



*One Team. One Culture.*

## **Administrative Procedure**

# **PRC-PRO-SH-28034**

## **Adverse Weather**

Revision 1, Change 1

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Program: Occupational Safety and Industrial Hygiene

Topic: Occupational Safety and Industrial Health

Technical Authority: Stairot, Eric

Functional Manager: Roueche, Kimberly

## **Use Type: Administrative**



**JHA:** Administrative

**Periodic Review Due Date:** 07/31/2016

Rev. 1, Chg. 1

USQ Screen Number:

- 100 K Facility : **Categorical Exclusion:** GCX-9 (Emergency Preparedness)  
**Screener:** Williams, James
- Canister Storage Building/Interim Storage Area : **Categorical Exclusion:** GCX-8 (Not in Safety Basis Compliance Matrices)  
**Screener:** Covey, Lori
- Central Plateau Surveillance and Maintenance : **Screening Determination Performed:** S&M-14-013  
**Screener:** Jacobs, Orvil
- Less Than HazCat 3 : Excluded from USQ  
**Exclusion Reason:**  
Excluded from USQ per PRC-PRO-NS-062, Scope.
- Plutonium Finishing Plant : **Screening Determination Performed:** PFP 009-2014 R0  
**Screener:** Higuera, Maurice
- Solid Waste Operations Complex : **Screening Determination Performed:** SWOC-14-009  
**Screener:** Jacobs, Orvil
- Transportation : Excluded from USQ  
**Exclusion Reason:**  
Excluded from USQ per PRC-PRO-NS-062, Table B-4.
- Waste Encapsulation Storage Facility : **Categorical Exclusion:** GCX-8 (Not in Safety Basis Compliance Matrices)  
**Screener:** Covey, Lori

## **CHANGE SUMMARY**

### **Description of Change**

1. Changed Notes to Steps
2. Revised requirements for actions to be implemented at specific wind speeds
3. Incorporated editorial changes to align with current CHPRC Procedures format and style.

**Adverse Weather**

**Published Date: 01/30/14**

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**TABLE OF CONTENTS**

1.0 PURPOSE..... 2  
1.1 SCOPE..... 2  
1.2 IMPLEMENTATION..... 2  
2.0 RESPONSIBILITIES..... 2  
3.0 PROCESS..... 3  
3.1 Lightning Safety ..... 3  
3.2 Wind Conditions..... 4  
3.3 Snow/Ice Safety ..... 5  
3.4 Torrential Rain and Hail Safety..... 5  
3.5 Early Release Due to Adverse Weather..... 5  
4.0 FORMS ..... 6  
5.0 RECORD IDENTIFICATION ..... 6  
6.0 SOURCES ..... 6  
6.1 Requirements..... 6  
6.2 References..... 6

## Adverse Weather

Published Date: 01/30/14

Effective Date: 01/30/14

### 1.0 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 CH2M HILL Plateau Remediation Company (CHPRC) Management.

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

### 1.1 SCOPE

This Level 1 Administrative Procedure is applicable to CHPRC Team employees performing CHPRC work scope. The CHPRC management team is responsible for safety throughout the CHPRC and for creating 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)276-4493 for necessary real-time weather information.*

### 1.2 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: 01/30/14

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### 3.0 PROCESS

<i>Actionee</i>	<i>Step</i>	<i>Action</i>
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: <ul style="list-style-type: none"> <li>a. COMPLY with direction and policy relating to adverse weather safety.</li> <li>b. RECOGNIZE job hazards and associated controls when working outdoors during adverse weather conditions.</li> </ul>

### 3.1 Lightning Safety

<i>Actionee</i>	<i>Step</i>	<i>Action</i>
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: <ul style="list-style-type: none"> <li>a. SUSPEND all elevated outdoor CHPRC 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.</li> <li>b. SUSPEND all outdoor CHPRC work when lightning is detected within a 10-mile radius.</li> <li>c. DEVELOP <u>AND</u> IMPLEMENT appropriate administrative and engineering controls to protect employees from lightning hazards where essential CHPRC work activities cannot be suspended (e.g., critical operations and emergency response).</li> </ul>
	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 Hanford Site 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 following a weather-related work stoppage.

## Adverse Weather

Published Date: 01/30/14

Effective Date: 01/30/14

### 3.2 Wind Conditions

<i>Actionee</i>	<i>Step</i>	<i>Action</i>
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: <ol style="list-style-type: none"> <li>a. CONTROL radiological material/activities in windy conditions in accordance with facility or project specific requirements.</li> <li>b. CONSULT with an occupational safety professional for assistance when sustained winds exceed 15 mph.</li> </ol>
Occupational Safety Professional		c. ANALYZE for hazard potential the safe continuation of crane and aerial device (lift) operation.
Management		d. DO NOT USE personnel platforms when sustained winds exceed 20 mph.
		e. When wind conditions (sustained or gusts) 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, gust 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.
		g. When sustained winds meet or exceed 25 mph and /or gusts meet or exceed 35 mph, SECURE equipment <u>AND</u> SUSPEND operations of crane and other material lifting/hoisting equipment.
Management	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.
All Employees	3.	For sustained wind speeds exceeding 20 mph, WEAR appropriate eye protection, as follows: <ol style="list-style-type: none"> <li>a. Personnel performing work outdoors are REQUIRED to wear safety goggles.</li> <li>b. Personnel transitioning from one work location to another work location, or traveling between buildings, are RECOMMENDED to wear safety goggles.</li> </ol>

## Adverse Weather

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### 3.3 Snow/Ice Safety

<i>Actionee</i>	<i>Step</i>	<i>Action</i>
Management	1.	When hazardous snow/ice conditions are reported or detected, ENSURE safe work measures are established and implemented, either by the HMS, the Hanford Patrol, or CHPRC Management. At a minimum: <ol style="list-style-type: none"> <li>a. Snow and icy conditions will be monitored by CHPRC Management, the HMS, and the Hanford Patrol.</li> <li>b. Conditions and precautions to be taken by employees will be communicated using established employee notification and communications processes and procedures.</li> <li>c. COMMUNICATE to all CHPRC and CHPRC 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 CHPRC maintained roads, parking lots, and walkways, and includes emergency points of contact.</li> </ol>
All Employees		<ol style="list-style-type: none"> <li>d. STAY on cleared paths or walkways, where available.</li> <li>e. REPORT to supervisor/manager any areas of concern that appear to pose a weather-related hazard (e.g., slippery, uneven, etc.).</li> </ol>

### 3.4 Torrential Rain and Hail Safety

<i>Actionee</i>	<i>Step</i>	<i>Action</i>
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

<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 PRC-PRO-EM-8951, <i>Early Release for Localized Extraordinary Conditions</i> .

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**4.0 FORMS**

None

**5.0 RECORD IDENTIFICATION**

None

**6.0 SOURCES**

**6.1 Requirements**

ASME B30.23, *Personnel Lifting Systems*

**6.2 References**

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

*Snow Removal Plan for the Hanford Site*

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