

Invenergy	DEUEL COUNTY WIND ENERGY CENTER	Version: 2.0
	EMERGENCY RESPONSE PLAN	Issued: 5/28/21

EMERGENCY RESPONSE PLAN – Deuel Harvest WIND ENERGY CENTER
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LIST OF ACRONYMS AND ABBREVIATIONS

AED	Automated External Defibrillator
DHEC III	Deuel Harvest Wind Energy Center
CPR	Cardiopulmonary Resuscitation
CFR	Code of Federal Regulations
EC	Energy Center
EEE	Emergency Escape Equipment
EHS	Environmental, Health, and Safety
EPA	U.S. Environmental Protection Agency
ERP	Emergency Response Plan
WT	Wind Technician
Invenergy	Invenergy Services LLC
SDS	Safety Data Sheet
MW	Megawatt
NRC	National Response Center
O&M	Operation and Maintenance
OSHA	Occupational Safety and Health Administration
PPE	Personal Protective Equipment
RQ	Reportable Quantity
SCBA	Self-Contained Breathing Apparatus
SPCC	Spill Prevention, Control, and Countermeasure
WTG	WindTurbineGenerator

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1. PURPOSE:

1.1. The following emergency response procedures are provided so that all Deuel Harvest Energy Center personnel understand the practices that are to be followed to provide quick and effective response to emergencies that might arise at the facility. Because the safety of employees is of primary concern, the Deuel Harvest O&M Manager and each member of the Deuel Harvest staff are committed to providing a safe, healthy, work environment and are responsible for ensuring implementation of these procedures.

2. APPLICABILITY:

2.1. Deuel Harvest Energy Center O&M Manager and Deuel Harvest Energy Center Staff.

3. REFERENCES:

- 3.1. [Tractel Derope and TSL SRK-11 Use](#)
- 3.2. [JHA - Inclement Weather](#)

4. INTRODUCTION:

4.1. Facility Description

4.1.1. Deuel Harvest Wind Energy Center is located in Gary, Deuel County, South Dakota, and is owned by Deuel Harvest Wind Energy LLC and operated by Invenergy Services LLC. The wind farm is comprised of (12) 2.3 MW-116 GE turbines and (97) 2.8 MW-127 GE turbines. Power will be sold to Northern States Power and Great River Energy under two long-term power purchase agreements. Attachment 15.1 provides a site drawing of the Deuel Harvest facility. Notification information for site and external support organizations (police, fire department, medical facilities, etc.) that may be called to respond to emergency situations at Deuel Harvest is included in Attachments 15.2 and 15.3. Support personnel are available on the site Monday through Friday, 7 a.m. to 3:30 p.m. The Site Manager is available via cellular phone in case of an emergency.

4.2. Plan Organization/Relationship to Other Plans

4.2.1. This Emergency Response Plan (ERP) addresses Occupational Safety and Health Act (OSHA) requirements for emergency response management and plans [29 Code of Federal Regulations (CFR) 1910.38 and 1910.120]. Section 5 of the ERP provides a description of the Deuel Harvest Energy Center Response Management System. This section includes procedures for communicating emergency situations and describes the emergency equipment and resources available for response at the Deuel Harvest Energy Center. Sections 6 through 10 provide specific procedures for response to fire, medical, chemical release, security threat, and severe weather incidents. Contractor/visitor management and training procedures are described in sections 11 and 12.

A Spill Prevention Control and Countermeasure Plan (SPCC) will be prepared separately after operations begin that addresses oil pollution prevention and spill response requirements as specified in 40 CFR Part 112.

4.3. Plan Review and Revision

4.3.1. A review of the Deuel Harvest Energy Center ERP shall be conducted and documented on an annual basis. The plan will also be reviewed and amended whenever there is a change in facility design, construction, operation, or maintenance that affects emergency response planning.

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5. EMERGENCY RESPONSE MANAGEMENT:

5.1. Overall Organization

5.1.1. Overall responsibility for the ERP lies with the Deuel Harvest Energy Center O&M Manager. The O&M Manager or Lead Technician is responsible for program implementation, including designating evacuation routes and employee assembly points, coordinating severe weather activities, communicating emergency response procedures to site personnel, contracting with emergency response organizations, and contractor coordination.

5.2. Roles and Responsibilities

5.2.1. Specific management personnel will assume leadership roles for emergency responses. The Site Manager and/or Lead Technicians will assist in the implementation of this plan by knowing and communicating evacuation routes to workers during emergency evacuation and reporting the status of the evacuation to the Fire Department. The O&M Manager is responsible for seeing that this plan is implemented and will appoint an adequate number of personnel to enforce the plan, assure everyone is familiar with this plan and act as a liaison with the local Fire Department(s).

All facility personnel have a responsibility to immediately report emergency situations to the Lead Technician on duty, who then notifies the O&M Manager and other key personnel of the situation using the Deuel Harvest Energy Center Emergency Notification Telephone List (refer to Attachments 15.2. and 15.3.). Where a Lead Technician is not assigned, facility personnel will refer to the Emergency Notification Telephone list to inform key personnel.

5.3. Preparation and Planning for Emergencies

5.3.1. Pre-planning for emergencies is a crucial element of this plan. The following steps have been taken in planning for emergency situations at the site:

- All main road exits are established and are posted in the Deuel Harvest Energy Center O&M Building.
- Evacuation route diagrams have been documented and posted in the O&M Building.
- Site personnel receive instruction to keep exits from the site or O&M Building clear and to maintain ready access to fire extinguishers by not blocking them with furniture, or any other means.
- The site O&M Manager and Lead Technicians have been trained in their specific duties. All building occupants have been instructed in actions to take in case of an emergency through their copies of procedures and training, as needed.
- A variety of emergency response drills (such as fire, tornado, bomb threat, etc.) are held on a quarterly basis, and will be documented.
- An important component of preparation and planning for emergencies should include a strategy for implementing crisis intervention and grief counseling for those affected by a traumatic event. This is addressed via resources detailed in “Red Folders” available on-site. The Regional EHS Manager or HR Department can also assist with deploying these resources when requested.

5.4. Communications

5.4.1. Timely and efficient communications are essential to deal with an emergency response situation. For that reason, the following requirements have been established at Deuel Harvest Energy Center.

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- Employees using radios/phones shall yield to individuals who are the most directly involved in an emergency response activity, i.e. emergency response takes priority over all other communication on company network.
- If radio/phone communications are interrupted or unclear, employees should proceed to the O&M Building.
- All hand-held radio/phones should be recharged daily with back-up batteries ready for use.

5.5. Emergency Response Equipment

5.5.1. A list of emergency response equipment that is available at Deuel Harvest Energy Center is provided below. Chemical spills may require the assistance of an Emergency Response Contractor who can quickly mobilize materials and equipment to address larger spills. Deuel Harvest Energy Center has planned with contractors to provide emergency response services in the event of spills and releases. Contact information is provided in Attachment 15.3.

5.5.2. Communications Equipment

- Individually issued cell phone for use by site personnel with text weather/lightning alerts.
- Radios for use by crews in field.
- Land line communication to O&M building:
- Radio communication and weather monitoring at O&M center.

5.5.3. Personal Protective Fall Protection

- Full body harness
- Fall Arrest Lanyards
- Ladder Safety device for the safe climb system

5.5.4. Personal Protective Equipment

- Rubber gloves
- Goggles
- Face shields
- Heat resistant gloves
- Leather Gloves
- 40 Cal Suits for ARC Flash
- Safety Toe Boots
- Hard Hats
- Safety Glasses
- Work gloves

5.5.5. Other Equipment maintained in either O&M Building or in crew trucks

- Tractel equipment for assisted rescue
- SRK-11 equipment for self and assisted rescue
- Shovels
- Rakes
- Tube absorbents
- Absorbent pads
- Absorbent material
- Fire extinguishers

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- First Aid kits
- AEDs

5.6. Emergency Evacuation

5.6.1. Operating Site Drills

5.6.1.1. Deuel Harvest Energy Center will conduct emergency response exercises quarterly to ensure employees are prepared to react and respond appropriately during contingency situations. Guidance for conducting these events can be found in Invenergy's [Procedure Fleet Operating Site Drills](#).

5.6.2. Evacuation Planning

5.6.2.1. Proper preparation and planning for emergencies are essential for evacuation to be effective and efficient. Quarterly drills are performed at Deuel Harvest Energy Center to familiarize employees of procedures in the event of a real emergency. The Fire Department will be requested to participate and assist with critique of evacuation drills.

Deuel Harvest Energy Center personnel are instructed on the following:

- Know at least two exits whenever possible. Some terrain features on the project do not allow for two exits and means for egress are to be addressed before tasks start in these areas.
- Be familiar with the evacuation routes posted in the O&M Building.

A Deuel Harvest Energy Center evacuation sheet must be posted and orally communicated to site personnel. It is recommended that these procedures be discussed at periodic safety meetings in addition to being covered during new employee orientation.

5.6.3. Emergency Routes

5.6.3.1. Depending upon the degree of emergency, weather and/or site conditions, roadways as designated on the site drawing (Attachment 15.1.) will be used for routes of evacuation. In the event of an evacuation, all personnel will meet at the O&M building or lay down yard for further information. If personnel are unable to make it to the designated assembly area, they should seek shelter wherever possible and contact their supervisor for further instructions.

5.6.4. Evacuation Procedures

5.6.4.1. When notified to evacuate, site personnel shall do so in a calm and orderly fashion, keeping the following instructions in mind:

- Walk, don't run. Help others who need assistance.
- Drive safely through smoke if you must.
- Watch for other traffic and farm equipment on access roads and roadways.
- Be aware of obstructed visibility depending on crop conditions (i.e. tall corn).
- Be aware of ice/snow and loose gravel conditions, drive safely.

Site personnel shall go to the primary designated assembly area which is the O&M Building. If employees are unable to make it to the assembly area, they should contact their supervisor for further instructions.

During evacuation, the O&M Manager and/or Lead Technicians should ensure that every person on his/her crew has been notified and that evacuation routes are clear. Any person with

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a disability (mobility, hearing, sight) who requires assistance to evacuate is responsible for prearranging with someone in their immediate work area to assist them in the event of an emergency. Anyone knowing of a person with a disability or injury who was not able to evacuate will report this immediately to their supervisor.

Once an evacuation is complete, the O&M Manager or Lead Technician should account for all personnel.

6. FIRE/EXPLOSION:

- 6.1. In the event of an incipient stage (beginning, small) fire, employees should notify adjacent individuals of this situation and exit the area. Only employees trained in the use of fire extinguishers should attempt to use an extinguisher. Employees are not expected or authorized to respond to fires beyond the incipient stage (i.e., fires that are beyond the beginning stage and which cannot be extinguished using a hand-held, portable fire extinguisher). If necessary, the fire department should be immediately notified by dialing 911. Site management shall also be immediately notified of any emergency.

The following actions should be taken by area personnel while awaiting the local fire department

- Make sure the immediate area of the fire is clear of personnel.
- Account for all employees, contractors, and visitors who were working in the area of the fire.
- Remove any obstructions (vehicles, material, etc.) that might impede response to the scene.
- Station available personnel at road intersections to stop traffic flow into the fire scene.

ICC operators can shut down turbines remotely on demand if necessary. In case of a fire which destroys a power line on a string of turbines, individual strings of turbines may be shut down from the substation by the Site Manager or a qualified electrical contractor.

In the event of an out-of-control fire, employees are to exit the area as quickly as possible and assemble for head count.

6.2. Response to a fire in the WTG tower

6.2.1. When all wind technicians (WTs) are up tower:

- Call the site emergency number immediately if it is safe to do so.
- If it is a small fire, try to extinguish the fire if it is safe to do so.
- If not successful or fire is growing quickly, exit the nacelle immediately to the bottom of the tower by the ladder.
- If the ladder is not accessible, exit to the outside, onto the roof of the nacelle. Close the nacelle hatch if possible. Use the SRK-11 or Tractel device to descend off the nacelle or hub to ground level. **NOTE:** The SRK-11 and Tractel must always be up tower when personnel are climbing.
- Do not use the hoist for evacuation.
- In the DTA, close the door to stop oxygen from entering the tower if safe to do so.
- Fire department and other personnel should heed wind direction and speed.

6.2.2. When only 1 technician is up tower, 2nd technician down tower:

- Technician at the bottom must call the site emergency number immediately.
- Technician at the bottom should use the fire extinguisher (if appropriate).
 - Stop as much oxygen as possible from fueling the fire (ie. close the tower door).
- Uptower tech should use the SRK-11 or Tractel device to descend from the nacelle or hub to ground level. This equipment must always be up tower when personnel are climbing or working uptower.

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- Close the hatch door of the nacelle if possible to contain the smoke/ fire inside of the tower. Stop as much oxygen from fueling the fire as possible.

6.2.3. When both technicians are at the bottom of WTG Tower:

- Call the site emergency number immediately.
- For a small fire, use the fire extinguisher if possible to put out the fire and stop as much oxygen from fueling the fire as possible.
- If you can extinguish the fire, maintain a safe distance and post a fire watch.
- If unable to extinguish, evacuate the area and maintain a safe distance.

7. MEDICAL EMERGENCY:

7.1. Medical Emergency Response Procedures

7.1.1. If an employee is injured, or an accident has occurred on site and first aid is not enough treatment for the emergency, 911 must be called. The call to 911 can be made by phone by any available site personnel. The caller must state to the dispatch that they are at the “Invenergy Deuel Harvest Energy Center” and provide the specific tower number. The local emergency response entities should have a cross reference map identifying individual tower locations. A second notification will be made to the O&M Building, to inform others of the situation.

The nearest emergency response service is from Clear Lake Fire Department, which provides both EMS and fire response services.

All Deuel Harvest EC employees are certified in first aid/cardiopulmonary resuscitation (CPR) and may administer aid if they have completed training. An automated external defibrillator (AED) and trauma bag are stored at the O&M Building and each service truck which should be utilized as necessary. Additionally, the site has a Junkin litter basket and a Yates Spec Pak to facilitate victim stabilization, tower rescue and transport.

7.2. Tower Rescue Procedures

7.2.1. See [Tractel Derope and TSL SRK-11 Use](#)

7.3. Non-Emergency Safety Incident

7.3.1. In the event a safety incident occurs where emergency response is not required (first aid treatment, near miss, etc.) work is to be stopped immediately and reported to the O&M Manager and/or Lead Technician. Risk will be reassessed, adequate controls implemented, and the situation made safe before resuming the task.

7.3.2. Follow procedure listed in the [Incident Reporting and Investigation Program](#) This will involve utilizing the Intelix system

1. CHEMICAL RELEASE:

8.1. The phases of emergency response may be categorized as follows:

- Discovery.
- Initial response / notification.
- Sustained actions.
- Termination and follow-up actions.

8.2. Discovery

8.2.1. Without entering an immediate hazard area, the employee who first discovers an emergency situation should identify the following:

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- Is there a fire, spill, or explosion?
- Does medical assistance appear to be needed?
- Who/what is at risk: people, property, or the environment?
- Where does the released chemical appear to be migrating?
- What are the weather and terrain conditions?

The employee will also isolate the area to keep people away from the scene until trained responders arrive; if it is safe to do so. An employee who has not received training in emergency response should take no actions beyond notification, isolation of the area, and personal safety precautions. Any efforts made to rescue persons, protect property, or protect the environment must be weighed against the possibility of becoming part of the problem. Persons at the scene must not walk or touch spilled material or inhale fumes, smoke, and vapors.

8.3. Initial Response/Notification Procedures

8.3.1. The initial response phase starts with notification, which activates the emergency response system.

Anyone who observes or receives information regarding an emergency at Deuel Harvest Energy Center should immediately notify available personnel using the Deuel Harvest Energy Center radio network or their issued cell phones. The O&M Manager and/or Lead Technician will then ensure 911 is notified. At Deuel Harvest Energy Center, employees are notified of emergencies by cell phone/radio, and word of mouth from the O&M Manager and/or Lead Technicians. Attachment 15.2. provides a list of emergency notification information for Deuel Harvest Energy Center personnel.

If an event has the potential to impact the local community, Deuel Harvest Energy Center will contact local fire/police to make community notifications. Attachment 15.3. also provides notification information for the Invenergy Public Affairs team who will provide guidance for instances involving media. Attachment 15.3. provides contact information for external support organizations. The O&M Manager and/or Lead Technicians will coordinate any media efforts through the Deuel Harvest Energy Center Asset Manager and Invenergy Legal Department.

Trained responders are called to the scene to begin the process of hazard assessment, establish objectives and priorities, implement a tactical plan, and mobilize resources. Trained responders may enter the area only when wearing appropriate protective gear. Only trained responders are authorized to risk exposure to chemicals for purposes of containing or stopping the material release.

The O&M Manager/Emergency Coordinator or designee will be responsible for notifying the appropriate regulatory agencies and, if necessary, the Emergency Response Contractor and/or Consultant or mutual aid groups. Attachment 15.3. is a list of offsite emergency contacts and agencies that may be notified in the event of an emergency. The incident will be documented using the Deuel Harvest Center Release Reporting Form and in the SPCC Plan in the event of an oil spill.

8.4. Sustained Actions

8.4.1. The O&M Manager is the designated Emergency Coordinator at Deuel Harvest Energy Center. In his absence, the Lead Technician assumes the lead as the Emergency Coordinator. In the event both the O&M Manager and Lead Technician are absent, their designee will assume the role of Emergency Coordinator. The Emergency Notification List in Attachment 15.2. details personnel who will assume the Emergency Coordinator role if both the O&M Manager and Lead Technician are absent. The Emergency Coordinator takes control of the emergency and any resources necessary until the emergency has been eliminated and the necessary cleanup and/or restoration are complete.

The Emergency Coordinator will direct the following activities during the evaluation process:

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- Evaluate if operations in the affected area should be shut down.
- Take precautions to prevent or limit the spread of fire or explosions.
- Isolate affected area and provides direction for radio announcements.
- Determine the source/cause of the emergency and evaluate the primary and secondary hazards to allow a full-scale, safe response.
- Ensure that appropriate internal and external notifications are made.
- Coordinate outside assistance from public or private organizations.
- Implement other appropriate response provisions as necessary.

Only employees that are properly trained in accordance with 29 CFR Part 1910.120(q)(6) may respond to chemical releases.

In the absence of properly trained and equipped emergency responders, all personnel are to evacuate and meet at a pre-designated assembly area. The Emergency Coordinator must then contact a pre-arranged spill response contractor, or contact a municipal service for hazardous material response. It is the responsibility of the Emergency Coordinator to determine whether the local municipal responders are capable of, or will in fact, respond to a release at the site. If not, a private contractor must be retained.

8.5. Post Emergency Reporting Procedures

8.5.1. Following the occurrence of a spill of a reportable quantity or any emergency situation described in this plan, and in compliance with facility permits and other County and/or State requirements, an incident report will be prepared by the O&M Manager and transmitted to the appropriate individuals and agencies after review by the Invenergy Regional EHS Manager. These incidents should be recorded using the Intelx incident management system. Additional Guidance can also be found in the site's SPCC plan.

The O&M Manager shall compile all documentation and perform a post-accident investigation. Immediate performance of this activity will aid in determining the exact circumstances and cause of the incident.

Issues to be determined include:

- Causes of the incident
- Effectiveness of the emergency response plan
- Need for amendments to the response plan
- Need for additional training programs

8.6. Deuel Harvest Energy Center Material Inventory

8.6.1. The following paragraphs describe the chemicals that are considered potential sources of release for emergency planning purposes. Additional information on site chemicals is contained on the SDS sheets available in our online 3E database, hardcopies, or in the Tier II report filed annually.

The materials that will be used and stored at Deuel Harvest Energy Center consist primarily of:

- Lubrication Oil
- Hydraulic Oil
- Transformer Oil

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8.7. Response Procedures

8.7.1. The table below provides a spill response reference for general chemical hazards. SDS sheets should be referred to for specific response measures in the event of a release.

<u>Material</u>	<u>Response Measures</u>
Flammable and combustible	Prohibit open flames, sparks, or ignition sources from area. Absorb with absorbent material. Due to viscosity, oils and flammable sludge may require collection by high suction pumps. For large oil spills, use sand as absorbent. Collect all spills in appropriate containers. Cover, label, and store properly.
Solvents (nonflammable)	Absorb with absorbent material. Due to viscosity, solvent sludge may require collection by high suction pumps. Collect spill appropriate container. Cover, label, and store properly.

Small-Volume Spills:

Sprinkle with neutralizer until bubbling reaction ceases. Collect in appropriate container with vacuum or shovel. Cover, label, and store properly.

Large-Volume Spills:

Contact Emergency Coordinator.

Absorb with absorbent material. Collect in appropriate container. Miscellaneous chemicals: Cover, label, and store properly. Deuel Harvest Energy Center personnel are assigned the responsibility of assisting in accomplishing these initial response measures. Only trained responders are authorized to risk exposure to chemicals for purposes of containing or stopping material releases.

9. SECURITY THREAT:

9.1. Bomb Threat

9.1.1. The purpose of this plan is to give direction to all site staff in the event Deuel Harvest Energy Center is a target of an actual or threatened bomb assault/attack.

Anyone receiving a bomb threat shall:

- Treat the caller with courtesy and respect. Complete the Bomb Threat Report (Attachment 15.4). Use this sheet as a reference while talking with the caller making the threat.
- Attempt to obtain as much information as possible. See the “Bomb Threat Checklist” (Attachment 15.5).
- Immediately notify the Deuel Harvest Energy Center Emergency Coordinator by phone. Stop all radio transmissions from this point on until cleared by the Emergency Coordinator or other competent authority. Radio transmissions can activate electronic detonating or timing devices.

The Emergency Coordinator will immediately notify 911. The Emergency Coordinator shall:

- Evaluate the threat and determine the appropriate course of action to take.
- Notify law enforcement and/or ambulance.
- Evacuate the facility as necessary.
- Coordinate evacuation of any part of the surrounding community with local authorities as needed.
- Coordinate search of the site with proper authorities.

9.1.2. If any suspicious item(s) are found, they are not to be touched. Barrier tape will be used to mark the area where the suspicious item(s) are by extending a continuous line of tape beginning immediately in front

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of the suspicious item(s) and extending to just outside the room exit. This will help guide local authorities to the suspicious item.

The Emergency Coordinator will ensure that the “All Clear” message is communicated once the threat has passed or is no longer present.

9.2. Chemical/Biological Agent Threat

9.2.1. The procedures described previously for a bomb threat should be used for a chemical or biological agent threat. Refer to Attachment 15.6. for a copy of the phone report when receiving such a threat and Attachment 15.7. for a checklist.

9.3. Sabotage

9.3.1. The purpose of this plan is to guide site staff in procedures to follow when detecting any intentional act that could cause damage or injury to people or property.

This emergency procedure will be implemented by the Emergency Coordinator when, in his opinion, any act has occurred or is about to occur which could likely cause injury or mass destruction to personnel or property.

- Anyone detecting any act or threat of any act of sabotage will immediately notify the site manager or their designated lead.
- The Emergency Coordinator will be immediately notified of this information. The Emergency Coordinator will evaluate the situation and decide what actions to take.
- The following options should be considered and/or implemented:
 - Notification of 911.
 - Evacuation of the facility.
 - Evacuation of any part of the surrounding community.
 - Take corrective action as required, providing that no person will risk injury.

10. SEVERE WEATHER:

10.1. Severe weather (thunderstorm, tornado, flash floods) can occur with minimal notice based on local weather conditions. A DTN weather satellite is monitored via computers at the Deuel Harvest Energy Center O&M Buildings. ICC operators (Chicago) also monitor this system and will contact O&M office if inclement weather is threatening. Employees are immediately notified to evacuate the site, or to take cover. In addition, Deuel Harvest Energy Center employees are automatically notified via text message when lightning occurs within 50 miles of the site, and again within 30 miles. The site is also notified via text message when lightning occurs within 15 miles of the substation.

In the case of a severe storm approaching Deuel Harvest Energy Center, the following steps are to be taken:

Severe Storm Warning (1 to 24 hrs notice)

- Employees should make sure that all materials and equipment are secured.
- All crane booms shall be lowered to the ground and secured.
- All small vehicles, welding machines and compressors shall be secured.
- Storm will be monitored and, if necessary, site shall be evacuated.

10.2. Lightning

10.2.1. Once lightning is observed within 50 miles, personnel up tower will start getting tools and equipment together to prepare to evacuate. Towers will be evacuated when lightning is within 30 miles. If lightning is observed within 15 miles of the substation personnel will evacuate.

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Employees are to evacuate any towers they are working in when given the signal from the ICC Operator, Lead Technician, or O&M Manager, and take cover in vehicles or trailers. Water, high ground, open spaces, solitary tall trees, and metal objects should be avoided. If shelter is not available, employees should follow these precautions:

- Crouch down with both feet together. Do not lie down or place hands on the ground.
- Do not stand near other people. Keep a minimum distance of 15 feet apart.

If inside a shelter:

- Stay away from doors, windows and avoid water.
- Turn off and unplug electrical appliances (e.g., computers, power tools). If appliances cannot be unplugged (e.g., telephones), stay away from them.

Persons injured by lightning do not carry an electrical charge and can be handled safely. Administer first aid/cardiopulmonary resuscitation (CPR) to a lightning victim if you're qualified to do so. Send for help immediately.

10.2.2. In the event of lightning during substation work, reference [JHA - Inclement Weather](#)

10.3. High Wind

10.3.1. When high winds occur, seek shelter immediately. Remember that loose materials can become airborne. No work is allowed in the hub when there are steady winds of 15m/s (33.5mph), or over a 10-minute average or more. If personnel are up-tower, no work is allowed outside the nacelle if there are steady winds of 20m/s or over a 10-minute average. Personnel are not allowed to enter the WTG if there are steady winds of 25 m/s or over a 10-minute average.

10.4. Tornadoes

10.4.1. Tornadoes can affect the area of the Deuel Harvest Energy Center project. In the event of a severe storm, work will be stopped. If the National Weather Service alerts a Tornado Warning, employees will take proper shelter. The above ground tornado shelter is located inside of the O&M Building. If a tornado warning is activated in a neighboring county, and weather service has forecasted the tornado traveling towards the project, employees should secure essential equipment. The O&M Manager and/or Lead Technician may dismiss employees from the site if conditions warrant it.

Tornados can strike with little warning, so prepare before severe weather moves into your area. Learn the tornado warning signals used in your community. The most common warning is a siren, which means you should stay inside and take cover immediately. If warning signals are not available, look for these signs of danger: Dark, greenish skies, large hail, rotating low-altitude cloud, and/or loud roar, like a train.

10.4.1.1. **Tornado Watch** - issued when conditions are favorable for the development of tornados, people located in and around the watch area should keep an eye to the sky and listen to a NOAA weather radio and/or local broadcast media for further weather information. The watch is intended to give you time to prepare, time to review safety rules, and the site emergency response plan.

10.4.1.2. **Tornado Warning** - issued when a tornado has been detected by national weather service Doppler radar or a reliable report has been received. A warning is usually issued for portions of one or two counties, for an hour or less. If the warning includes your neighborhood or work place, you should take immediate action to protect your life and the lives of others.

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10.4.1.3. **Home/Office:** The safest place to be during a tornado is underground or in a designated tornado shelter within the office. If there is no basement or cellar in your home, go to a small interior room on the lowest level, such as a bathroom, closet, or hallway; the more walls between you and the outside, the better. Avoid taking shelter in rooms with windows, however keep all windows shut. Mobile/Manufactured homes are not built to weather tornadoes, so seek shelter elsewhere at the first sign of severe weather. For example, go to a prearranged community shelter or make plans to stay with a friend or relative. As a last resort, go outside to a low area and lie flat on the ground with your hands over your head and neck; be alert for flash floods and hail, which often accompany severe storms.

10.4.1.4. **Vehicles:** Do not try to outrun a tornado. If you see a funnel cloud or hear a tornado warning, get out of your vehicle and seek shelter in the nearest sturdy, enclosed building. If such a shelter is not available, lie down in a low area with your hands covering your head and neck; be alert for flash floods.

10.4.2. **Plan Ahead**

10.4.2.1. To prepare for a tornado, put together a disaster emergency kit and conduct tornado drills at work and in your home. Make sure each family member knows the tornado safety procedures for their workplace or school.

Don't forget to let nearby neighbors and family know where your storm shelter is and how to access it in case the exit is blocked by debris, preventing you from getting out.

Listed below are a few items to keep in your storm shelter:

- **Basic medicine:** Keep a first-aid kit stocked with basic antiseptic gels, pain relievers, antibiotics and other basic medications in the storm shelter. Change out the medicines when they are nearing an expiration date.
- **Drinking water to last for short stay:** Always keep water in the storm shelter. Change it out regularly to prevent stagnation and use options that are designed to maintain a long shelf-life, like bottled water that is treated to last for an extended period.
- **Flashlights and batteries:** Flashlights are useful. Keep several flashlights and many batteries in the storm shelter. These will provide light during a power outage, especially if a backup generator does not work for any reason.
- **Cell phone, battery-operated charger and extra batteries:** Even though cellular service may be down during and after the storm, eventually it will come back up. Keep a cell phone, extra batteries and a battery-operated cellphone charger so that it is possible to send out a call for help if debris, snow or other items are not possible to move.
- **Battery operated radio:** In the case that power is lost, have a battery-operated radio on hand to keep up to date on the local weather surroundings.

10.5. **Flash Floods**

10.5.1. Flash floods pose potential problems at Deuel Harvest Energy Center. During a rain event, seek high ground. Flash floods can trap employees at low level areas. Employees are to only travel through

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minimal moving water if they MUST. Otherwise, if water poses no further danger, they are to stay on high ground until the water subsides. Generally driving near swollen creeks, rivers and natural waterways in the area will be performed with caution.

11. CONTRACTOR/VISITOR COORDINATION:

11.1. It is the responsibility of the O&M Manager to work with contractor safety supervisors to ensure that the requirements of this plan are carried out. If the contractor intends to handle spills with an in-house team, copies of applicable training records must be provided by the contractor for review prior to beginning work. Please refer to Chapter 3 of the EHS Manual regarding Contractor and Visitor management for additional guidance.

6. TRAINING:

12.1. The Deuel Harvest Energy Center O&M Manager is responsible for directing annual drills on all shifts and providing ERP training to all Deuel Harvest Energy Center employees at least annually. The ERP will also be reviewed with each affected employee when: (1) the plan is developed or when the employee is assigned initially to a job, (2) when the employee's responsibilities under the plan change, and (3) when the plan is changed.

Training and/or refresher of the ERP to site personnel shall be conducted annually. Documentation of ERP training is maintained in site files.

5. RESPONSIBILITIES:

13.1. O&M Manager

13.1.1. Deuel Harvest Energy Center O&M Manager is responsible for understanding and adhering to the procedure.

13.2. Deuel Harvest Energy Center Staff

13.2.1. All Deuel Harvest Energy Center Staff are responsible for understanding and adhering to the procedure.

5. DATA RETENTION:

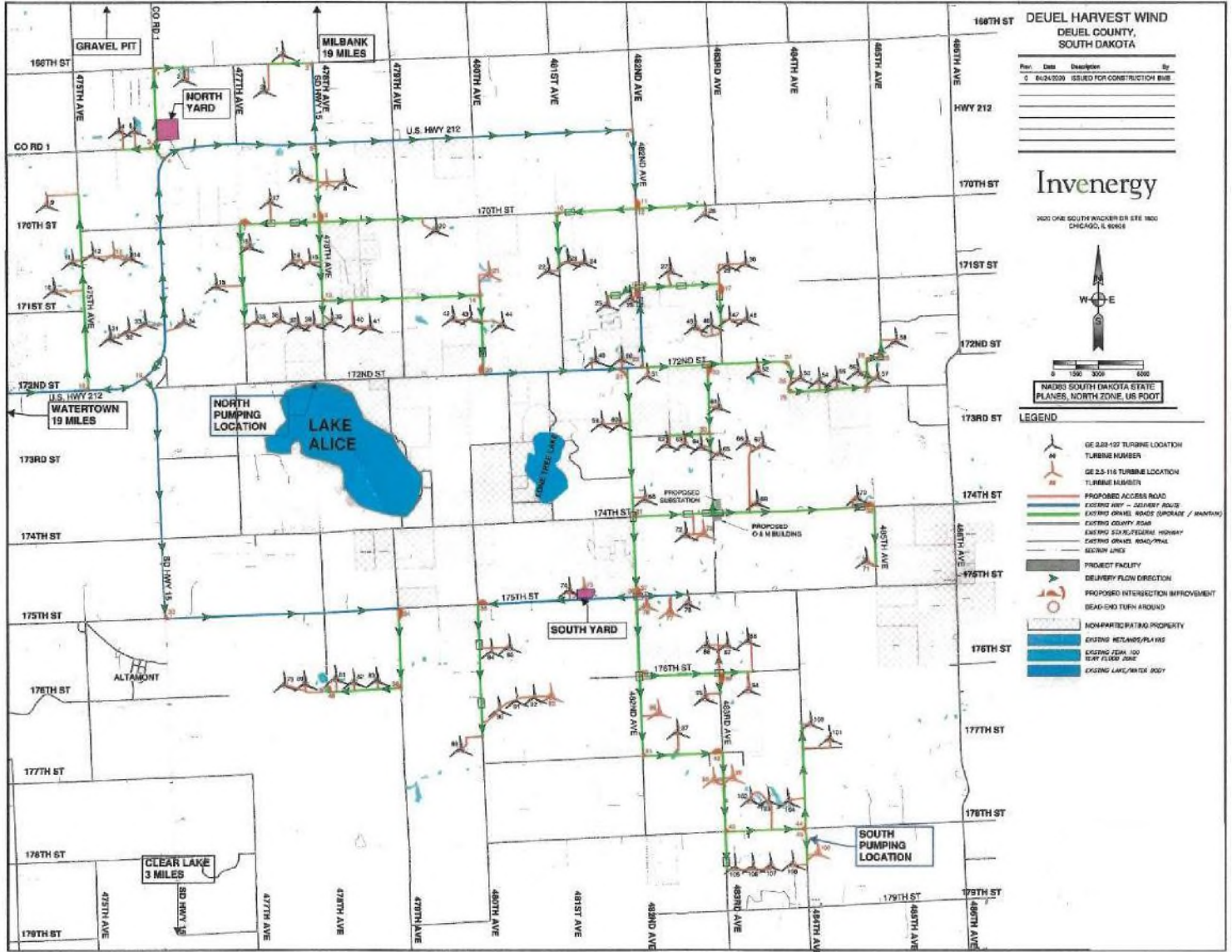
14.1. None

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15. ATTACHMENTS:

- 15.1. Site Location/Layout Map
- 15.2. Deuel Harvest Wind Energy Center Emergency Notification List
- 15.3. External Notification List
- 15.4. Bomb Threat Report
- 15.5. Bomb Threat Checklist
- 15.6. Chemical/Biological Agent Threat Report
- 15.7. Chemical/Biological Agent Threat Checklist

Attachment 15.1: Site Location Map



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Attachment 15.2: Deuel Harvest Wind Energy Center Emergency Notification List

TITLE	INDIVIDUAL	TELEPHONE NUMBER
O&M Manager / Emergency Coordinator	Jordan Bittner	(605) 237-5993 - Cell
Site Safety Rep	Jarred Pohlman	(605) 496-3094 - Cell
Lead Technician	Jarred Pohlman	(605) 496-3094 - Cell
Regional EHS Manager / Alternate Emergency Contact	Andrew Poulsen	(509) 899-4176 - Work
Invenergy Regional Director	Luke Hinkle	(531) 484-2668 - Office
Invenergy Asset Manager Deuel Harvest	Nicole Chick	(312) 429-2541- Cell
Invenergy Control Center	ICC Operator on Duty	(312) 582-1588

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Attachment 15.3: External Notification List

Organization	Telephone Number
OFFSITE EMERGENCY ASSISTANCE	
Fire/Police/Ambulance	911
Deuel County Sherriff Department	911
Sanford Clear Lake Medical Center 701 3 rd Ave S Clear Lake, SD 57226	Non-emergency: (605) 874-8212
	(605) 874-2141
EMERGENCY SPILL RESPONSE CONTRACTOR	
Safety-Kleen Systems	888-375-5336
ADDITIONAL ASSISTANCE	
FBI 325 S 1st Ave Sioux Falls, SD 57104	(605) 334-6881
ADDITIONAL ASSISTANCE	
South Dakota Poison Center	800-222-1222

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Attachment 15.4: Bomb Threat Report

Exact words of caller: * * * KEEP CALLER ON THE LINE AS LONG AS POSSIBLE! * * *

Questions to ask the caller:					
1.	When is the bomb going to explode?	_____			
2.	Where is the bomb right now?	_____			
3.	What kind of bomb is it?	_____			
4.	What does the bomb look like?	_____			
5.	Why did you set the bomb?	_____			
6.	Where are you calling from?	_____			
7.	What is your name?	_____			
Try to determine the following					
IDENTITY:	male	female	adult	juvenile (age? _____)	
VOICE:	loud	high-pitched	deep	raspy	pleasant
	disguised	broken Other: _____			
ACCENT:	local	not local	foreign	regional _____	
RACE:	Caucasian	Black	Hispanic	Oriental	
	Other: _____				
SPEECH:	educated	average	illiterate	obscene	
	Other: _____				
MANNER:	calm	angry	rational	irrational	coherent
	incoherent	deliberate	self-righteous	laughing	intoxicated
BACKGROUND NOISES:					
	office machines	factory machines	bedlam	trains	quiet
	voices	mixed sounds	airplanes	music	traffic
	party	Other: _____			
If the voice is familiar to you, who did it sound like? Additional Information: _____					
Date / / Time: ____ : ____ a.m./p.m. Received by: _____					

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Attachment 15.5: Bomb Threat Checklist

Mail Threat:
1. Handle documents as little as possible to preserve fingerprints.
2. Hand deliver immediately to O&M Manager.
Phone Threat:
3. Complete Bomb Threat Form.
4. Deliver completed form to O&M Manager.
5. Notify Supervisor immediately.
O&M Manager:
6. Gather all information regarding threat.
7. Decide upon course of action.
8. Coordinate searches with proper authorities.
Suspicious Objects:
9. DO NOT TOUCH OR ATTEMPT TO MOVE!
10. Notify County Sheriff—911.
Evacuation:
11. Announce over radio or phone system, give location where to assemble. Do not use the radio.
12. Enlist volunteers to remain and shut down site.
Re-entry:
1. Determined based on:
a. "All-clear" given by bomb disposal unit.
a. O&M Manager's judgment that danger is passed.
2. Full report prepared.

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Attachment 15.6: Chemical/Biological Agent Threat Report

KEEP CALLER ON THE LINE AS LONG AS POSSIBLE					
Exact words of caller:					

What chemical or biological agent is it? _____					
Questions to ask the caller:					
1. _____					
2. When is the agent going to be released? _____					
(date) (time)					
3. Where is it right now? _____					
(Building) (Floor) (Room)					
4. Who put it there? _____					
1. What does it look like? _____					
2. What will cause it to spread? _____					
3. What will trigger it? _____					
4. Where did you get the agent? _____					
5. Why are you doing this? _____					
6. What is your name? _____					
7. What is your telephone number and address? _____					
Try to determine the following					
<u>IDENTITY:</u>	male	female	adult	juvenile (age? ____)	
<u>VOICE:</u>	loud	high-pitched	deep	raspy	pleasant
	disguised	broken	Other: _____		
<u>ACCENT:</u>	local	not local	foreign	regional: _____	
<u>RACE:</u>	Caucasian	Black	Hispanic	Oriental	
	Other: _____				
<u>SPEECH:</u>	educated	average	illiterate	obscene	
	Other: _____				
<u>MANNER:</u>	calm	angry	rational	irrational	coherent
	incoherent	deliberate	self-righteous	laughing	intoxicated
<u>BACKGROUND NOISES:</u>					
	office machines	factory machines	bedlam	trains	quiet
	voices	mixed sounds	airplanes	music	traffic
	party	Other: _____			
If the voice is familiar to you, who did it sound like? _____					
Additional Information: _____					

Date / / Time: ____ : ____ a.m./p.m. Received by: _____					

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Attachment 15.7: Chemical/Biological Agent Threat Checklist

Mail Threat:
<input type="checkbox"/> 1. Handle documents as little as possible to preserve fingerprints. <input type="checkbox"/> 2. Hand-deliver immediately to O&M Manager.
Telephone Threat:
<input type="checkbox"/> 1. Complete the Chemical/Biological Threat Report form. <input type="checkbox"/> 2. Deliver completed form to O&M Manager immediately.
O&M Manager:
<input type="checkbox"/> 1. Gather all information regarding threat. <input type="checkbox"/> 2. Decide upon course of action.
Searches:
<input type="checkbox"/> 1. Comprehensive—To be conducted by trained law enforcement personnel only.
Suspicious Objects:
<input type="checkbox"/> 1. Do not touch or attempt to move. <input type="checkbox"/> 2. Notify police.
Evacuation:
<input type="checkbox"/> 1. Make a site-wide announcement and give location where to assemble. <input type="checkbox"/> 2. Enlist volunteers to remain and shut down site.
Re-entry:
<input type="checkbox"/> 1. Determined based on: <input type="checkbox"/> a. “All-Clear” given by competent authority. <input type="checkbox"/> b. O&M Manager’s judgment that danger has passed. <input type="checkbox"/> 2. Full report prepared.

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Version	Description:	Date:
1.0	Original Document	1/12/21
2.0	Corrected turbine count in section 4.1.1	5/28/21