

Administrative Procedure

CPCC-PRO-SH-28034

PRC-PRO-SH-28034

Adverse Weather

Revision 2, Change 0

Published: 07/01/2024

Effective: 07/01/2024

Program: Occupational Safety and Industrial Hygiene

Topic: Occupational Safety and Industrial Health

Technical Authority: Steelhammer, Jacob G

Functional Manager: Foster, Andrew L

Use Type: Administrative



USQ Facility	USQ Review	Screener
105 KW Facility	(Screening/Determination Performed (no issues)) 0079-2024	Meyer, Matthew F
324 Building	GCX-8 (Not in Safety Basis Compliance Matrices)	Garrett, Robert J
Below HazCat 3	Exclusion Reason: <i>N/A per Section 1.3.</i>	
Canister Storage Building/Interim Storage Area	GCX-8 (Not in Safety Basis Compliance Matrices)	Lelli, Joseph D
Capsule Storage Area	GCX-8 (Not in Safety Basis Compliance Matrices)	Garrett, Robert J
D4ES-Central Plateau	GCX-8 (Not in Safety Basis Compliance Matrices)	Griebel, Scott D
Solid Waste Operations Complex	GCX-8 (Not in Safety Basis Compliance Matrices)	Masulonis, John U
Transportation	Exclusion Reason: <i>N/A per Section 1.3</i>	
Waste Encapsulation Storage Facility	GCX-8 (Not in Safety Basis Compliance Matrices)	Garrett, Robert J

JHA: Administrative

Periodic Review Due Date:02/16/2028

Rev. 2, Chg. 0

Change Summary

Description of Change

Updated section 3.1 Lightning Safety to include structures built with scaffolding. Updated section 3.4 Torrential, Heavy, or Extended Periods of Rain and Hail Safety to evaluated occupied facilities for rain water intrusion.

Adverse Weather

Published Date: 07/01/2024

Effective Date: 07/01/2024

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 and/or freezing rain, 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 (509) 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 employees and subcontractors 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.

Adverse Weather**Published Date: 07/01/2024****Effective Date: 07/01/2024****3.0 PROCESS**

In accordance with DOE-0346, *Hanford Site Fall Protection Program (HSFPP)*, during inclement weather conditions (e.g., snow, ice, thunderstorms, lightning, wind), elevated work that requires the use of a fall protection system shall be evaluated by a Competent Person.

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: <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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. c. SUSPEND all outdoor CPCCo work when lightning is detected within a 10-mile radius. This includes outdoor scaffold structures and containment/confinement tents that are not equipped with engineering-approved lightning protection. d. 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).

Adverse Weather

Published Date: 07/01/2024

Effective Date: 07/01/2024

<i>Actionee</i>	<i>Step</i>	<i>Action</i>
	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.
Management	3.	USE caution when declaring a return to work after the absence of thunder and lightning has been observed for 30 minutes.

3.2 Wind Conditions

<i>Actionee</i>	<i>Step</i>	<i>Action</i>
Management	1.	ANALYZE workplace hazards <u>AND ENSURE</u> 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. <ul style="list-style-type: none"> 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 forecasted 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 LIMIT</u> other work to those activities specifically evaluated for continuing safe operation (including parallel and side wind impacts) and approved by the Project Director.

Adverse Weather

Published Date: 07/01/2024

Effective Date: 07/01/2024

Actionee	Step	Action
Management	2.	When dust cloud conditions are visible, CONTACT the responsible industrial safety and health representative for specific actions (e.g., personal protective equipment [PPE] requirements) and recommendations based on locations, work performed, and expected job duration.
All Employees	3.	For sustained wind speeds exceeding 20 mph, WEAR appropriate eye protection, as follows: <ul style="list-style-type: none"> • 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

- NOTE:**
- Upon arrival to the workplace, employees are encouraged to shovel snow and/or place ice melt within their physical capabilities.
 - See Figure 1, "Managing Work Scope under Winter Conditions."

Actionee	Step	Action
President's Office	1.	Annually (no later than September 15) DESIGNATE a company Snow/Ice Safety Czar.
Technical Authority	2.	Issue annual required reading of this section, "Snow/Ice Safety," to all CPCCo employees and subcontractors, no later than September 30th.
OS&IH Manager	3.	Publish the Take 5 for Safety on expectations and adherence to this procedure, no later than the second week of October.
Supervisor/ Manager	4.	WHEN hazardous snow/ice conditions are reported or detected, REVIEW scheduled work tasks to determine if work activities should be rescheduled or certain daily surveillance requirements be waived (daily/weekly/monthly).
	5.	During snow/ice conditions, ENSURE safe work measures are established and implemented. At a minimum: <ul style="list-style-type: none"> • Snow and ice 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. • Snow and ice conditions should be monitored and addressed to mitigate changing conditions throughout the workday.

Adverse Weather

Published Date: 07/01/2024

Effective Date: 07/01/2024

Actionee	Step	Action
Supervisor/ Manager	6.	COMMUNICATE to all CPCCo and CPCCo contractor employees, as/when appropriate, the content of HNF-37396, <i>Hanford Mission Integration Solutions Snow Removal Plan</i> . 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.
	7.	ENSURE identified slip hazards are barricaded/demarcated/controlled.
	8.	<u>IF</u> safe to do so, <u>THEN</u> WALK DOWN work area to evaluate current conditions for hazards.
	9.	MITIGATE hazards (if feasible to do so without putting additional personnel in harm's way) in order to ensure safe access/egress to work site.
	10.	When hazards cannot be mitigated, DO NOT PERFORM work until the activity can be safely completed.
	11.	<u>IF</u> work can be safely completed, <u>THEN</u> OBTAIN concurrence from project Release Authority prior to commencing field work.
	12.	For work scope that can be performed in snow/ice conditions, ENSURE a pre-job briefing is performed per CPCC-PRO-WKM-14047, <i>Pre-Job Briefings and Post-Job Reviews</i> and use the Snow/Ice Conditions Pre-Job Briefing Checklist Addendum (Site Form A-6008-745).
All Employees	13.	WEAR substantial footwear or company-approved traction devices suited for the surface/weather conditions. (Reference: CPCC-STD-SH-40518, <i>Personal Protection</i>) <ul style="list-style-type: none"> • <u>IF</u> traction devices are used, <u>THEN</u> REVIEW the manufacturer's instructions prior to use and follow all directions accordingly. Some traction devices may have certain limitations to prevent additional hazards, such as avoid using them indoors on tile, driving vehicles, climbing ladders, etc.
	14.	USE caution when walking. Move at a deliberate speed. Take smaller (shorter) steps. Keep both arms free to aid balance in case of a slip.
	15.	STAY on cleared paths or walkways that have been plowed/shoveled, where available. Avoid walking in areas of snow or ice.

Adverse Weather

Published Date: 07/01/2024

Effective Date: 07/01/2024

Actionee	Step	Action
All Employees	16.	<p><u>IF</u> work scope requires accessing locations not cleared of snow/ice, <u>THEN</u> OBTAIN concurrence from Supervisor/Manager before proceeding.</p> <p>a. When walking in areas where snow or ice cannot be avoided,</p> <ul style="list-style-type: none"> • DON traction devices. • PAY close attention to walking/working surfaces. • WALK slowly through snow so that hidden articles (curb, etc.) do not cause a trip. • WATCH for sudden changes in elevation such as holes or bumps. • BE aware of surfaces that can give way or become unstable when walking on them. <p>17. REPORT to Supervisor/Manager any areas of concern that appear to pose a weather-related hazard (e.g., slippery, uneven, etc.).</p> <p>18. <u>IF</u> conditions result in a slip, trip, or fall, <u>THEN</u> immediately NOTIFY Supervisor/Manager in accordance with CPCC-PRO-SH-077, <i>Reporting, Investigating, and Managing Health and Safety Events</i>.</p>
Supervisor/ Manager	19.	<p>REPORT event to Project Safety Representative <u>AND</u> CONTROL access to event location in accordance with CPCC-PRO-SH-077.</p> <p>20. WHEN event location is released, RETURN TO step 5.</p>

3.4 Torrential, Heavy, or Extended Periods of Rain and Hail Safety

Actionee	Step	Action
Management	1.	<p>During periods of torrential rains and hailstorms that impair visibility, EVALUATE <u>AND</u> MINIMIZE operation of government vehicles and equipment, where possible.</p> <p>2. During/after periods of major rain events (i.e., situations where abnormal standing water or flooding is observed), EVALUATE work areas (outdoors & indoors) to ensure water accumulation or intrusion has not created additional hazards.</p> <p>3. Limit access to areas if hazards from water accumulation or intrusion exist.</p>

Adverse Weather**Published Date: 07/01/2024****Effective Date: 07/01/2024****3.5 Early Release Due to Adverse Weather**

<i>Actionee</i>	<i>Step</i>	<i>Action</i>
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, <i>Early Release for Localized Extraordinary Conditions</i> .

Adverse Weather

Published Date: 07/01/2024

Effective Date: 07/01/2024

4.0 FORMS

A-6008-745, *Snow/Ice Conditions Pre-Job Briefing Checklist Addendum*

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*
CPCC-PRO-SH-077, *Reporting, Investigating, and Managing Health and Safety Events*
CPCC-STD-SH-40518, *Personal Protection*
CPCC-PRO-WKM-14047, *Pre-Job Briefings and Post-Job Reviews*
DOE-0346, *Hanford Site Fall Protection Program (HSFPP)*
HNF-37396, *Hanford Mission Integration Solutions Snow Removal Plan*

6.3 Bases

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

Adverse Weather

Published Date: 07/01/2024

Effective Date: 07/01/2024

Figure 1. Managing Work Scope under Winter Conditions

