

Construction and operation of the Project will be conducted in accordance with all applicable laws and regulations. Table 3-5 summarizes the federal, state, and local laws and regulations relating to worker health and safety. Table 3-5 also identifies potentially applicable national consensus standards.

Table 3-5. Laws and Regulations for Worker Health and Safety

Laws and Regulations	Requirements/Applicability
Federal	
29 CFR Part 1910	Contains the minimum occupational safety and health standards for general industry in the United States
29 CFR Part 1926	Contains the minimum occupational safety and health standards for the construction industry in the United States
State of NY	
12 NYCRR Part 23	Addresses protection in construction, demolition and excavation operations
12 NYCRR Part 57	Addresses activities in relation to high voltage lines
12 NYCRR Part 59	Addresses workplace safety, loss and prevention programs
12 NYCRR Subpart 61-3	Establishes licensing requirements for crane operators
Local Town Standards for Sanford and Windsor	

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Table 3-5. Laws and Regulations for Worker Health and Safety

Laws and Regulations	Requirements/Applicability
None	
Potentially-Applicable National Standards	
Uniform Fire Code, Article 80	Addresses the prevention, control, and mitigation of dangerous conditions related to storage, dispensing, use, and handling of hazardous materials and information needed by emergency response personnel
NFPA 10, Standard for Portable Fire Extinguishers	Requirements for selection, placement, inspection, maintenance, and employee training for portable fire extinguishers
NFPA 11, Standard for Low-Expansion Foam and Combined Agent Systems	Requirements for installation and use of low-expansion foam and combined-agent systems
NFPA 13, Standard for Installation of Sprinkler Systems	Guidelines for selection and installation of fire sprinkler systems
NFPA 13A, Recommended Practice for the Inspection, Testing, and Maintenance of Sprinkler Systems	Guidance for inspection, testing, and maintenance of sprinkler systems
NFPA 14, Standard for the Installation of Standpipe and Hose Systems	Guidelines for selection and installation of standpipe and hose systems
NFPA 17, Standard for Dry Chemical Extinguishing Systems	Guidance for selection and use of dry chemical extinguishing systems
NFPA 22, Standard for Water Tanks for Private Fire Protection	Requirements for water tanks for private fire protection
NFPA 24, Standard for the Installation of Private Fire Service Mains and Their Appurtenances	Requirements for private fire service mains and their appurtenances
NFPA 26, Recommended Practice for the Supervision of Valves Controlling Water Supplies	Supervision guidance for valves controlling water supplies
NFPA 30, Flammable and Combustible Liquid Code	Requirements for storage and use of flammable and combustible liquids
NFPA 70, National Electric Code	Guidance on safe selection and design, installation, maintenance, and construction of electrical systems
NFPA 70, Article 480, National Electric Code (Storage Batteries)	Requirements for safe installation and wiring for battery electrical systems
NFPA 70B, Recommended Practice for Electrical Equipment Maintenance	Guidance on electrical equipment maintenance
NFPA 70E, Standard for Electrical Safety Requirements for Employee Workplaces	Employee safety requirements for working with electrical equipment
NFPA 71, Standard for the Installation, Maintenance, and Use of Central Station Signaling Systems	Requirements for installation, maintenance, and use of central station signaling systems
NFPA 72A, Standard for the Installation, Maintenance, and Use of Local Protective	Requirements for installation, maintenance, and use of local protective signaling systems

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Table 3-5. Laws and Regulations for Worker Health and Safety

Laws and Regulations	Requirements/Applicability
Signaling Systems for Guard's Tour, Fire Alarm, and Supervisory Service	
NFPA 72E, Standard on Automatic Fire Detection	Requirements for automatic fire detection
NFPA 72F, Standard for the Installation, Maintenance, and Use of Emergency Voice/Alarm of Communication Systems	Requirements for installation, maintenance, and use of emergency and alarm communications systems
NFPA 72H, Guide for Testing Procedures for Local, Auxiliary, Remote Station, and Proprietary Protective Signaling Systems	Testing procedures for types of signaling systems anticipated for the Project
NFPA 75, Standard for the Protection of Electronic Computer/Data Processing Equipment	Requirements for fire protection systems used to protect computer systems
NFPA 78, Lightning Protection Code	Lightning protection requirements
NFPA 80, Standard for Fire Doors and Windows	Requirements for fire doors and windows
NFPA 90A, Standard for the Installation of Air Conditioning and Ventilating Systems	Requirements for installation of air conditioning and ventilating systems
NFPA 101, Code for Safety to Life from Fire in Buildings and Structures	Requirements for design of means of exiting the Project
NFPA 291, Recommended Practice for Fire Flow Testing and Marking of Hydrants	Guidelines for testing and marking of fire hydrants
NFPA 1961, Standard for Fire Hose	Specifications for fire hoses
NFPA 1962, Standard for the Care, Maintenance, and Use of Fire Hose Including Connections and Nozzles	Requirements for care, maintenance, and use of fire hoses
NFPA 1963, Standard for Screw Threads and Gaskets for Fire Hose Connections	Specifications for fire hose connections

Notes:
ASME = American Society of Mechanical Engineers, OSHA = Occupational Safety and Health Administration, and NFPA = National Fire Protection Association

4. Agencies and Agency Contacts

Several agencies are involved to ensure protection of worker health and safety. Agency contacts relative to day-to-day worker health and safety and fire concerns are shown in Table 4-1. Emergency contacts are identified in Bluestone Wind's Emergency Action Plan.

Table 4-1 Agency Contacts for Worker Health and Safety

Issue	Agency	Contact
Fire Response	Fire Department	
Worker Health and Safety	OSHA	
EMS		

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