CPCCo Central Plateau Cleanup Company

One Focus · One Mission · One Hanford

Administrative Procedure

CPCC-PRO-SH-28034

PRC-PRO-SH-28034

Adverse Weather

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Technical Authority: Coffland, Katherine
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- Solid Waste Operations Complex :
  Categorical Exclusion: GCX-2 (Editorial Changes)
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- Canister Storage Building/Interim Storage Area :
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- Central Plateau Surveillance and Maintenance :
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Change Summary

Description of Change

Editorial change consists of updating company terminology (CHPRC to CPCCo) and referenced documents (PRC to CPCC), as well as an update to the current procedure templates, including spell check and updated table of contents.

1.0 INTRODUCTION

1.1 Purpose

At Hanford, and throughout southeastern Washington, seasonal weather conditions are typically very stable. However, on occasion, severe storm fronts pass through the region, which may be accompanied by lightning strikes, high winds, snow, or torrential rains. A microclimate is a local atmospheric zone where the climate differs from the surrounding area. The term may refer to relatively small areas and can also cover larger areas of many square miles. Microclimates may exist on the Hanford Site and need to be recognized and communicated by Central Plateau Cleanup Company (CPCCo) management.

Since such weather phenomena occur infrequently and often appear quite suddenly, it is incumbent upon CPCCo Team management and employees to plan for exposure to these conditions when performing outdoor work activities.

1.2 Scope

The CPCCo management team is responsible for providing the tools, resources and support necessary to create a safe work environment for all employees. This responsibility includes implementing the following adverse weather safety policies. Facility and project managers will ensure that a means to communicate appropriate guidance to subordinate managers and supervisors is in place when adverse weather conditions exist.

NOTE: *Real-time weather information is available from the Hanford Meteorological Station (HMS) web site and/or by telephone from the "On-duty Forecaster" at 373-2716. During the hours HMS is not available, contact the National Weather Service; Pendleton, Oregon, (NWS-PDT) weather forecast office at (541)276-7832 for necessary real-time weather information.*

1.3 Applicability

This procedure is applicable to CPCCo Team employees performing CPCCo work scope.

1.4 Implementation

This procedure is effective upon publication.

2.0 RESPONSIBILITIES

All responsibilities associated with this procedure are identified in the process steps.

3.0 PROCESS

Actionee	*Step*	*Action*
Employee	1.	TAKE ownership of his/her personal safety during adverse weather conditions, as well as for the safety of those with whom they work.
	2.	Every employee is accountable to:
		a. COMPLY with direction and policy relating to adverse weather safety.
		b. RECOGNIZE job hazards and associated controls when working outdoors during adverse weather conditions.

3.1 Lightning Safety

Actionee	*Step*	*Action*
Management	1.	ENSURE safe work measures are established and implemented when lightning is detected within specified range of the Hanford Site by the HMS or the NWS-PDT. At a minimum:
		a. SUSPEND all elevated outdoor CPCCo work activities (e.g., work associated with the use of forklifts, dump trucks, elevated booms [e.g., cranes, drilling/telescopic forklift masts], aerial lifts [e.g., JLGs], scaffolds, ladders, etc.) when lightning is detected within a 50-mile radius of the work location. This includes any equipment that has a boom or capability of extending any part to an elevation greater in height than the equipment cab (e.g., raising dump truck beds or roll-on/roll-off containers, but does not apply to driving those vehicles).
		b. SUSPEND all outdoor CPCCo work when lightning is detected within a 10-mile radius.
		c. DEVELOP <u>AND</u> IMPLEMENT appropriate administrative and engineering controls to protect employees from lightning hazards where essential CPCCo work activities cannot be suspended (e.g., critical operations and emergency response).
	2.	OBTAIN confirmation from HMS or NWS-PDT that lightning hazards are no longer detected within the applicable radius (e.g., 10-mile, 50-mile) of the work area prior to recommencement of affected work activities.
	3.	CONSULT with Safety, and others as appropriate, to assure the hazards have been abated.
	4.	USE caution when declaring a return to work after the absence of thunder and lightning have been observed for 30 minutes.

3.2 Wind Conditions

Actionee	*Step*	*Action*
Management	1.	ENSURE worksite hazard analysis is performed and safe work measures are established and implemented when windy conditions are reported or detected either by the HMS, NWS-PDT, or onsite wind monitoring instrument, as follows:
		a. CONTROL radiological material/activities in windy conditions in accordance with facility or project specific requirements.
		b. CONSULT with an occupational safety professional for assistance when sustained winds exceed 15 mph.
Occupational Safety Professional		c. SUSPEND operation of mobile cranes and other material lifting/ hoisting/moving equipment during periods of high wind conditions (defined as sustained winds at 25 mph or greater and/or gusts meet or exceed 35 mph).
Management		d. DO NOT USE personnel platforms/aerial lifts to perform work when sustained winds exceed the limit established by the manufacturer for safe work performance. • If manufacturer's instructions do not address a maximum wind speed for safe use of the equipment, then do not use to perform work if sustained winds exceed 20 mph. It is permitted to relocate the aerial lift if movement is performed with the basket in the lowest possible position for safe movement.
		e. When wind conditions (sustained or gusts) are forecast to reach 25 mph, MAINTAIN work sites in a safe status by securing and anchoring loose or lightweight materials and objects, debris, tools, and equipment.
		f. At wind speeds of 25 mph and /or gusts to 35 mph, SUSPEND work on roofs and elevated surfaces (e.g., scaffolds, ladders) <u>AND</u> LIMIT other work to those activities specifically evaluated for continuing safe operation (including parallel and side wind impacts) and approved by the Project Vice President.
	2.	When dust cloud conditions are visible, CONTACT the responsible industrial safety and health representative for specific actions (e.g., PPE requirements) and recommendations based on locations, work performed, and expected job duration.

Actionee	*Step*	*Action*
All Employees	3.	For sustained wind speeds exceeding 20 mph, WEAR appropriate eye protection, as follows: • Personnel performing work outdoors are <u>required</u> to wear safety goggles. • Personnel transitioning from one work location to another work location, or traveling between buildings, are <u>recommended</u> to wear safety goggles.

3.3 Snow/Ice Safety

Actionee	*Step*	*Action*
Management	1.	When hazardous snow/ice conditions are reported or detected, ENSURE safe work measures are established and implemented. At a minimum: • Snow and icy conditions will be monitored by CPCCo management, the HMS, and the Hanford Patrol. • Conditions and precautions to be taken by employees will be communicated using established employee notification and communications processes and procedures.
	2.	COMMUNICATE to all CPCCo and CPCCo contractor employees, as/when appropriate, the content of the Snow Removal Plan for the Hanford Site. This plan, developed and maintained by Transportation Services, addresses snow removal from CPCCo-maintained roads, parking lots, and walkways, and includes emergency points of contact.

NOTE: *Upon arrival to the workplace, employees may shovel snow from doorways and/or place ice melt within their physical capabilities.*

All Employees	3.	STAY on cleared paths or walkways, where available.
	4.	REPORT to supervisor/manager any areas of concern that appear to pose a weather-related hazard (e.g., slippery, uneven, etc.). • During inclement weather conditions, elevated work that requires the use of fall protection is to be evaluated or stopped due to increased overall hazard potential in accordance with DOE-0346, *Hanford Site Fall Protection Program (HSFPP)*.

3.4 Torrential Rain and Hail Safety

Actionee	*Step*	*Action*
Management	1.	During periods of torrential rains and hail storms, EVALUATE AND MINIMIZE operation of government vehicles and equipment, where possible.

3.5 Early Release Due to Adverse Weather

Actionee	*Step*	*Action*
Management	1.	When early release is required due to localized extraordinary conditions such as high winds, snow/ice, or other conditions that could potentially affect the health and safety of personnel or preclude personnel from safely occupying a facility, building, or groups of buildings, IMPLEMENT CPCC-PRO-EM-8951, *Early Release for Localized Extraordinary Conditions*.

4.0 FORMS

None

5.0 RECORD IDENTIFICATION

None

6.0 SOURCES

6.1 Requirements

ASME B30.23, *Personnel Lifting Systems*

6.2 References

CPCC-PRO-EM-8951, *Early Release for Localized Extraordinary Conditions*

DOE-0346, *Hanford Site Fall Protection Program (HSFPP)*

DOE-RL-92-36, *Hanford Hoisting and Rigging Manual*

Snow Removal Plan for the Hanford Site