

WP 05-WH1757

Revision 5

RH Closed-Circuit TV System

Technical Procedure

EFFECTIVE DATE: 01/25/11

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APPROVED FOR USE

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CHANGE HISTORY SUMMARY

REVISION NUMBER	DATE ISSUED	DESCRIPTION OF CHANGES
5	01/25/11	Added the JHA statement to Precautions and Limitations. Procedure revised to implement the update of the CCTV system, camera software, and camera controls. Added a Preoperational Checks section.

INTRODUCTION¹

This procedure provides guidance in operating the remote-handled (RH) Closed-Circuit TV System at the Waste Isolation Pilot Plant (WIPP).

Performance of this procedure generates the following record(s), as applicable. Any records generated are handled in accordance with departmental Records Inventory and Disposition Schedules.

- Equipment Logbook

REFERENCES

BASELINE DOCUMENTS

- OMNI Cast System Operation and Maintenance Manual
- Hazardous Waste Facility Permit, Identification No. NM4890139088-TDSF
- 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 activities specified in this procedure.
- Only personnel who are familiar with the current version of JHA PROD-407, RH CCTV, may perform this procedure.
- If the system indicates an error when connecting to the server, notify the WHE.
- Safety glasses, a long-sleeve 100% cotton shirt, and leather gloves 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.

NOTE

Server rack must be on before the stations can be logged into. The green light(s) on the server should be flashing.

- 2.0 Ensure that the server is powered up.
- 2.1 If server is **NOT** powered up, perform the following:

WARNING

Proper Personal Protective Equipment (PPE), including safety glasses, long-sleeve 100% cotton shirt and leather gloves must be worn when opening and closing breakers.

- 2.1.1 Ensure circuit breaker 13 on 41P-DP03/15 is in the **ON** position.
- 2.1.2 Contact WHE or Cognizant Engineer to restore server.

PERFORMANCE

1.0 CLIENT COMPUTER OPERATIONS

NOTE

If power is lost to client computer, WHE or Cognizant Engineer should be contacted for restoration of power.

NOTE

Client computers will always be on, if not contact WHE. Operators do not need to log ON/OFF.

- 1.1 Move mouse to ensure monitor is **ON**.
- 1.2 If needed, perform the following to log on computer client software:
 - 1.2.1 Click on the Live Viewer icon and enter the following:
 - Enter username (all caps): RHOPS
 - Obtain password from WHE.
 - 1.2.2 Click OK.
- 1.3 Select desired camera from Hot Cell, Transfer Cell, or Cask Unloading Room folder.
- 1.4 Double click desired camera to view it on the viewer, it will highlight yellow.
 - 1.4.1 To view in full screen, move arrow on the highlighted tile and double click again.
 - 1.4.2 Use the Tool Pane icon for camera control.
- 1.5 To activate ON/OFF function on laser, move zoom in/out and perform the following:
 - Click green laser icon to turn laser **ON**.
 - Click red laser icon to turn laser **OFF**.

2.0 MONITOR OPERATION

NOTE

Each monitor will have to be logged onto individually.

- 2.1 If monitor is off, enter "1234" on the keyboard.
- 2.2 Enter monitor number.
- 2.3 Push MON.
- 2.4 Enter desired camera number.
- 2.5 Push CAM.
- 2.6 To activate ON/OFF function on the laser (cameras 4, 5, and 6), perform the following:
 - 2.6.1 Rotate focus in/out.
 - 2.6.2 Hold MAC for 2 seconds.
 - 2.6.3 Hold number "2" for 2 seconds.
 - 2.6.4 Hold MAC again for 2 seconds.
- 2.7 If needed to logoff, perform the following:
 - 2.7.1 Select button 8.
 - 2.7.2 Select button 8 again to logoff.
 - 2.7.3 Select button 1.

3.0 PREOPERATIONAL CHECKS

NOTE

Preoperational checks of cameras may be performed at any client computer or monitor.

- 3.1 Review Equipment Logbook for outstanding deficiencies and Action Requests (ARs).
- 3.2 Record equipment number (41-Z-117) and Not Applicable (N/A) run hours in logbook.

NOTE

Only cameras 1, 2, 3, 4, 5, 6, 12, 13 and 25 are required to be operable for waste processing and/or area inspections.

- 3.3 Utilizing either client computer or monitor, perform the following:
- Ensure cameras 1, 2, 3, and 25 pan, tilt, and zoom in/out.
 - Ensure cameras 4, 5, and 6 zoom in/out and the laser functions.
 - Ensure cameras 7, 8, 9, 10, 11, 12, and 13 have a visible picture.
- 3.4 WH, perform the following:
- Notify WHE of any deficiencies discovered during preoperational checks, and the status of each (e.g., deficiencies corrected and ARs generated).
 - Notify WHE and report status of preoperational check.
 - Initiate ARs or WIPP Form (WP 04-IM1000) to address any deficiencies that CANNOT be corrected by Waste Handling Operations.
- 3.5 Record the following information in Equipment Logbook:
- Deficiencies noted
 - Corrective actions taken (outstanding/newly generated ARs, etc.)
- 3.6 Enter time, date, and signature in Equipment Logbook to document performance of preoperational checks.
- 3.7 WHE, review Equipment Logbook weekly, generally the last work day of the week.

Attachment 1 - Equipment Location Maps

Main Map - Hot Cell Room 124

- CAM 14 - North Wall
- CAM 15 - South Wall
- CAM 16 - West Wall
- CAM 17 - East Wall
- CAM 18 - Hot Cell PAR Manipulator (mounted on the PAR)
- CAM 19 - Hot Cell Crane (mounted on crane)
- CAM 26 - Hot Cell PAR Manipulator

Sub Map - Cask Unloading Room (CUR) Room 126

- CAM 20 - CUR Crane Bridge
- CAM 21 - CUR Crane Platform
- CAM 25 - Lower Hot Cell

Sub Map - CTS and Canister Transfer System Room 79

- CAM 1 - East Wall
- CAM 2 - Hot Cell Port
- CAM 3 - West Wall
- CAM 4 - Detent Robot (positioning camera, position X)
- CAM 5 - CLR (positioning camera, position Y)
- CAM 6 - CUR (positioning camera, position W)
- CAM 7, 8, 9, 10 - Bar Code Readers
- CAM 11 - Hallway
- CAM 12 - Detent Robot
- CAM 13 - Swipe Delivery

Monitor Numbers

- Monitor 40 - Panel 264
- Monitor 36 - CUR
- Monitor 35 - Service Room
- Monitor 37 - Hot Cell Gallery
- Monitor 38 - Hot Cell Gallery
- Monitor 39 - Hot Cell Gallery
- Monitor 41 - Transfer Cell
- Monitor 43 - Hot Cell Gallery