

# WP 05-WH1701

Revision 10

## Road Cask Transfer Car Operation

Technical Procedure

EFFECTIVE DATE: 02/20/09

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APPROVED FOR USE

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## INTRODUCTION <sup>1</sup>

This procedure provides the instructions for inspecting and conducting the preoperational checks, prior to the start of a remote-handled (RH) waste handling evolution, on the RH 72-B Road Cask Transfer Car (RCTC) (41-T-157) and the RH 10-160B RCTC (41-H-115). It also provides instructions for operating the RH 72-B RCTC and the RH 10-160B RCTC.

This procedure generates quality records in the Equipment Logbook.

## REFERENCES

### BASELINE DOCUMENTS

- 40 CFR §264.15, "General Inspection Requirements"
- WP 08-PT.03, WIPP Quality Assurance program Plan for Type "B" Packaging
- WP 13-1, Washington tRU Solutions LLC Quality Assurance Program Description

### REFERENCED DOCUMENTS

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

## PRECAUTIONS AND LIMITATIONS

- Only personnel qualified as a Waste Handling Technician/Engineer (WHT/WHE), or trainees operating under the direct supervision of a qualified WHT/WHE, are authorized to perform the waste handling (WH) activities specified in this procedure.
- Car must be operated in SLOW when approaching the desired proximity switch reflectors.
- Preoperational checks are to be completed prior to the start of an RH waste handling evolution.
- The car path is to be kept clear and the removable rail sections are to be in place prior to driving across the shield door sill.
- The AUTO STOP OVERRIDE button must be pushed to run the RCTC past the shield door sill, and beyond the proximity switch reflectors.

- Three people are required when extending the cable out from the north wall of the Cask Unloading Room to the south end of the tracks for connection, **AND** when spooling the cable in completely from the south end of the tracks.
- Safety glasses and a long-sleeve 100% cotton shirt must be worn when opening and closing breakers.

## PREREQUISITE ACTIONS

- 1.0 If a required inspection becomes delinquent, perform the following:
  - 1.1 Immediately notify Site Environmental Compliance (SEC) of the delinquent inspection.
  - 1.2 Schedule and complete required inspection.
  - 1.3 Document the following in a letter to SEC 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.
- 2.0 Review Equipment Logbook for outstanding deficiencies and Action Requests (ARs).
- 3.0 Record equipment number and Not Applicable (N/A) run hours in logbook.

## PERFORMANCE

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### NOTE

41P-MCC04/2 CB5A and 41P-SW04-67 provide power to the RCTC.

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- 1.0 PREOPERATIONAL CHECKS
  - 1.1 Prior to energizing RCTC control panel, perform the following:
    - Ensure the Cask Prep Stand is at appropriate height for RCTC pre-op checks.

- Ensure the RCTC control panel KEY SWITCH is **OFF**.

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**NOTE**

The rail sections are numbered 1 through 4 and must match the corresponding numbers on the fixed floor rails when installed.

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- Ensure rail sections are installed over the cask unloading room shield door sill.
  - Ensure the power/control cable is connected to the RCTC cable receptacle.
  - Inspect the power/control cable for any damage or wear.
  - Ensure RCTC path is clear of obstructions.
  - Ensure CAUTION barriers are up on both sides of RCTC rails.
- 1.2 Ensure the EMERGENCY STOP is in the **OUT** position.
- 1.3 At control panel, 411-CP04/80, turn the KEY SWITCH **ON**.
- 1.4 Verify POWER ON light is **ON**.
- 1.5 Place the speed SELECTOR SWITCH on **SLOW**.

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**NOTE**

The IN-OUT switch is used to select the appropriate direction of travel. IN is toward the cask unloading room and OUT is toward the RH receiving bay.

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- 1.6 Select the desired direction of travel for the RCTC.
- 1.7 Pull the RUN joystick down to initiate RCTC motion.
- 1.8 While the RCTC is running in SLOW speed, place the speed SELECTOR SWITCH on **FAST**.
- 1.9 Push the AUTO STOP OVERRIDE button to run the RCTC past the shield door sill.
- 1.10 Shift back to SLOW prior to reaching the desired automatic stop.
- 1.11 Run the RCTC to the end of travel automatic stop.

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**NOTE**

Releasing the joystick will stop motion. The EMERGENCY STOP button may be used at any time to stop the motion of the RCTC also.

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- 1.12 Release the joystick.
- 1.13 Select the opposite direction of travel with the IN-OUT switch.
- 1.14 Run the RCTC in SLOW speed.
- 1.15 While the RCTC is running in SLOW speed, place the speed SELECTOR SWITCH on **FAST**.
- 1.16 Push the AUTO STOP OVERRIDE button to run the RCTC past the shield door sill.
- 1.17 Shift back to SLOW prior to reaching the desired automatic stop.
- 1.18 Run the RCTC to the end of travel automatic stop.
- 1.19 Release the joystick.
- 1.20 Turn the KEY SWITCH **OFF**.
- 1.21 Initiate ARs to resolve any deficiencies that **CANNOT** be corrected by Waste Handling Operations.
- 1.22 WH, perform the following:
  - 1.22.1 Notify WHE of any deficiencies discovered during preoperational checks and status of each (e.g., deficiencies corrected and ARs generated).
  - 1.22.2 Notify WHE and report status of preoperational check.
- 1.23 Record the following information in Equipment Logbook:
  - Deficiencies noted
  - Corrective actions taken (outstanding/newly generated ARs, etc.)
- 1.24 Enter time, date, and signature in Equipment Logbook to document performance of preoperational checks.
- 1.25 Equipment Logbook must be reviewed by WHE on a weekly basis, generally the last day of the workweek.

## 2.0 ROAD CASK TRANSFER CAR OPERATION

- 2.1 Ensure the EMERGENCY STOP is in the **OUT** position.
- 2.2 Turn the KEY SWITCH **ON**.
- 2.3 Verify POWER ON light is **ON**.
- 2.4 Run the RCTC to the appropriate position for unloading or loading the road cask.

## 3.0 ROAD CASK TRANSFER CAR SHUTDOWN

- 3.1 **IF** the RCTC does not need to be changed out, **THEN**, perform the following:
  - 3.1.1 Run RCTC to desired location.
  - 3.1.2 Release joystick to stop.
  - 3.1.3 Turn KEY SWITCH **OFF**.
  - 3.1.4 Verify POWER ON light goes **OFF**.
- 3.2 **IF** the RCTC needs to be changed out, **THEN**, perform the following:
  - 3.2.1 Run RCTC to south end proximity switch reflector.
  - 3.2.2 Release joystick to stop.
  - 3.2.3 Turn KEY SWITCH **OFF**.
  - 3.2.4 Verify POWER ON light goes **OFF**.
  - 3.2.5 Disconnect power cable.
  - 3.2.6 Remove strain relief from car, and connect appropriate strain relief device to hook on Prep Stand.