

WP 05-WH1714

Revision 3

RH Cask Preparation Station 41-Z-076

Technical Procedure

EFFECTIVE DATE: 03/18/10

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APPROVED FOR USE

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INTRODUCTION

This procedure provides guidance for inspecting, conducting the preoperational checks, and operating the Remote Handled (RH) Cask Preparation Station (CPS) 41-Z-076 at the Waste Isolation Pilot Plant (WIPP).

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

- Equipment Logbook

REFERENCES

BASELINE DOCUMENTS

- 40 CFR §264.15, "General Inspection Requirements"
- DOE Standard 1090-2007, *Hoisting and Rigging*

PRECAUTIONS AND LIMITATIONS

- Only personnel qualified as Waste Handling Technician/Engineer (WHT/WHE), or trainees under the direct supervision of a qualified WHT/WHE, are authorized to perform the activities specified in the procedure.
- If procedure cannot be performed as written or in sequence, WHE shall be contacted.
- Personnel must not be on the CPS while it is being operated.
- Personnel must not be underneath the elevating section of the CPS while it is being operated.
- Prior to operating the CPS, the continuous air monitor (CAM) arm shall be positioned against the handrail to avoid damage.
- Safety glasses and a long-sleeve 100% cotton shirt, and leather gloves must be worn when opening and closing breakers/disconnect switch.
- CPS must be at CNS 10-160B level to remove or attach rigging for removal or installation of the RH-TRU 72-B insert.
- All rigging utilized for removal/installation of the RH-TRU 72-B insert SHALL be inspected prior to use.
- When CPS is unoccupied or moving, ensure all safety chains are installed.

PREREQUISITE ACTIONS

- 1.0 Complete preoperational checks prior to the start of a RH waste handling evolution.
- 2.0 Review Equipment Logbook for outstanding deficiencies and action requests (ARs).
- 3.0 Record equipment number and N/A run hours in Equipment Logbook.

PERFORMANCE**1.0 PREOPERATIONAL CHECKS**

1.1 Prior to energizing Control Panel 41P-CP04/076, perform the following:

1.1.1 Inspect the CPS for the following:

- Structural fatigue (obvious cracks, bends or breaks)
- Rust, loose or deformed decking
- Missing hardware
- Trash or debris

1.1.2 Verify NO leakage of oil/grease from CPS.

1.1.3 Ensure no personnel are on any portion of the CPS or underneath the elevating section of the CPS.

1.1.4 Ensure grounding strap is connected to control panel and conduit.

2.0 OPERATIONAL CHECKS

2.1 Obtain key from lockbox or WHE.

2.2 Ensure CAM arm is positioned against handrail.

2.3 Place key in key switch on 41P-CP04/076.

2.4 Ensure E-Stop button is OUT.

WARNING

Proper Personal Protective Equipment (PPE), including a long-sleeve 100% cotton shirt, safety glasses, and leather gloves must be worn when operating power supply breaker or disconnect to prevent injury.

- 2.5 Ensure disconnect switch is **ON**.
- 2.6 Turn key to **ON**.
- 2.7 Push green CNS 10-160B button.
- 2.8 Visually verify CPS stops at the CNS 10-160B level.
- 2.9 Push green RH-TRU 72-B button.
- 2.10 Visually verify CPS stops at the RH-TRU 72-B level.
- 2.11 Push MANUAL OVERRIDE button.
- 2.12 When MANUAL OVERRIDE button begins flashing, turn and hold DOWN/UP switch in UP position and raise the CPS approximately 1 foot.
- 2.13 Release DOWN/UP switch.
- 2.14 Place DOWN/UP switch in DOWN position and lower CPS approximately 1 foot.
- 2.15 Release DOWN/UP switch.
- 2.16 Push MANUAL OVERRIDE button.
- 2.17 Verify MANUAL OVERRIDE light is **OFF**.
- 2.18 Push green PASS THRU button.
- 2.19 Visually verify CPS stops at upper limit.
- 2.20 Turn key to **OFF**.
- 2.21 Initiate ARs to address any deficiencies discovered.
- 2.22 Notify WHE of any deficiencies discovered during preoperational checks and the status of each (i.e., deficiencies corrected and ARs generated).

- 2.23 Record the following information in Equipment Logbook:
- Deficiencies noted
 - Corrective actions taken (outstanding/newly generated ARs, etc.)
- 2.24 Enter time, date, and signature in Equipment Logbook to document performance of preoperational checks.
- 2.25 WHE, review Equipment Logbook on a weekly basis, generally the last day of the workweek.

3.0 CASK PREPARATION STATION OPERATION

- 3.1 Ensure the E-STOP is OUT.
- 3.2 Turn Key to **ON**.
- 3.3 Ensure CAM arm is positioned against handrail.
- 3.4 Ensure CNS 10-160B lift lug plates are removed.

CAUTION

CPS operations are to be stopped immediately if any person gives the STOP signal.

- 3.5 Run the CPS to the desired height for the planned cask operations.
- 3.6 Remove/Install RH-TRU 72-B insert as needed for cask operations.
- 3.7 Install CNS 10-160B lift lug plates as needed.
- ### 4.0 CASK PREPARATION STATION SHUTDOWN
- 4.1 **IF** either road cask is present,
THEN ensure CPS is at applicable height.
- 4.2 **IF** no road cask is present,
THEN ensure CPS is at PASS THRU height.
- 4.3 Turn key to **OFF**.
- 4.4 Remove key.
- 4.5 Ensure all safety chains are in place and properly attached.