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WP 05-WH1717

Revision 8

Cask Unloading Room Shield Door Operation

Technical Procedure

EFFECTIVE DATE: 06/24/09

Randy Britain
APPROVED FOR USE

CONTINUOUS USE PROCEDURE

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INTRODUCTION [1]

This procedure provides instructions for operating the cask unloading room (CUR) shield door.

Performance of this procedure generates the following record(s), as applicable:

- Equipment Logbook

REFERENCES

BASELINE DOCUMENTS

- 40 CFR §264.15, "General Inspection Requirements"
- DOE/WIPP-07-3372, *Waste Isolation Pilot Plant Documented Safety Analysis*
- DOE/WIPP-07-3373, *Waste Isolation Pilot Plant Technical Safety Requirements*

REFERENCED DOCUMENTS

- WP 04-IM1000, Issues Management Processing of WIPP Forms
- EA04IM1000-1-0, WIPP Form

PRECAUTIONS AND LIMITATIONS

- Only personnel qualified as an RH Waste Handling Technician/Engineer (WHT/WHE), or trainees operating under the direct supervision of a qualified RH WHT/WHE, are authorized to perform the waste handling activities specified in this procedure.
- If the door is stopped in mid-travel with the door previously in the CLOSE position, the door must be closed first before using the door opening procedure.
- If the door is stopped in mid-travel with the door previously in the OPEN position, the door can then be operated in either the open or close direction using the appropriate directional control DOOR OPEN or DOOR CLOSE.
- Before closing door, verification must be made that **NO** personnel or obstructions are in the path of travel.
- The floor seal area must be wiped down prior to operating the door.
- Hot cell shield plugs interlock will not allow the shield door to be opened unless the shield plugs are in place.

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- The hot cell crane hoist will be disabled if the CUR shield door is open and the crane hoist is positioned over the center of the shield plugs.
- The CUR shield door will not open if area radiation monitor 411-ARM-007-041C is in "HIGH" alarm.
- Any time the door is stopped in mid-travel, the REQUEST TO OPERATE switch should be turned OFF and then back to ON prior to further operation.
- The E-Stop button may be used, if necessary, to stop the door in mid-travel.
- Safety glasses and a long-sleeve 100% cotton shirt must be worn when opening and closing breakers.
- After completion of preoperational checks, Sections 2.0 and 3.0 may be performed in any order to support training, maintenance, or waste handling.

PREREQUISITE ACTIONS

1.0 If a required inspection becomes delinquent, perform the following:

1.1 Immediately notify Site Environmental Compliance of the delinquent inspection.

1.2 Schedule and complete required inspection.

1.3 Document the following in a letter to Site Environmental Compliance within five working days:

- Schedule of inspection
- Reason(s) why inspection was not performed
- Any measures taken to offset negative impacts resulting from not performing inspection
- Actions to prevent further delinquencies

1.4 Waste Handling Operations, **GO TO** WP 04-IM1000, and issue a WIPP Form (EA04IM1000-1-0) for the delinquent inspection. Ensure Breaker 20 on 41P-DP03/1 is **ON**.

2.0 Ensure hot cell shield plugs are in place.

3.0 Verify red RAD HIGH CASK UNLOAD ROOM light is **OFF** as indicated on control panel 411-CP-223-08A.

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4.0 Ensure the REQUEST TO OPERATE switch is in the **OFF** position on control panel 411-CP-223-08A.

5.0 Verify the OPEN or CLOSE door status light is **ON**, on the control panel 411-CP-223-08A.

6.0 Ensure shield door sill plate is free of debris.

PERFORMANCE

1.0 CASK UNLOADING ROOM SHIELD DOOR PREOPERATIONAL CHECKS

1.1 Complete preoperational checks prior to use in RH-TRU 10-160B RH waste handling evolution.

1.2 Review Equipment Logbook for outstanding deficiencies and Action Requests (ARs).

1.3 Record equipment number and Not Applicable (N/A) run hours in logbook.

1.4 Ensure plant air supply is free of debris by momentarily opening blow-down valve, PA-411-V-102, off the bottom of plant air down-comer.

1.5 Ensure plant air valve, PA-411-V-097, is in the fully OPEN position.

1.6 Ensure air valves, PA-411-V-192, PA-411-V-193, and PA-411-V-194, at control panel 411-CP-223-08 are in the fully OPEN position.

1.7 Ensure a minimum of 100 psi indicated on gauge 411-PI-041-017.

1.8 Ensure E-STOP button is UP.

1.9 Perform Section 3.0 to ensure the CUR shield door functions properly during the closing sequence.

1.10 Perform Section 2.0 to ensure the CUR shield door functions properly during the opening sequence.

1.11 Initiate ARs to address any deficiencies that **CANNOT** be corrected by Waste Handling Operations.

1.12 Record the following information in Equipment Logbook:

- Deficiencies noted
- Corrective actions taken (outstanding/newly generated ARs, etc.)

1.13 Enter time, date, and signature in Equipment Logbook to document performance of preoperational checks.

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1.14 WH, perform the following:

1.14.1 Notify WHE of any deficiencies discovered during preoperational checks and status of each (e.g., deficiencies corrected and ARs generated).

1.14.2 Notify WHE and report status of preoperational check.

1.15 WHE, review Equipment Logbook on a weekly basis, generally the last day of the workweek.

2.0 OPENING CASK UNLOADING ROOM SHIELD DOOR

NOTE

All shield door operations are to be performed at the control console for CUR shield door, 411-CP-223-08A, unless otherwise directed.

2.1 Ensure E-STOP button is UP.

2.2 Put REQUEST TO OPERATE switch in **ON** position.

2.3 Verify REQUEST TO OPERATE DOOR light is **ON**.

2.4 If necessary, contact hot cell gallery crane operator and request permission to open CUR shield door.

2.5 Ensure the following at Control Panel 411-CP-236-09 in the hot cell gallery:

- Request to operate shield door light is **ON**.
- Hot cell shield plugs are installed in hot cell floor.

2.6 Press PERMISSIVE TO OPEN SHIELD DOOR push button at Hot Cell Crane Control Panel 411-CP-236-09 until PERMISSIVE TO OPEN SHIELD DOOR light is **ON**.

2.7 Verify OPEN PERMISSIVE FROM GALLERY lamp is **ON**.

2.8 Press the UNSEAL AND LIFT DOOR push button and verify the following:

2.8.1 The AIR SEAL OFF lamp is **ON**.

2.8.2 The DOOR LIFTED lamp is **ON**.

2.9 Press the SHIELD DOOR open button and verify the following:

2.9.1 The door is in the fully open position.

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2.9.2 The door OPEN lamp is **ON**.

2.10 Return the REQUEST TO OPERATE switch to **OFF**.

3.0 CLOSING CASK UNLOADING ROOM SHIELD DOOR

NOTE

All shield door operations are to be performed at control console for CUR shield door 411-CP-223-08A, unless otherwise directed.

3.1 Ensure the following:

- Shield door seal plate is clean and free of debris.
- Removable rail sections have been removed.

3.2 Place the REQUEST TO OPERATE switch to **ON**.

3.3 Press UNSEAL AND LIFT DOOR push button.

3.4 Verify the DOOR LIFTED lamp is **ON**.

3.5 Press the CLOSE push button to initiate door movement.

NOTE

When door has reached the fully closed position, it will automatically stop, air bearings will deflate and door seal will inflate.

3.6 Verify the door is moving in the close direction.

3.7 When the door reaches the close position, verify the following:

- The DOOR LIFTED lamp is **OFF**.
- The Door CLOSE lamp is **ON**.

3.8 Turn the REQUEST TO OPERATE switch to **OFF**.

3.9 Verify there is at least 6 psi of pressure on AIR SEAL gauge.

4.0 CASK UNLOADING ROOM SHIELD DOOR SHUTDOWN

4.1 Verify REQUEST to OPERATE switch is **OFF**.

4.2 Push E-STOP button.

4.3 Notify Hot Cell Crane Operator that CUR shield door operations are complete.