

WP 04-AD3001

Revision 22

Facility Mode Compliance

Management Control Procedure

TSR COMPLIANCE PROCEDURE

EFFECTIVE DATE: 07/19/10

Dale Parrish
APPROVED FOR USE

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CHANGE HISTORY SUMMARY

Revision Number	Date Issued	Description of Changes
22	07/19/10	Removed Page 12 of Attachment 4, LCO & SAC Surveillance Performance Requirements, that referenced EA04AD3001-41, EA04AD3001-42, EA04AD3001-43.

INTRODUCTION ^{1,2}

This procedure establishes Facility Operations policy for implementation of and compliance with Waste Isolation Pilot Plant (WIPP) Technical Safety Requirements (TSRs) for Mode Compliance Equipment and personnel staffing.

WIPP TSRs specify the administrative controls that impose necessary requirements for operation of the facility. These administrative controls impose administrative and operational requirements to support the WIPP Defense-in-Depth concept.

"Defense-in-Depth" contends that although Limiting Conditions of Operation (LCOs), Specific Administrative Controls (SACs), Administrative Controls (AC), and Surveillance Requirements (SRs) exist, the site can further reduce the likelihood of an occurrence, or mitigate the consequences of one, through establishment of supplemental boundaries to a release of contamination to the public or environment. Equipment and system configurations described in this procedure are specifically required by LCOs, SACs, ACs, and SRs as outlined DOE/WIPP-07-3373, *Waste Isolation Pilot Plant Technical Safety Requirements*.

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

- Attachment 1, Facility Operations Mode Approval
- Attachment 2, Facility Mode Approval Continuation Sheet
- EA04AD3001-1-0, Facility Operations Mode Checklist
- EA04AD3001-2-0, Facility TSR Administrative Controls Checklist - CH Waste Handling Mode
- EA04AD3001-3-0, Facility Checklist TSR Administrative Controls - RH Waste Handling Mode
- EA04AD3001-4-0, Return to Storage, Disposal, or Standby Mode Upon Completion of Waste Handling
- EA04AD3001-SR series, as applicable

REFERENCES

BASELINE DOCUMENTS

- DOE/WIPP-07-3372, *Waste Isolation Pilot Plant Documented Safety Analysis*
- DOE/WIPP-07-3373, *Waste Isolation Pilot Plant Technical Safety Requirements*

- Hazardous Waste Facility Permit, Waste Isolation Pilot Plant, Permit # NM4890139088 TSDf, Issued by New Mexico Environment Department
- WP 04-HO1003, Waste Handling Hoist Operation

REFERENCED DOCUMENTS

- WP 04-AD3027, TSR Violation Response and Recovery
- WP 04-VU1001, Surface Underground Ventilation and Filtration System Operation
- WP 04-VU1002, Operability Testing of Underground Filtration
- WP 04-VU1608, Underground Ventilation and Filtration System Operation
- WP 04-VU1612, WIPP Mine Ventilation Rate Monitoring
- WP 13-1, Washington TRU Solutions LLC Quality Assurance Program Description
- WP 15-PR, WIPP Records Management Program
- EA04AD3001-1-0, Facility Operations Mode Checklist
- EA04AD3001-2-0, Facility TSR Administrative Controls Checklist, CH Waste Handling Mode
- EA04AD3001-3-0, Facility Checklist TSR Administrative Controls, RH Waste Handling Mode
- EA04AD3001-4-0, Return to Storage, Disposal, or Standby Modes Upon Completion of Waste Handling
- EA04AD3001-SR Series

PRECAUTIONS AND LIMITATIONS

- The Technical Safety Requirements (TSRs) contain LCOs and SACs which provide specific preventative or mitigative limits and required actions for identified accident scenarios. Failure to comply with LCOs, ACs, or SACs may constitute a violation and must be immediately reported to the FSM. The step affected by the LCO/SAC is followed by the LCO/SAC number in bold brackets (e.g., [**LCO 3.X.X**]). See Attachment 4 for applicable LCO/SAC Surveillance Data Sheets.
- Waste handling operations are allowed only during Waste Handling Mode except as required to safely complete a waste handling evolution

interrupted by Systems, Structures, and Components (SSCs) malfunction or unavailability, and in accordance with the applicable procedure. Maintenance, repair activities, and inspections are allowed, provided the SSCs required in Attachment 5, Mode Compliance Equipment Requirements, for Waste Handling and Waste Storage Modes are restored to operation in a timely manner, and required actions are taken when equipment specified in the LCOs is made inoperable. Process area names and descriptions are listed below in Table 1.

TABLE 1 - PROCESS AREA DESCRIPTION	
PROCESS AREA NAME	PROCESS AREA DESCRIPTION
CH BAY	Area of the Waste Handling Building (WHB) used for Contact-Handled (CH) WASTE HANDLING ACTIVITIES that includes the large bay area housing the TRUPACT-II Unloading Docks [TRUDOCKS] and the Shielded Storage Room
RH BAY	Area of the WHB used for Remote-Handled (RH) WASTE HANDLING ACTIVITIES that include the large bay area of the WHB, the 140/25-ton crane, and the Cask Preparation Station.
HOT CELL COMPLEX	Area of the WHB that includes the Transfer Cell, Cask Unloading Room, and the Upper Hot Cell.
OUTSIDE AREA	The above-ground areas external to the WHB within the property protection area (PPA).
UNDERGROUND (U/G)	The Waste Hoist conveyance and below-ground areas that include the Waste Shaft Station, Transport Path, and Disposal Room(s).
SHAFT ACCESS AREA	Area of the WHB that includes the Facility Cask Loading Room (FCLR), Conveyance Loading Room, Shaft Entry Room, Waste Tower, and Waste Shaft.

- The Modes for the applicable process areas are defined below in Table 2. The WIPP consists of multiple process areas that perform specific independent functions in the accomplishment of its mission. In addition, the applicable Modes vary by process areas as indicated below in Table 3. Each process area can be in a specific mode independent of any other process area. Table 3 provides a matrix of Modes that are available for each process area.

NOTE

Prior to changing Operational Modes, specific approval for the mode change must be granted by the on-duty FSM followed by an approval announcement broadcast over the Public Address system declaring the Mode Change.

TABLE 2 - MODE DESCRIPTION	
MODE	CONDITION
WASTE HANDLING	A mode when WASTE is being handled OR moved outside of a closed shipping container.
WASTE STORAGE	A mode that is used when WASTE is outside of a closed shipping container when WASTE is not being handled or moved AND site-derived WASTE is in a waste container with the lid secured.
DISPOSAL	A mode when no waste handling activities are being conducted in the U/G.
STANDBY	A mode when WASTE is not present OR when WASTE is in a closed shipping container AND site-derived WASTE is in a waste container with the lid secured.

TABLE 3 - MODE AND PROCESS AREA MATRIX						
MODE	CH BAY	RH BAY	HOT CELL COMPLEX	SHAFT ACCESS AREA	UNDERGROUND	OUTSIDE AREA
WASTE HANDLING	X	X	X	X	X	
WASTE STORAGE	X	X	X	X		
DISPOSAL					X	
STANDBY	X	X	X	X		

- If any required Mode Compliance system fails to operate or becomes inoperable during WASTE HANDLING MODE or WASTE STORAGE MODE, immediately notify the FSM.
- Attachment 5 provides guidance and requirements for equipment lineups for each plant MODE to satisfy Defense-in-Depth concepts and LCO equipment operability requirements as specified in the WIPP TSR.
- Planned breaks during waste handling operations do not constitute a violation of TSR staffing requirements.
- Prior to and during waste handling activities, ensure airflow is directed towards the waste disposal array as designed and documented in WP 04-VU1612. (This minimizes the potential for releases from U/G events that result in facility worker exposure.)
- Different modes can be in progress for the surface and/or U/G to provide flexibility to exit waste handling mode if activities are complete in one area (surface or U/G). The CMR logbook will serve as a record of mode shift for either surface or U/G.
- Daily preoperational checks of the waste hoist brakes will be complete prior to use, verify that the brakes set as designed. **[SAC 5.1.1.1]**
- The hoist motor will be verified to be in-service prior to use of the Waste Hoist. **[SAC 5.1.1.1]**
- Attachment 2, Facility Mode Approval Continuation Sheet, may be used for additional verifications when Attachment 1, Facility Operations Mode Approval, is full.

PREREQUISITE ACTIONS

- 1.0 Facility Operations, post most current copies of Qualified Watchstander Lists (QWL) for Facility Operations personnel in the CMR.
- 2.0 FSM shall verify the CMR narrative logs reflects the current plant operating mode and system/equipment configuration related to TSRs prior to approving mode shifts.
- 3.0 After receiving approval from the FSM, the Central Monitoring Room Operator (CMRO) shall make an entry in the narrative log indicating approval and mode shift.

PERFORMANCE

1.0 MINIMUM OPERATIONS STAFFING REQUIREMENTS

1.1 Minimum operations staffing requirements for Operational Modes are listed in the electronic attachments. Prior to Mode shift, the FSM shall verify minimum operations staffing requirements in accordance for the applicable Mode.

2.0 SHIFT FROM WASTE STORAGE, STANDBY, OR DISPOSAL MODE FOR CH WASTE HANDLING MODE

2.1 Facility Operations (CMRO):

2.1.1 Complete Electronic Attachment EA04AD3001-1-0 to indicate Facility Operations personnel staffing and required systems and equipment meet requirements for CH Waste Handling Mode.

2.1.2 Sign and date the completed EA04AD3001-1-0.

2.2 CH Waste Handling Operations:

2.2.1 For CH Waste Handling Mode in the CH BAY, sign and date block 1 of Electronic Attachment EA04AD3001-2-0.

2.2.2 For CH Waste Handling Mode in the SHAFT ACCESS AREA, sign and date block 8 of Electronic Attachment EA04AD3001-2-0.

2.2.3 For CH Waste Handling Mode in the U/G, sign and date block 5 of Electronic Attachment EA04AD3001-2-0.

2.2.4 Deliver the applicable signed EA04AD3001-2-0 to the CMRO, either by hand or by facsimile (FAX).

2.3 Radiological Controls:

2.3.1 For CH Waste Handling Mode in the CH BAY, sign and date block 2 of Electronic Attachment EA04AD3001-2-0.

2.3.2 For CH Waste Handling Mode in the U/G, sign and date block 6 of Electronic Attachment EA04AD3001-2-0.

2.3.3 Deliver the applicable signed EA04AD3001-2-0 to the CMRO, either by hand or by FAX.

2.4 Underground Services:

2.4.1 For CH Waste Handling Mode in the U/G, sign and date block 3 of Electronic Attachment EA04AD3001-2-0.

- 2.4.2 Deliver the signed EA04AD3001-2-0 to the CMRO, either by hand or by FAX to 234-6049.
- 2.5 Hoisting Operations:
 - 2.5.1 For CH Waste Handling Mode in the U/G, sign and date block 4 of Electronic Attachment EA04AD3001-2-0.
 - 2.5.2 For CH Waste Handling Mode in the SHAFT ACCESS AREA, sign and date block 7 of Electronic Attachment EA04AD3001-2-0.
 - 2.5.3 Deliver the applicable signed EA04AD3001-2-0 to the CMRO, either by hand or by FAX.
- 2.6 FSM:
 - 2.6.1 Review each of the signed forms submitted in Steps 2.1 through 2.5 above.
 - 2.6.2 Sign and date the appropriate section of Attachment 1, authorizing the mode shift.
- 3.0 SHIFT FROM WASTE STORAGE, STANDBY, OR DISPOSAL MODE FOR RH WASTE HANDLING MODE
 - 3.1 Facility Operations(CMRO):
 - 3.1.1 Complete Electronic Attachment EA04AD3001-1-0 to indicate Facility Operations personnel staffing and required systems and equipment meet requirements for RH Waste Handling Mode.
 - 3.1.2 Sign and date the completed EA04AD3001-1-0.
 - 3.2 RH Waste Handling Operations:
 - 3.2.1 For RH Waste Handling Mode in the RH BAY, sign and date block 1 of Electronic Attachment EA04AD3001-3-0.
 - 3.2.2 For RH Waste Handling Mode in the HOT CELL COMPLEX, sign and date block 9 of Electronic Attachment EA04AD3001-3-0.
 - 3.2.3 For RH Waste Handling Mode in the SHAFT ACCESS AREA, sign and date block 8 of Electronic Attachment EA04AD3001-3-0.
 - 3.2.4 For RH Waste Handling Mode in the U/G, sign and date block 5 of Electronic Attachment EA04AD3001-3-0.

- 3.2.5 Deliver the signed EA04AD3001-3-0 to the CMRO, either by hand or by FAX.
- 3.3 Radiological Controls:
 - 3.3.1 For RH Waste Handling Mode in the RH BAY, sign and date block 2 of Electronic Attachment EA04AD3001-3-0.
 - 3.3.2 For RH Waste Handling Mode in the U/G, sign and date block 6 of Electronic Attachment EA04AD3001-3-0.
 - 3.3.3 For RH Waste Handling Mode in the SHAFT ACCESS AREA, sign and date block 9 of Electronic Attachment EA04AD3001-3-0.
 - 3.3.4 For RH Waste Handling Mode in the HOT CELL COMPLEX, sign and date block 11 of Electronic Attachment EA04AD3001-3-0.
 - 3.3.5 Deliver the signed EA04AD3001-3-0 to the CMRO, either by hand or by FAX.
- 3.4 Underground Services:
 - 3.4.1 For RH Waste Handling Mode in the U/G, sign and date block 3 of Electronic Attachment EA04AD3001-3-0.
 - 3.4.2 Deliver the signed EA04AD3001-3-0 to the CMRO, either by hand or by FAX.
- 3.5 Hoisting Operations:
 - 3.5.1 For RH Waste Handling Mode in the U/G, sign and date block 4 of Electronic Attachment EA04AD3001-3-0.
 - 3.5.2 For RH Waste Handling Mode in the SHAFT ACCESS AREA, sign and date block 7 of Electronic Attachment EA04AD3001-3-0.
 - 3.5.3 Deliver the signed EA04AD3001-3-0 to the CMRO, either by hand or by FAX.
- 3.6 Facility Shift Manager:
 - 3.6.1 Review each of the signed forms submitted in Steps 3.1 through 3.5 above.
 - 3.6.2 Sign and date the appropriate section of Attachment 1, authorizing the mode shift.

4.0 SHIFT FROM CH OR RH WASTE HANDLING MODE TO STORAGE, DISPOSAL, OR STANDBY MODE

4.1 CH or RH Waste Handling Operations:

4.1.1 Sign and date appropriate block of EA04AD3001-4-0.

4.1.2 Deliver the signed EA04AD3001-4-0 to the CMRO, either by hand or by FAX.

4.2 FSM:

NOTE

Attachment 2 may be used for additional verifications when Attachment 1 is full.

When shifting from a Waste Handling Mode to storage or standby mode, or when waste handling operations are complete in the U/G, the CMRO may review the signed EA04AD3001-4-0, review EA04AD3001-1-0 and ensure the requirements are met for the applicable mode and sign in the appropriate comments section of Attachment 1, and obtain FSM concurrence for the mode shift per telecon. The FSM must review EA04AD3001-1-0 and ensure the requirements are met for the applicable mode and sign Attachment 1 prior to shift change.

4.2.1 Review the signed EA04AD3001-4-0.

4.2.2 Review EA04AD3001-1-0 and ensure the requirements are met for the applicable mode.

4.2.3 Sign and date the appropriate section of Attachment 1, authorizing the mode shift.

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL CH WASTE HANDLING MODE	
CH BAY	
EA04AD3001-1-0 signed by FACILITY OPERATIONS	[]
Block 1 of EA04AD3001-2-0 signed by CH WASTE HANDLING OPERATIONS	[]
Block 2 of EA04AD3001-2-0 signed by RADIOLOGICAL CONTROL	[]
Comments: _____ _____ _____	
Approved for CH Waste Handling Mode in CH BAY By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL CH WASTE HANDLING MODE	
SHAFT ACCESS AREA - CH WASTE HANDLING	
EA04AD3001-1-0 signed by FACILITY OPERATIONS	[]
Block 7 of EA04AD3001-2-0 signed by HOISTING OPERATIONS	[]
Block 8 of EA04AD3001-2-0 signed by CH WASTE HANDLING OPERATIONS	[]
Comments: _____ _____ _____ _____ _____ Approved for CH Waste Handling Mode in SHAFT ACCESS AREA By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL RH WASTE HANDLING MODE	
RH BAY	
EA04AD3001-1-0 signed by FACILITY OPERATIONS	[]
Block 1 of EA04AD3001-3-0 signed by RH WASTE HANDLING OPERATIONS	[]
Block 2 of EA04AD3001-3-0 signed by RADIOLOGICAL CONTROL	[]
Comments: _____ _____ _____	
Approved for RH Waste Handling Mode in RH BAY	
By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL CH WASTE HANDLING MODE	
UNDERGROUND (U/G) - CH WASTE HANDLING	
EA04AD3001-1-0 signed by FACILITY OPERATIONS	[]
Block 3 of EA04AD3001-2-0 signed by UNDERGROUND SERVICES	[]
Block 4 of EA04AD3001-2-0 signed by HOISTING OPERATIONS	[]
Block 5 of EA04AD3001-2-0 signed by CH WASTE HANDLING OPERATIONS	[]
Block 6 of EA04AD3001-2-0 signed by RADIOLOGICAL CONTROL	[]
Comments: _____ _____ _____ _____ _____ Approved for CH Waste Handling Mode in U/G By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL RH WASTE HANDLING MODE	
SHAFT ACCESS AREA - RH WASTE HANDLING MODE	
EA04AD3001-1-0 signed by FACILITY OPERATIONS	[]
Block 7 of EA04AD3001-3-0 signed by HOISTING OPERATIONS	[]
Block 8 of EA04AD3001-3-0 signed by RH WASTE HANDLING OPERATIONS	[]
Block 9 of EA04AD3001-3-0 signed by RADIOLOGICAL CONTROLS	[]
Comments: _____ _____ _____	
Approved for RH Waste Handling Mode in SHAFT ACCESS AREA	
By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL RH WASTE HANDLING MODE	
HOT CELL COMPLEX - RH WASTE HANDLING	
EA04AD3001-1-0 signed by FACILITY OPERATIONS	[]
Block 10 of EA04AD3001-3-0 signed by RH WASTE HANDLING OPERATIONS	[]
Block 11 of EA04AD3001-3-0 signed by RADIOLOGICAL CONTROLS	[]
Comments: _____ _____ _____ Approved for RH Waste Handling Mode in HOT CELL COMPLEX By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL CH STORAGE, STANDBY, OR DISPOSAL MODE	
CH UNDERGROUND - DISPOSAL MODE	
Block 1 of EA04AD3001-4-0 signed by CH Waste Handling Operations	[]
Comments: _____ _____ _____ CH Waste Handling complete in Underground. Approved for CH Disposal Mode in Underground. By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL CH STORAGE, STANDBY, OR DISPOSAL MODE	
CH BAY - STORAGE MODE	
Block 2 of EA04AD3001-4-0 signed by CH Waste Handling Operations	[]
EA04AD3001-1-0 Complete for CH BAY Storage Mode	[]
Comments: _____ _____ _____	
Approved for Storage Mode in CH BAY.	
By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL CH STORAGE, STANDBY, OR DISPOSAL MODE	
CH BAY - STANDBY MODE	
Block 3 of EA04AD3001-4-0 signed by CH Waste Handling Operations	[]
EA04AD3001-1-0 Complete for CH BAY STANDBY MODE	[]
Comments: _____ _____ _____	
Approved for Standby Mode in CH BAY.	
By: _____ Facility Shift Manager	Date/Time

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL STORAGE, STANDBY, OR DISPOSAL MODE	
RH SHAFT ACCESS AREA - STANDBY MODE	
Block 3 of EA04AD3001-4-0 signed by RH WASTE HANDLING OPERATIONS	[]
EA04AD3001-1-0 Complete for RH SHAFT ACCESS AREA Standby Mode Comments: _____ _____ _____	[]
Approved for Standby Mode in RH SHAFT ACCESS AREA By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL RH STORAGE, STANDBY, OR DISPOSAL MODE	
RH UNDERGROUND - DISPOSAL MODE	
Block 1 of EA04AD3001-4-0 signed by RH Waste Handling Operations	[]
Comments: _____ _____ _____ RH Waste Handling complete in Underground. Approved for RH Disposal Mode in Underground. By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL RH WASTE HANDLING MODE	
UNDERGROUND (U/G) - RH WASTE HANDLING	
Block 3 of EA04AD3001-3-0 signed by UNDERGROUND SERVICES	[]
Block 4 of EA04AD3001-3-0 signed by HOISTING OPERATIONS	[]
Block 5 of EA04AD3001-3-0 signed by RH WASTE HANDLING OPERATIONS	[]
Block 6 of EA04AD3001-3-0 signed by RADIOLOGICAL CONTROL	[]
EA04AD3001-1-0 Complete for RH UNDERGROUND WASTE HANDLING Mode	[]
Comments: _____ _____ _____	
Approved for RH WASTE HANDLING MODE in the Underground.	
By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL RH STORAGE, STANDBY, OR DISPOSAL MODE	
RH BAY - STORAGE MODE	
Block 2 of EA04AD3001-4-0 signed by RH Waste Handling Operations	[]
EA04AD3001-1-0 Complete for RH BAY Storage Mode Comments: _____ _____ _____	[]
Approved for Storage Mode in RH BAY. By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL RH STORAGE, STANDBY, OR DISPOSAL MODE	
RH BAY - STANDBY MODE	
Block 3 of EA04AD3001-4-0 signed by RH Waste Handling Operations	[]
EA04AD3001-1-0 Complete for RH BAY Standby Mode Comments: _____ _____ _____	[]
Approved for Standby Mode in RH BAY. By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL STORAGE, STANDBY, OR DISPOSAL MODE	
RH SHAFT ACCESS AREA - RH STORAGE MODE	
Block 5 of EA04AD3001-4-0 signed by RH WASTE HANDLING OPERATIONS	[]
EA04AD3001-1-0 Complete for SHAFT ACCESS AREA - STORAGE MODE	[]
Comments: _____ _____ _____	
Approved for Storage Mode in RH SHAFT ACCESS AREA.	
By: _____ Facility Shift Manager	Date/Time

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL STORAGE, STANDBY, OR DISPOSAL MODE	
HOT CELL COMPLEX - RH STORAGE MODE	
Block 4 of EA04AD3001-4-0 signed by RH WASTE HANDLING OPERATIONS	[]
EA04AD3001-1-0 Complete for HOT CELL COMPLEX - RH STORAGE MODE	[]
Comments: _____ _____ _____	
Approved for Storage Mode in HOT CELL COMPLEX.	
By: _____ Facility Shift Manager	Date/Time

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL RH STORAGE, STANDBY, OR DISPOSAL MODE	
HOT CELL COMPLEX - RH STANDBY MODE	
Block 3 of EA04AD3001-4-0 signed by RH WASTE HANDLING OPERATIONS	[]
EA04AD3001-1-0 Complete for HOT CELL COMPLEX RH Standby Mode Comments: _____ _____ _____	[]
Approved for Standby Mode in HOT CELL COMPLEX. By: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin-left: 20px;"> Facility Shift Manager Date/Time </div>	

Attachment 1 - Facility Operations Mode Approval

FACILITY OPERATIONS MODE APPROVAL STORAGE, STANDBY, OR DISPOSAL MODE	
CH SHAFT ACCESS AREA - WASTE HANDLING COMPLETE	
Block 3 of EA04AD3001-4-0 signed by CH WASTE HANDLING OPERATIONS	[]
CH WASTE HANDLING complete in SHAFT ACCESS AREA Comments: Note: SHAFT ACCESS AREA Mode is now determined by RH WASTE HANDLING. Approved By: Facility Shift Manager Date/Time	[]

Attachment 2 - Facility Mode Approval Continuation Sheet

SHIFT CHANGE/WATCH RELIEF VERIFICATION CONTINUATION SHEET

The FSM's signature on this Continuation Sheet certifies that plant operations, conditions, or maintenance in progress have not invalidated mode approval requirements.

Mode Approval verified by: _____
Facility Shift Manager Date/Time

Mode Approval verified by: _____
Facility Shift Manager Date/Time

Mode Approval verified by: _____
Facility Shift Manager Date/Time

Mode Approval verified by: _____
Facility Shift Manager Date/Time

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Facility Shift Manager Date/Time

Mode Approval verified by: _____
Facility Shift Manager Date/Time

Mode Approval verified by: _____
Facility Shift Manager Date/Time

Continued

Attachment 3 - Instructions for Completing LCO and SAC Surveillance Data Sheets

INSTRUCTIONS FOR COMPLETION OF LCOs AND SACs
SURVEILLANCE DATA SHEETS

This attachment provides instructions for properly completing LCOs and SACs Surveillance Data Sheets which demonstrate compliance with the TSR listed in DOE/WIPP-07-3373, *Waste Isolation Pilot Plant Technical Safety Requirements*.

The TSRs continue the LCOs and SACs which state the lowest functional capability or performance levels of equipment and the restrictive parameters or conditions required for safe operation of the facility.

LCO AND SAC SURVEILLANCE DATA SHEET COMPLETION

The title block of the Surveillance Data Sheets lists the specific LCO and/or SAC by number and title; the SR number and/or the SAC statement; the required performance frequency; the applicable MODE; the applicable Process Area and the performance procedure(s).

Surveillance Data Sheets SHALL be completed as follows:

- All required data, narrative entries and comments made in **BLACK INK**.
- Surveillance Data Sheets SHALL NOT have any blanks or missing information. Where information is not applicable (e.g., Out-of-Service, Out-of-Commission, Standby, Locked-Out/Tagged-Out, or Not Applicable for current operation), the appropriate indicator will be used on the Surveillance Data Sheet: OOS, OOC, STBY, LO/TO, N/A, etc.
- When readings are taken that are abnormal or outside the minimum or maximum operating limits, the Surveillant will circle in **RED INK** the abnormal reading and immediately notify the FSM and the cognizant manager.
- The Surveillant will note in the comments section on the Surveillance Data Sheet, if known, the reason for the abnormal or out-of-limit condition (i.e., OOS, OOC, STBY, LO/TO, N/A, etc).
- If correction of an entry is necessary, the incorrect entry will have a single line drawn through it. The Surveillant will enter their initials and date in the right-hand margin of the Surveillance Data Sheet to the right of where the incorrect entry occurred.

Attachment 3 - Instructions for Completing LCO and SAC Surveillance Data Sheets

- After completing the surveillance and entering the required information on the applicable Surveillance Data Sheet(s), the Surveillant will print their name, sign, and enter the date and the surveillance completion time.
- After the FSM reviews and approves the Surveillance Data Sheet(s), the LCO Coordinator will collect and retain for records purposes.
- All LCO required surveillances that are performed underground will be faxed to the CMR. The CMRO will then put them in the Surveillance Collection basket.
- Originals must be taken to the CMR at the end of each shift and placed in the Surveillance Collection basket.
- All surveillances performed on the surface must be hand carried to the CMR and placed in the Surveillance Collection basket.
- The FSM will collect the surveillances and update the status board.
- Personnel that will perform the surveillances and fax or carry them to the CMR will be designated by name each shift during turnover.
- A surveillance check sheet will be added to Facility Ops turnover sheet and will be reviewed by both FSMs and CMROs during turnover each shift to verify that all required surveillances have been completed within their assigned periodicity.

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY								
SR1	LCO 3.1.1	WHB Fire Suppression System	4.1.1.1	<p>VERIFY the supply water static pressure at each riser listed below is ≥ 105 psig:</p> <table border="0"> <tr> <td><u>Riser</u></td> <td><u>Gauge Number</u></td> </tr> <tr> <td>CH Bay</td> <td>411-PI-003-001</td> </tr> <tr> <td>OP&RR</td> <td>411-PI-003-003</td> </tr> <tr> <td>RH Bay</td> <td>411-PI-003-005</td> </tr> </table>	<u>Riser</u>	<u>Gauge Number</u>	CH Bay	411-PI-003-001	OP&RR	411-PI-003-003	RH Bay	411-PI-003-005	Monthly
<u>Riser</u>	<u>Gauge Number</u>												
CH Bay	411-PI-003-001												
OP&RR	411-PI-003-003												
RH Bay	411-PI-003-005												
SR2	LCO 3.1.1	WHB Fire Suppression System	4.1.1.2	<p>VERIFY the isolation valve for each riser listed below is locked open:</p> <table border="0"> <tr> <td><u>Riser</u></td> <td><u>Isolation Valve</u></td> </tr> <tr> <td>CH BAY</td> <td>FW-411-V-001</td> </tr> <tr> <td>OP&RR</td> <td>FW-411-V-010</td> </tr> <tr> <td>RH BAY</td> <td>FW-411-V-052</td> </tr> </table>	<u>Riser</u>	<u>Isolation Valve</u>	CH BAY	FW-411-V-001	OP&RR	FW-411-V-010	RH BAY	FW-411-V-052	Monthly
<u>Riser</u>	<u>Isolation Valve</u>												
CH BAY	FW-411-V-001												
OP&RR	FW-411-V-010												
RH BAY	FW-411-V-052												
SR3	LCO 3.1.1	WHB Fire Suppression System	4.1.1.3	<p>VERIFY the following system isolation valves are locked OPEN:</p> <ul style="list-style-type: none"> • FW-456-V-001 • FW-456-V-003 • FW-456-V-019 • FW-456-V-020 	Monthly								
SR4	LCO 3.1.1	WHB Fire Suppression System	4.1.1.4	<p>VERIFY valve FW-456-V-021 is locked CLOSED.</p>	ANNUALLY								

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY								
SR5	LCO 3.1.1	WHB Fire Suppression System	4.1.1.5	<p>OPEN the Inspectors Test Valve (ITV) associated with each riser as identified below and VERIFY water-flow through the associated riser:</p> <table border="0"> <tr> <td><u>Riser Valve</u></td> <td><u>Inspector's Test</u></td> </tr> <tr> <td>CH Bay</td> <td>FW-411-V-023 and FW-412-V-002</td> </tr> <tr> <td>OP&RR</td> <td>FW-411-V-062</td> </tr> <tr> <td>RH Bay</td> <td>FW-411-V-042 and FW-411-V-044</td> </tr> </table>	<u>Riser Valve</u>	<u>Inspector's Test</u>	CH Bay	FW-411-V-023 and FW-412-V-002	OP&RR	FW-411-V-062	RH Bay	FW-411-V-042 and FW-411-V-044	QUARTERLY
<u>Riser Valve</u>	<u>Inspector's Test</u>												
CH Bay	FW-411-V-023 and FW-412-V-002												
OP&RR	FW-411-V-062												
RH Bay	FW-411-V-042 and FW-411-V-044												
SR6	LCO 3.1.1	WHB Fire Suppression System	4.1.1.6	<p>Perform an automatic start test of each fire pump to assure it starts at the setpoint specified below:</p> <p>45-G-601 (electric) ≥ 110 psig 45-G-602 (diesel) ≥ 100 psig</p>	WEEKLY								
SR7	LCO 3.1.1	WHB Fire Suppression System	4.1.1.7	<p>VERIFY fire pumps are capable of supplying ≥ 1500 gpm at ≥ 105 psig net discharge.</p>	ANNUALLY								
SR8	LCO 3.1.1	WHB Fire Suppression System	4.1.1.8	<p>VERIFY that the diesel supply tank contains ≥ 3/4 full tank of diesel.</p>	WEEKLY								

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY
SR9	LCO 3.1.1	WHB Fire Suppression System	4.1.1.9	VERIFY that there are \geq 105,000 gallons of fire water available within the water distribution system.	EACH SHIFT

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY
SR10	LCO 3.1.2	Waste Handling Equipment	(CH) 4.1.2.1 4.1.2.3 5.1.1.2	<p>CH Waste Handling Equipment Fire Suppression System</p> <ul style="list-style-type: none"> • VERIFY that the fire suppression system on the WASTE HANDLING EQUIPMENT selected for underground use has not discharged. • VERIFY no trouble lights are illuminated on the selected WASTE HANDLING EQUIPMENT. <p>CH Liquid-Fueled Waste Handling Equipment Inspection</p> <ul style="list-style-type: none"> • VERIFY that there are no excessive leaks (i.e., battery compartment, hydraulic lines, fuel lines) as indicated by visible flow of fluid under pressure, puddles beneath the equipment, or abnormal loss of hydraulic fluid. • VERIFY fluid levels (i.e., engine oil, transmission fluid, hydraulic fluid, brake fluid) are within manufacturer specifications. • VERIFY lights and horn are IN-SERVICE. 	EACH SHIFT

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY
SR11	LCO 3.1.2	Waste Handling Equipment	(RH) 4.1.2.1 4.1.2.3 5.1.1.2	RH Waste Handling Equipment Fire Suppression System <ul style="list-style-type: none"> • VERIFY that the fire suppression system on the WASTE HANDLING EQUIPMENT selected for underground use has not discharged. • VERIFY no trouble lights are illuminated on the selected WASTE HANDLING EQUIPMENT. RH Liquid-Fueled Waste Handling Equipment Inspection <ul style="list-style-type: none"> • VERIFY that there are no excessive leaks (i.e., battery compartment, hydraulic lines, fuel lines) as indicated by visible flow of fluid under pressure, puddles beneath the equipment, or abnormal loss of hydraulic fluid. • VERIFY fluid levels (i.e., engine oil, transmission fluid, hydraulic fluid, and brake fluid) are within manufacturer specifications. • VERIFY lights and horn are in-service. 	EACH SHIFT

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY
SR12	LCO 3.1.2	Waste Handling Equipment Fire Suppression system	(CH) 4.1.2.2	Perform a test of the Fire Suppression System controls.	SEMIANNUALLY
SR13	LCO 3.1.2	Waste Handling Equipment Fire Suppression System	(RH) 4.1.2.2	Perform a test of the Fire Suppression System controls.	SEMIANNUALLY
SR14	LCO 3.2.1	CH BAY Active Confinement Ventilation System	4.2.1.1 4.2.1.2	<ul style="list-style-type: none"> • VERIFY one confinement ventilation system exhaust fan, 41-B-816 OR 41-B-817 is IN-SERVICE. • VERIFY CH BAY exhaust air is flowing from HEPA filter unit to exhaust fan. 	DAILY
SR15	LCO 3.2.1	CH BAY Active Confinement Ventilation System	4.2.1.3	VERIFY one stage of HEPA filter in unit 41-B-814 AND 41-B-815 has an efficiency of $\geq 99\%$.	ANNUALLY
SR16	LCO 3.2.2	HOT CELL COMPLEX Confinement Ventilation System	4.2.2.1 4.2.2.2	<ul style="list-style-type: none"> • VERIFY one confinement ventilation system exhaust fan, 41-B-878A OR 41-B-878B is IN-SERVICE. • VERIFY HOT CELL COMPLEX exhaust air is flowing from at least <u>two</u> HEPA filter units to exhaust fan. 	DAILY
SR17	LCO 3.2.2	HOT CELL COMPLEX Confinement Ventilation System	4.2.2.3	VERIFY one stage of HEPA filter in units 41-B-877A AND 41-B-877B AND 41-B-877C has an efficiency of $\geq 99\%$.	ANNUALLY

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY
SR18	LCO 3.3.1	Vehicle Control in the OUTSIDE AREA	4.3.1.1 4.3.1.2	<ul style="list-style-type: none"> • VERIFY fuel delivery truck has a leading escort. • VERIFY fuel delivery truck stays on the DESIGNATED ROUTE. 	Each Fuel Shipment
SR19	LCO 3.3.2	Vehicle/Equipment Control in the CH BAY	4.3.2.1	VERIFY that there are no liquid-fueled vehicles in the CH BAY.	Each Shift
SR20	LCO 3.3.3	Vehicle/Equipment Control in the SHAFT ACCESS AREA	4.3.3.1	VERIFY that there are no liquid-fueled vehicles in the SHAFT ACCESS AREA.	Prior to Declaring MODE
SR21	LCO 3.3.4	Control of Propane-Powered Vehicles/Equipment	4.3.4.1	VERIFY that there are no propane-powered vehicles/equipment in CH BAY OR RH BAY OR SHAFT ACCESS AREA OR UNDERGROUND.	QUARTERLY
SR22	LCO 3.3.5	Lube Truck Access Control in the UNDERGROUND	4.3.5.1	VERIFY that the Lube Truck is not in the DISPOSAL ROOM.	EACH SHIFT
SR23	LCO 3.3.6	Liquid-Fueled Vehicle/Equipment Control in the TRANSPORT PATH	4.3.6.1 4.3.6.2	<ul style="list-style-type: none"> • VERIFY TRANSPORT PATH is established PRIOR to WASTE movement. • VERIFY VEHICLE EXCLUSION ZONE is established PRIOR to WASTE movement. 	Prior to WASTE Movement

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY
SR24	LCO 3.3.7	Liquid-Fueled Vehicle/Equipment Control at a WASTE FACE	4.3.7.1 4.3.7.3	<ul style="list-style-type: none"> • VERIFY only one WASTE HANDLING EQUIPMENT is replacing WASTE. • VERIFY non-WASTE Handling Equipment \geq 25 feet from WASTE FACE. 	EACH SHIFT
SR25	LCO 3.3.7	Liquid-Fueled Vehicle/Equipment Control at a WASTE FACE	4.3.7.2	VERIFY only one WASTE HANDLING EQUIPMENT AND one Liquid-Fueled non-WASTE handling vehicle/equipment is used for retrieval.	EACH SHIFT when retrieval is being conducted
SR26	LCO 3.3.8	Liquid-Fueled Vehicle/Equipment Control at a WASTE FACE	4.3.8.1	VERIFY Liquid-Fueled vehicles/equipment \geq 25 feet from the WASTE FACE.	EACH SHIFT
SR27	LCO 3.4.1	Fuel Confinement in the RH BAY	4.4.1.1 4.4.1.2	<ul style="list-style-type: none"> • VERIFY that the absorbent material encircles the liquid-fueled equipment used for maintenance. • VERIFY that the absorbent material is sized to confine a fuel pool spill on the equipment used for maintenance. 	PRIOR TO USE
SR28	LCO 3.4.2	Fuel Barrier in the UNDERGROUND	4.4.2.1	VERIFY STATIC WASTE FACE is protected.	Within 10 days after no WASTE emplacement

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY
SR29	LCO 3.5.1	CH WASTE Handling	4.5.1.1	VERIFY CH WASTE is secured to the facility pallet.	After loading each facility pallet
SR30	LCO 3.5.2	WASTE HANDLING in the SHAFT ACCESS AREA	4.5.2.1	VERIFY WASTE hoist conveyance is present prior to opening Door 155 OR Door 156.	Prior to WASTE entering shaft entry room
SR31	LCO 3.5.3	WASTE HANDLING in the OUTSIDE AREA	4.5.3.1	VERIFY WASTE is in a CLOSED SHIPPING CONTAINER.	DAILY
SR32	LCO 3.6.1	Storage of Compressed Gas Cylinders	4.6.1.1	VERIFY compressed gas cylinders are in designated storage areas.	After each use
SR33	LCO 3.6.1	Storage of Compressed Gas Cylinders	4.6.1.2 4.6.1.3 4.6.1.5	<ul style="list-style-type: none"> VERIFY designated storage areas are \geq 25 feet from WASTE. VERIFY compressed gas cylinders in storage areas are secured. VERIFY flammable compressed gas cylinders are stored \geq 100 feet from WASTE. 	WEEKLY
SR34	LCO 3.6.1	Storage of Compressed Gas Cylinders	4.6.1.4	VERIFY storage compressed gas cylinders valve is closed and the cap or guard is installed.	After each use

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY
SR35	LCO 3.6.2	Use of Compressed Gas Cylinders	4.6.2.1 4.6.2.2 4.6.2.3	<ul style="list-style-type: none"> • VERIFY compressed gas cylinder is secured. • VERIFY flammable Compressed gas cylinders are ATTENDED. • VERIFY activities using flammable compressed gas cylinder has a Hot Work Permit. 	Prior to Use/ Prior to Work ACTIVITY
SR36	LCO 3.6.3	Transport of Compressed Gas Cylinders	4.6.3.1 4.6.3.2	<ul style="list-style-type: none"> • VERIFY compressed gas cylinder is secured. • VERIFY compressed gas cylinder has valve closed and valve cap or guard installed. 	Prior to movement
SR37	LCO 3.3.6	Liquid-Fueled Vehicle/Equipment Control in the TRANSPORT PATH	4.3.6.3	Maintain VEHICLE EXCLUSION ZONE during WASTE movement.	During WASTE movements
SR38	SAC 5.0	Waste Hoist System	5.1.1.1	VERIFY PRIOR TO USE of the WASTE hoist: <ul style="list-style-type: none"> • Brakes are IN-SERVICE • Hoist motor is IN-SERVICE 	PRIOR TO USE of the WASTE hoist

Attachment 4 - LCO & SAC Surveillance Performance Requirements

LCO & SAC SURVEILLANCE PERFORMANCE REQUIREMENTS

EA04AD3001-	LCO/SAC	SYSTEM/EQUIPMENT	SURVEILLANCE IDENTIFIER	SURVEILLANCE REQUIREMENTS	FREQUENCY
SR39	SAC 5.0	Liquid-Fueled Vehicle/Equipment Inspection Program	GC 5.1.1.2	<ul style="list-style-type: none"> • VERIFY that there are no excessive leaks (i.e., battery compartment, hydraulic lines, fuel lines) as indicated by visible flow of fluid under pressure, puddles beneath the equipment, or abnormal loss of hydraulic fluid; • Fluid levels (i.e., engine oil, transmission fluid, hydraulic fluid, brake fluid); • Lights and horn are IN-SERVICE. 	PRIOR TO USE
SR40	SAC 5.0	Ground Control Program	5.1.1.3	<ul style="list-style-type: none"> • Verify there are no unsafe conditions due to loose, broken, or missing bolts in back or ribs. • Verify there are no unsafe conditions due to loose or deformed roof plates. • Verify there are no unsafe conditions due to hazardous cracks, fractures, or separations in back or ribs. • Verify there are no unsafe conditions by sounding and scaling the back and ribs. 	WEEKLY

Attachment 5 - Mode Compliance Equipment Requirements

U/G Ventilation and Filtration System (UVFS) - The UVFS is a Defense-in-Depth system. The UVFS shall be operating in modes to support U/G operations as designated by the FSM in accordance with WP 04-VU1001 and WP 004-VU1608. The UVFS shall be capable of automatic or manual shift-to-filtration. Automatic shift-to-filtration (Quarterly Test) is considered operable if the automatic shift-to-filtration from Room Exit Continuous Air Monitor (CAM) operability test in WP 04-VU1002 has been verified to have been satisfactorily completed within the previous calendar quarter. Manual shift-to-filtration (Monthly Test) is considered operable if one of the shift-to-filtration tests in WP 04-VU1002 has been verified to have been satisfactorily completed within the previous month. Thus, the Quarterly Test is also the Monthly Test.

Central Monitoring System (CMS) - The CMS is considered operable if the equipment required to support U/G shift-to-filtration is operating. This CMS equipment includes LPUs 805, 807, 822, 835, 836, 838, and one operating CMR console. If any of the stated CMS equipment is inoperable, an alternate means of shift-to-filtration may be used (e.g., manual shift-to-filtration).

Radiation Monitoring System (RMS) - The U/G RMS at the active U/G waste room is considered operable if at least one room exit alpha CAM is operating. A CAM is considered operating if Radiological Control has reported to the CMRO within the last Radiological Control working day that operability checks for the CAM are complete and satisfactory.