



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

The Site-Specific Safety Plan (SSSP)

Pulsar Helium is committed to achieving ZERO accidents, ZERO injuries, and ZERO negative impacts on the environment. Work tasks should be designed to eliminate or mitigate hazards to personnel, health, the environment, processes, equipment, and reputation. No worker should ever perform a task that may endanger their own or others' safety or health.

This Site-Specific Safety Plan (SSSP) outlines the Safety, Health, and Environmental (SafeHE) requirements and guidelines for the Jetstream #1 project. These requirements are intended to protect site personnel, visitors, the general public, and the environment from potential SHE hazards on the job site. The plan includes various measures to ensure the protection of the environment, the public, and the workforce during all phases of work, including but not limited to construction, drilling, completions, and any simultaneous operations (SIMOPS). This plan will be updated if there are significant changes to project conditions, situations, or exposures.

Introduction

The Contractor shall have sole and complete responsibility for implementing a worksite safety plan, taking all necessary precautions for the health and safety of their employees. They must fully comply with all applicable provisions of 29 CFR 1910-OSHA General Industry Safety and Health Standards, 29 CFR 1926-OSHA Construction Safety and Health Standards, and any other referenced standards or codes in the listed document. Contractors must also maintain emergency plans for their operations and be familiar with the Incident Command System and their specific roles within it.

The purpose of this Site-Specific Safety Plan is to identify risks associated with operations at the Pulsar Helium Seismic Acquisition and Jetstream #1 site and to eliminate or reduce those risks to an acceptable level.

Due to the evolving nature of health and safety regulations and the continuous availability of new information, this plan is subject to change without notice.



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

Table Of Contents

Statement of Company Policy

Section 1 Scope of Work

Section 2 Emergency Contact/ Management Information

Section 3 Incident Management

Section 4 Training

Section 5 Regulatory Safety Requirements

- Physical Work Environment, Subparts D and E
- Powered Platforms, Manlifts, and Vehicle-mounted Work Platforms, Subpart F
- Environmental Controls, Subparts G and J
- Personal Protective Equipment, Subpart I
- Toxic and Hazardous Materials, Subparts H and Z
- Materials Handling and Storage, Subpart N
- Fire Protection and Welding, Subparts L and Q
- Machinery: Large and Small, Subparts O and P
- Electrical, Subpart S
- Construction (29 CFR 1926)

Section 6 Orientation

Section 7 Communication

Section 8 Insect and Wildlife Hazard Mitigation

Section 9 Posting of the SSSP



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

Safety Policy Statement

At Pulsar Helium, we believe it is important to protect the health and safety of our employees and safeguard the environment wherever and whenever we conduct our business operations. This belief begins with the exploratory phase of our operations, and extends through all other phases, including the drilling of wells, production operations, and finally, the sale of our production. We also seek to affiliate with other businesses that recognize the importance of safeguarding the environment and protecting the health and safety of their employees and anyone else with whom they interact.

To align with Pulsar Helium's guiding principles and objectives, our Health, Safety & Environmental Policy is as follows:

- We will comply with all environmental, health, and safety laws and regulations.
- We will conduct our operations in a manner that respects the environment and prioritizes the health and safety of our employees.
- We will cooperate with federal, state, and local government agencies responsible for environmental protection and individual health and safety.
- We will use practical and available technology to maintain effective environmental, health, and safety procedures and equipment.
- We will respond quickly and effectively to any environmental, health, and safety incidents involving Pulsar Helium facilities, equipment, or products under our control.
- We will maintain comprehensive reporting procedures internally within Pulsar Helium and externally to governmental agencies.
- We will encourage our employees to pursue training opportunities that emphasize individual responsibility for sound environmental, health, and safety management.
- We will maintain corporate and core operating area environmental, health, and safety monitoring programs to ensure compliance with both Pulsar Helium's SafeHE Policy and governmental requirements.
- We will ensure that all contractors engaged to perform services at our sites comply with these principles.



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

Section 1: Scope Of Work

The seismic acquisition project involves a detailed and systematic approach, focusing on deploying and retrieving wireless seismic nodes and operating vibratory trucks. The scope includes:

- Deployment of Wireless Seismic Nodes: Strategically placing nodes to capture seismic data accurately.
- Retrieval of Wireless Seismic Nodes: Systematically collecting nodes post-data acquisition. At a minimum, this project involves drilling and may involve any of the following.
- Operation of Vibratory Trucks and weight drops: Utilizing trucks and weights to generate seismic waves for data collection.

Potential Safety Concerns and Mitigation Strategies

1. Setting and Retrieving Wireless Seismic Nodes

Safety Concerns:

- Slips, Trips, and Falls: Risks associated with uneven terrain.
- Musculoskeletal Injuries: Potential injuries from carrying equipment.
- Wildlife Interactions: Possible encounters with local wildlife.

Mitigation Strategies:

- Terrain Assessments: Conduct thorough evaluations and mark hazardous areas.
- Personal Protective Equipment (PPE): Provide appropriate PPE, including sturdy footwear and gloves.
- Ergonomic Training: Implement training programs focused on proper lifting techniques and use of assistive devices for heavy loads.
- Wildlife Awareness: Train personnel on wildlife awareness and establish response protocols

2. Operation of Vibratory Trucks and weight drops.

Safety Concerns:

- Vehicle Rollover: Risk of rollovers on uneven or soft ground.
- Dust and Noise Exposure: Potential health impacts from dust and noise.
- Interaction with Recreational Traffic: Possible conflicts with ATV and vehicle traffic.
- Injury from the falling weight or debris.

Mitigation Strategies:

- Route Assessments: Conduct thorough assessments and reinforce ground stability as needed.
- Dust Suppression: Utilize techniques such as water spraying to control dust if applicable.



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

- Hearing Protection: Provide hearing protection and enforce noise exposure limits.
- Traffic Control: Implement measures, including signage and communication with local authorities, to manage traffic safely as applicable.
- Regularly inspect lifting and dropping equipment for wear and damage to prevent mechanical failure.
- Ensure that the weight-lifting mechanisms (e.g., cranes or hoists) are operated by trained and certified personnel.
- Clear the area of any obstacles, loose materials, or unstable ground that could affect the drop or create hazards.
- Mark and secure the drop zone to prevent unauthorized access.

3. Recreational Traffic on Forest Route 112

Safety Concerns:

- Collisions with Recreational Vehicles: Risks of accidents with recreational traffic.
- Low Visibility Conditions: Increased dangers during dusk, dawn, and inclement weather.

Mitigation Strategies:

- Temporary Traffic Signs, Barriers, or Pilots: Install signage or barriers or use spotters/flaggers to alert recreational users about ongoing activities as applicable.

The Jetstream #1 Project involves many independent operations and contractors in which the events of any one operation may impact the safety of personnel or equipment or the environment of another operation.

At a minimum, this project involves drilling and may involve any of the following.

- rig move operations.
- completion operations
- civil construction operations
- facility construction operations
- pipeline construction operations.
- flowback operations and
- well delivery and
- production operations, and
- may include any incidence where concurrent operations create risk.



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

Section 2: Emergency Contact Information

Sheriff – Fire – Medical – Air Transport 911

Babbitt Police	(218) 827-2441
Babbitt EMS Fire	(218)-827-2166
Life Link III Air Medical Transport	(612) 638 - 4900
Poison Control	(800) 222-1222
Health-Babbitt Clinic	(218) 827-2176
Pulsar Helium Safety Health & Environment Richard Bunker	(218) 235-8689 (435) 253-0716
Nearest Hospital (24 HR) Ely-Bloomenson Community Hospital	(218) 365-3271 328 W Conan St, Ely, MN 55731

53 min (31.6 miles) via Forest Rte 112 and Hwy 21 N

Head northwest on Forest Rte 112/Dunka Lk Rd toward Forest Rte 114

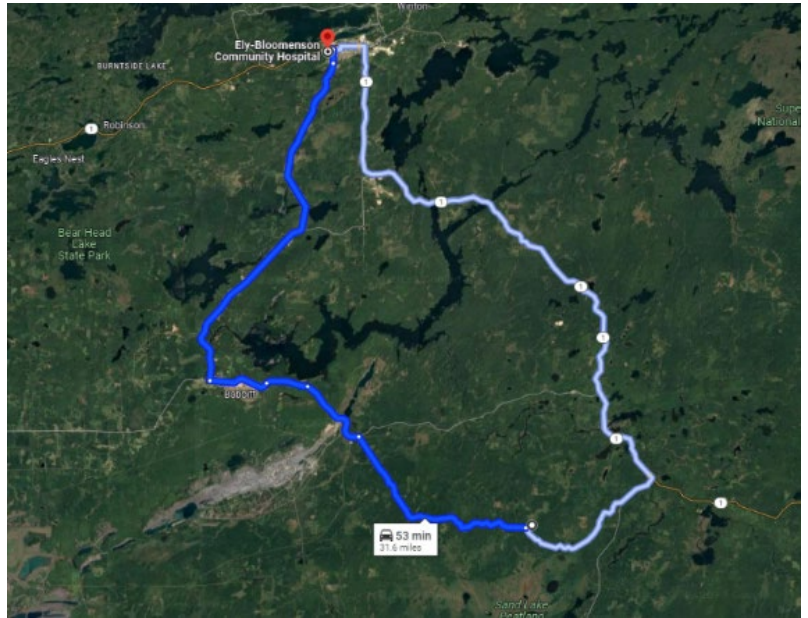
Continue to follow Forest Rte 112

24 min (8.8 mi)

Take Hwy 21 N to W Harvey St in Ely
27 min (22.5 mi)

Continue on W Harvey St to your destination
1 min (0.3 mi)

Ely-Bloomenson Community Hospital
328 W Conan St, Ely, MN 55731



LOCATION INFORMATION

Location/Intersection Name:	GPS Coordinates:
Jetstream #1	47.634683 -91.701145
Forest Rte. 112/424 & Scott Rd	47.684083, -91.845904
Forest Rte. 112 & US Forest Service Hwy 15/County Hwy 2	47.647224, -91.626869

ADDITIONAL INFORMATION

--

Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

Emergency Medical Response

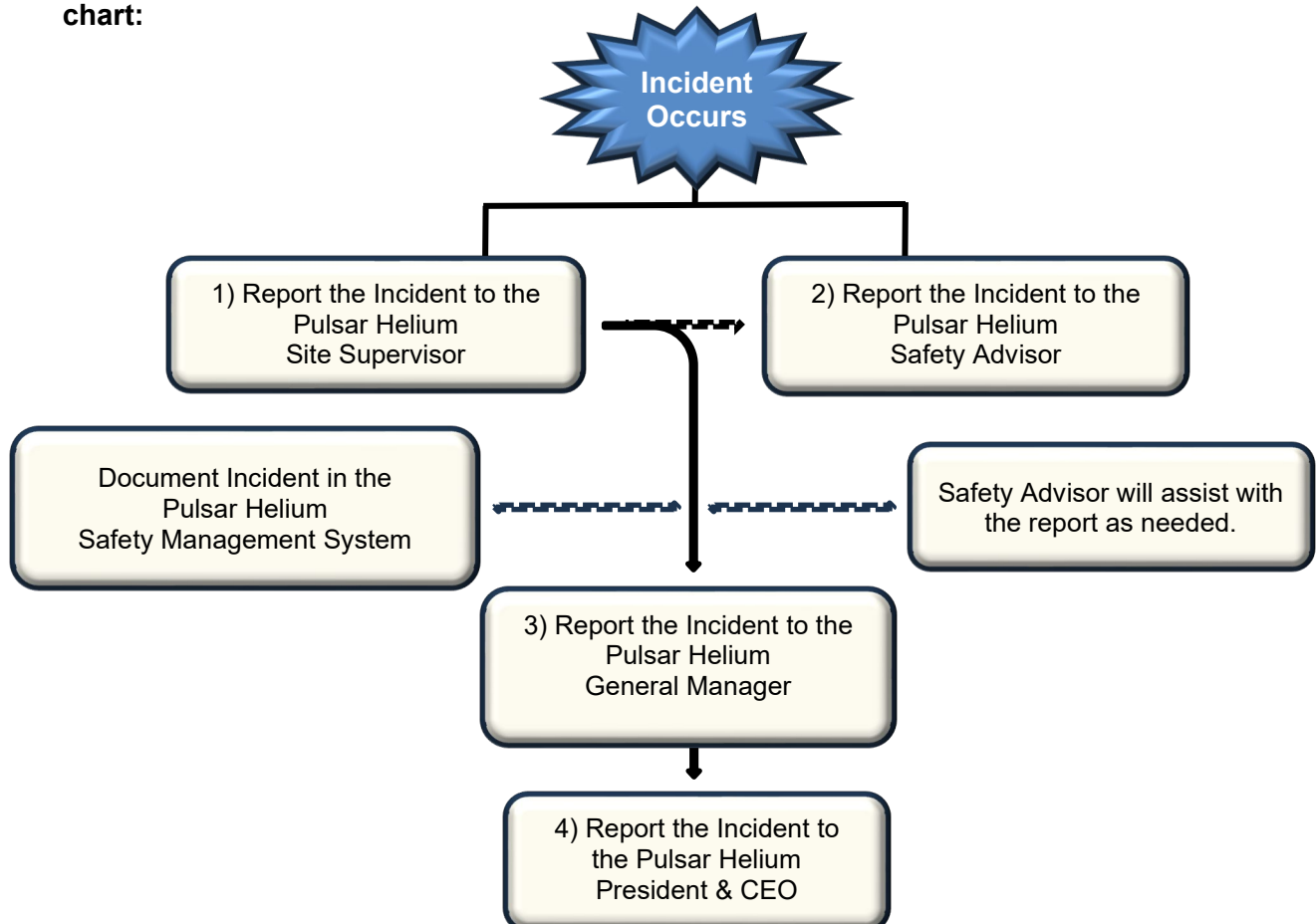
In addition to this SSSP, the contractor shall display posters with emergency telephone numbers and locations of emergency facilities in visible locations and at selected phone locations throughout the project area including subcontractor facilities and at the gate guard if applicable. The following information must be provided:

- Company emergency contacts (name, position, phone number(s))
- Hospital name, location, and number
- Occupational Clinic name, location, and number
- Police department name, location, and number
- Fire department name, location, and number

Section 3: Incident Management

- All accidents, near misses or incidents occurring on a Pulsar Helium location that did or could have resulted in harm equal to or greater than a Level 1 risk level (as noted in the Pulsar Helium Emergency Response Plan (ERP)) must be verbally reported to the Pulsar Operations Supervisor and Pulsar Safety Advisor and entered into the Pulsar Helium SMS as soon as possible.

The incident notification requirements are as noted in the below incident notification flow chart:





Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

Emergency Evacuation

- When the prominent alarm sounds, identify the direction of the wind and evacuate cross wind and upwind from the well or source of the hazard.
- Evacuate to the safe muster point as depicted in the following evacuation plan. If the wind changes, move to the muster point most up-wind and furthest from of the gas release, fire or other hazard.
- The prospective contractor management will respond to the muster points and assist with a head count. They will report the headcount to the site supervisor and assist with the rescue if trained/qualified.
- Do not leave the location during an emergency evacuation until you have been accounted for and received permission from the site supervisor or their delegate.
- DO NOT start your vehicle or any power tools during a gas release.
- DO NOT smoke during a gas release.
- Extinguish all cigarettes and smoldering cigarettes in the butt can when in gas release conditions.

Evacuation Routes

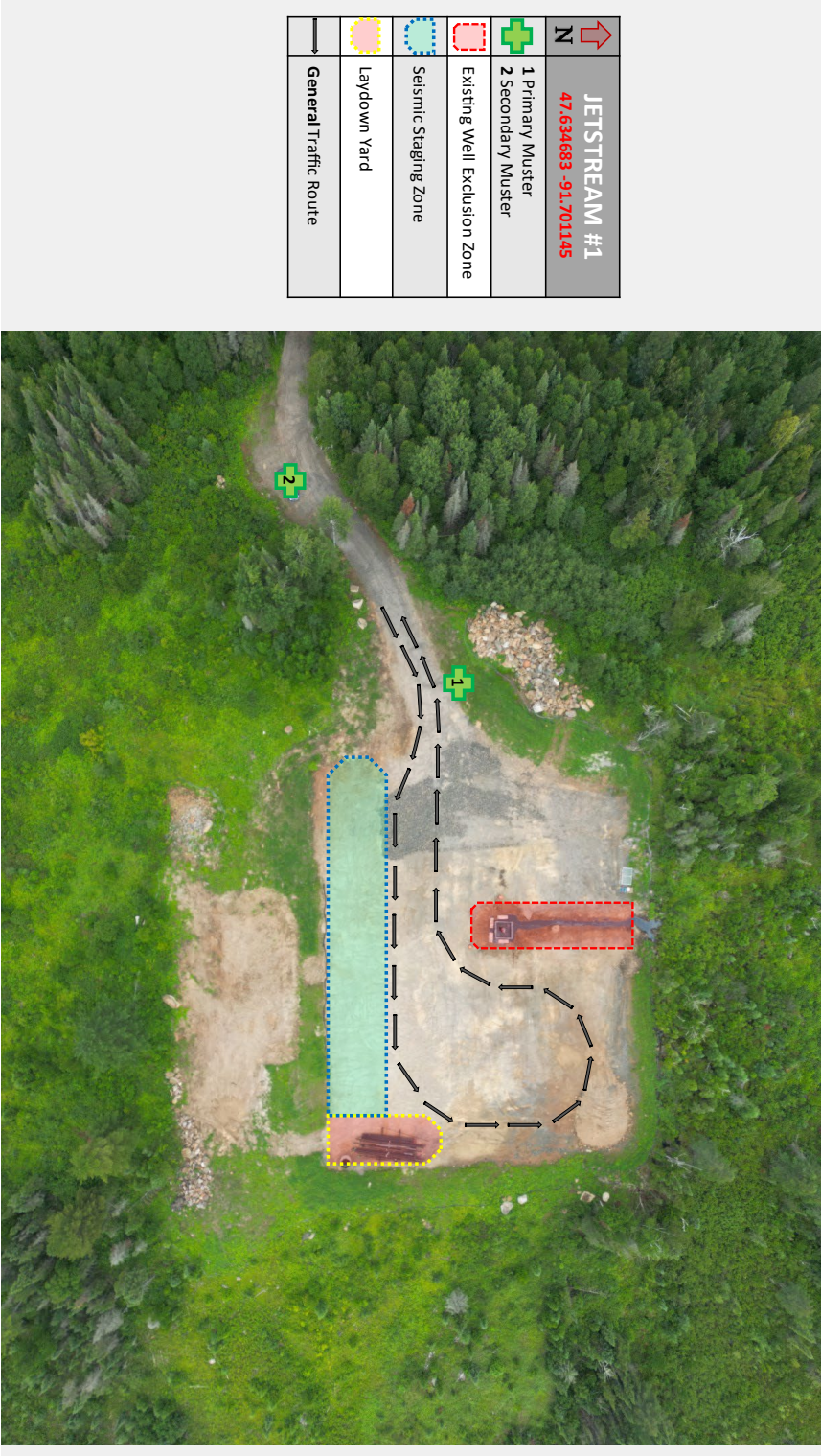
- Evacuation routes are intended for emergencies requiring evacuation.
- Operation will establish muster points for their location and activities.
- The following is intended to depict the muster points in the event of a gas release or other emergency (not a drill). It is important you evacuate cross and up-wind and muster at the most upwind location furthest from the source of the gas release, fire, or other hazardous condition requiring evacuation.

Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

Evacuation Routes

Evacuate cross and upwind away from the hazard source. NOTE: Map NOT to scale.





Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

Section 4: Training

- Pulsar Helium requires all personnel who work on a Company location to complete a Pulsar Helium Safety Orientation. The orientation will cover safety procedures for operations that may be encountered on a Company operation including construction, drilling, completions, well start-up and production.
- The contractor shall hold daily safety meetings prior to the start of each work shift. The meetings should last at least 15 minutes and must be documented (all attendees must sign in).
- Contractors should conduct periodic "tailgate" safety meetings as conditions, people, and other factors change throughout the shift.
- Contractors will keep an Emergency Action Plan on location and coordinate with Pulsar on drills, Incident Command System roles, and coordination.
- All Pulsar Helium contractors are required to maintain a comprehensive safety and health training program that, at a minimum, meets regulatory and internal company requirements. The contractor must maintain training records electronically and/or on-site.
- Contractors shall provide employees with effective information and training on hazardous chemicals in their work area at the time of their initial assignment, and whenever a new chemical is introduced to the worksite. Chemical-specific information must always be available through labels and safety data sheets. Pulsar Helium will maintain an SDS library of chemicals known or anticipated to be present on any given operation at: <https://safehe.com/right-to-know>

Section 5: Regulatory Safety Requirements

It is the policy of Pulsar Helium to comply with all environmental, health and safety laws and regulations as outlined below. Pulsar Helium will maintain a safety assessment program to help ensure contractors meet the minimum regulatory requirements as well as their company specific internal requirements that may go beyond the minimum regulatory requirements.

OSHA Standards

The General Duty Clause of the OSH Act (the law that created OSHA) requires employers to provide workers with a safe workplace that does not have any recognized hazards that cause or are likely to cause death or serious injury. Exposures to hazards present in the well drilling, servicing, and storage industry are addressed in specific standards for general industry.

As mentioned in the letter of interpretation, [Applicability of 29 CFR 1926 to oil and gas well drilling and servicing operations](#), (April 27, 2009), site preparation is the only aspect of oil and gas well drilling and servicing operations covered by 29 CFR 1926. Site preparation includes activities such as leveling the site, trenching, and excavation. All other aspects of oil and gas well drilling and servicing operations are covered by 29 CFR 1910; when a serious hazard exists in the workplace that is not addressed by a specific OSHA standard, Section 5(a)(1) ("General Duty Clause") of the OSH Act applies.



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

General Industry ([29 CFR 1910](#))

Physical Work Environment, Subparts D and E

- Walking and-working surfaces [1910 Subpart D](#)
 - General requirements [1910.22](#)
 - Stairways [1910.25](#)
 - Scaffolds and rope descent systems [1910.27](#)
 - Duty to have fall protection and falling object protection [1910.28](#) [\[related topic page\]](#)
- Means of egress [1910 Subpart E](#)
 - Exit routes, emergency action plans and fire prevention plans [1910 Subpart E](#) [Appendix](#) [\[related topic page\]](#)
 - Design and construction requirements for exit routes [1910.36](#)
 - Maintenance, safeguards, and operational features for exit routes [1910.37](#)

Powered Platforms, Manlifts, and Vehicle-mounted Work Platforms, Subpart F

- Powered platforms for building maintenance [1910.66](#)
- Personal fall arrest system (section I-mandatory; sections II and III-non-mandatory) [Appendix C](#)

Environmental Controls, Subparts G and J

- Occupational health and environment control [1910 Subpart G](#)
 - Occupational noise exposure [1910.95](#) Note: 1910.95(o) states: "Paragraphs (c) through (n) of this section shall not apply to employers engaged in oil and gas well drilling and servicing operations."
- General environmental controls [1910 Subpart J](#)
 - Sanitation [1910.141](#)
 - Specifications for accident prevention signs and tags [1910.145](#)
 - Permit-required confined spaces [1910.146](#) [\[related topic page\]](#)
 - The control of hazardous energy (lockout/tagout) [1910.147](#) [\[related topic page\]](#)
 - Typical minimal lockout procedures [Appendix A](#)
 - Medical services and first aid [1910.151](#) [\[related topic page\]](#)

Personal Protective Equipment, Subpart I

- General requirements [1910.132](#) [\[related topic page\]](#)
- Eye and face protection [1910.133](#)
- Respiratory protection [1910.134](#) [\[related topic page\]](#)
- Head protection [1910.135](#)
- Foot protection [1910.136](#)
- Flame Resistant Clothing [Memorandum](#)

Toxic and Hazardous Materials, Subparts H and Z

- Hazardous materials [1910 Subpart H](#)
 - Flammable liquids [1910.106](#)
 - Storage and handling of liquefied petroleum gases [1910.110](#)
 - Hazardous waste operations and emergency response [1910.120](#)
- Toxic and hazardous substances [1910 Subpart Z](#) [\[related topic page\]](#)
 - Air contaminants [1910.1000](#)
 - Bloodborne pathogens [1910.1030](#) [\[related topic page\]](#)



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

- Hazard communication [1910.1200](#) [related topic page]

Materials Handling and Storage, [Subpart N](#)

- Handling materials - general [1910.176](#)
- Powered industrial trucks [1910.178](#)
- Slings [1910.184](#)

Fire Protection and Welding, [Subparts L and Q](#)

- Fire protection [1910 Subpart L](#)
 - Portable fire extinguishers [1910.157](#) [related topic page]
 - Employee alarm systems [1910.165](#)
- Welding, cutting, and brazing [1910 Subpart Q](#)
 - General requirements [1910.252](#) [related topic page]
 - Oxygen-fuel gas welding and cutting [1910.253](#)

Machinery: Large and Small, [Subparts O and P](#)

- Machinery and machine guarding [1910 Subpart O](#)
 - General requirements for all machines [1910.212](#) [related topic page]
 - Abrasive wheel machinery [1910.215](#)
 - Mechanical power-transmission apparatus [1910.219](#)
- Hand and portable powered tools and other hand-held equipment [1910 Subpart P](#)
 - Hand and portable powered tools and equipment, general [1910.242](#) [related topic page]

Electrical, [Subpart S](#)

- General [1910.303](#) [related topic page]
- Wiring design and protection [1910.304](#)
- Wiring methods, components, and equipment for general use [1910.305](#)
- Hazardous (classified) locations [1910.307](#)
- Training [1910.332](#)
- Selection and use of work practices [1910.333](#)
- Use of equipment [1910.334](#)
- Safeguards for personnel protection [1910.335](#)

Construction ([29 CFR 1926](#))

- *Welding and Cutting - Subpart J*
- *Electrical - Subpart K*
- *Scaffolds - Subpart L*
- *Fall Protection - Subpart M*
- *Hoists, Elevators, and Conveyers - Subpart N*
- *Excavations - Subpart P*
- *Cranes and Derricks in Construction - Subpart CC*

Section 6: Orientation

Every worker shall complete the Pulsar Helium Safety Orientation before beginning any work on a Pulsar Helium site or project. This orientation will cover general health and safety information, as well as company-specific rules and procedures. After completing the orientation, a record of your completion will

Uncontrolled copy if printed.

08/04/2024 v.5.1

Valid on day of printing only.

September 4, 2024



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

be available in the Pulsar Helium Safety Management System.

Section 7: Communication

Effective communication is crucial for ensuring the safety of all personnel involved in seismic survey operations. Different scenarios may require various communication methods:

1. Two-Way Radios:
 - Scenario: In case of a sudden severe weather event, use two-way radios to quickly inform all teams, instruct them to seek shelter, and confirm their safety.
2. Mobile Phones:
 - Scenario: During a medical emergency requiring immediate evacuation, use mobile phones to coordinate with medical facilities, emergency services, and onsite personnel.
3. Satellite Phones:
 - Scenario: In remote areas with limited or no cellular coverage, satellite phones are essential for maintaining communication with headquarters, emergency responders, and field teams, especially during critical incidents.
4. Verbal Face-to-Face Communication:
 - Scenario: When electronic communication is not feasible, direct verbal communication is crucial. For example, during a fire evacuation, team leaders should use face-to-face communication to provide clear instructions and ensure immediate action.
5. Signal Flags and Visual Signs:
 - Scenario: In noisy environments or where electronic communication is ineffective, use signal flags or visual signs to convey immediate instructions, such as indicating safe zones or hazardous areas.
6. Emergency Notification Systems:
 - Scenario: Use automated emergency notification systems to send alerts via SMS, email, or loudspeakers, providing real-time updates and instructions during events such as natural disasters or security threats.

Redundant communication methods should be established, and all personnel should be trained in their use and the protocols for each scenario. Regular drills and training sessions should include these communication tools to ensure preparedness.

Section 8: Insect and Wildlife Hazard Mitigation

As part of our ongoing commitment to safety, we want to make all contractors aware of the potential insect and wildlife hazards associated with the Pulsar Helium projects in Minnesota. It is crucial to understand these hazards and ensure that appropriate measures are in place to mitigate risks to personnel health and safety.

Insect Hazards

1. West Nile Virus and Mosquitoes: Mosquitoes in the area may carry West Nile Virus, which can cause symptoms ranging from mild flu-like conditions to severe neurological complications.



Site Specific Safety Plan

Seismic Acquisition and Staging on Jetstream #1

2. Tick-Borne Diseases: Ticks in Northern Minnesota can transmit diseases such as Lyme disease and anaplasmosis. These conditions require prompt identification and treatment to prevent serious health outcomes.
3. Other Insects: Bites from insects like bees, wasps, and spiders may lead to allergic reactions or other health concerns.

Wildlife Hazards

1. Large Predators (Bears, Wolves): The area may host bears and wolves, which can pose risks if encountered, particularly if they are attracted to food or feel threatened.
2. Small Mammals (Mice): Mice can be carriers of diseases such as hantavirus, which can be transmitted to humans.
3. General Wildlife: Various wildlife encounters can result in injuries or the transmission of zoonotic diseases.

Contractor Responsibilities

Contractors are responsible for understanding these hazards and ensuring their teams are prepared. It is expected that contractors will develop and implement safety measures, including educating their workers on the risks associated with insect bites, tick-borne illnesses, and wildlife encounters. Proper food storage and waste management practices are essential to minimize the attraction of wildlife to work areas.

Section 9: Posting of the SSSP

This SSSP must be posted in the following locations:

- At the gate guard station at the entrance to the site (when applicable).
- In the Pulsar Helium Site Supervisor's office or truck, on the wall near the entrance door(s).
- In the job folder if a trailer is not available.
- In the site Manager's office, near the entrance door.
- In the doghouse.