

WP 12-ER4903

Revision 14

Radiological Event Response

Emergency Response Procedure

EFFECTIVE DATE: 07/19/10

Robert Paslay
APPROVED FOR USE

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CHANGE HISTORY SUMMARY

REVISION NUMBER	DATE ISSUED	DESCRIPTION OF CHANGES
14	07/19/10	Added Step 4.3

1.0 ENTRY CONDITIONS

Central Monitoring Room Operator (CMRO) receives notification of any one of the following events that has potentially or actually resulted in an uncontrolled release of radioactive materials and/or radiation:

- Underground (U/G) continuous air monitors (CAMs) HI HI radiation alarm
- Waste handling accident
- Spalling/roof fall in an active waste emplacement area underground
- Removable contamination exceeding 100 times the limit (2,000 DPM/100 cm² alpha or 20,000 DPM/100 cm² beta/gamma)
- Waste Handling Building (WHB) Contact-Handled (CH) CAM Radiation Alarm
- WHB Remote-Handled (RH) CAM Alpha alarms

2.0 AUTOMATIC ACTIONS

If a HI HI alarm is from an U/G CAM, U/G ventilation will shift-to-filtration.

3.0 IMMEDIATE ACTIONS

NOTE

The alarms from the RH Gamma detectors on CAM 060 and CAM 062 do not require any response from the CMRO other than contacting the RH Radiological Control Technician (RCT) or RH on-call representative.

- 3.1 CMRO, **IF** alarm is from an U/G CAM, **THEN** verify U/G ventilation has shifted-to-filtration **AND** U/G High Efficiency Particulate Air (HEPA) DPs are normal.
- 3.2 CMRO, **IF** notified of a potential or actual release of radioactive material from the U/G, **THEN** shift the U/G ventilation **AND** verify negative DPs in the affected U/G areas and U/G HEPA Bank DPs are normal.
- 3.3 CMRO, **IF** notified of CH CAM **OR** RH CAM Alpha alarm, **OR** notified of an actual or potential release of radioactive material, **THEN** verify negative DPs in the WHB are normal.
- 3.4 CMRO, sound INTRO alarm for about 5 seconds.

- 3.5 CMRO, inform site personnel of the following:
- 3.5.1 Radiological control (RADCON) event in/at (state area).
 - 3.5.2 Evacuate (state location) (if event is on the RH side of the WHB, evacuate RH Bay and CH Bay).
- 3.6 Facility Shift Manager (FSM) and Emergency Services Technician, contact the CMR.
- 3.7 Suspend waste handling activities in the affected area.
- 3.8 Stop all work in the affected area.

4.0 SUBSEQUENT ACTIONS

- 4.1 CMRO, contact the RADCON Manager.
- 4.2 CMRO, contact manager of U/G Operations.
- 4.3 CMRO, place affected area HVAC (CH Bay/RH Bay) in once through operation from the CMS.
- 4.4 FSM, perform initial radiological assessment of the incident, with assistance from radiological personnel.
- 4.5 RADCON Technician, investigate situation and/or cause of alarm condition, if safe to do so.

NOTE

The Emergency Operations Center (EOC) may be activated if additional support is needed.

- 4.6 CMRO, if necessary, activate the EOC and perform the following:
- Announce on public address (PA) System "Activate the EOC."
 - Using site paging system, enter Pager 422, **THEN** 111 when prompted.
- 4.7 FSM/Crisis Manager, determine emergency category and classification in accordance with WP 12-ER3906, Categorization and Classification of Operational Emergencies, **AND** perform subsequent appropriate notifications and protective actions.
- 4.8 CMRO, notify Facility Manager Designee.
- 4.9 FSM, determine if ongoing work needs to be suspended.

- 4.10 FSM, **IF** release is confirmed and involves one of the following, **THEN** implement the RCRA Contingency Plan and WP 12-ER3002, Emergency Operations Center Activation.
- Standard Waste Box
 - Multiple 55-gallon barrels of CH/RH TRU waste
 - Spalling/roof fall in an active waste emplacement area underground
- 4.11 FSM/Designee, determine if an accident as defined in Title 30 CFR §50.2, "Accident," has occurred in accordance with WP 04-AD3025, State Mine Accident Emergency Operations Center Notification Plan.
- 4.12 FSM, **IF** release of radioactive material is indicated by RADCON, **THEN** implement WP 12-ER4902, Hazardous Material Spill and Release Response.
- 4.13 FSM, determine if off-site assistance is required per applicable Memorandum of Understanding.
- 4.14 CMRO, monitor CAMs.

5.0 EXIT CONDITIONS

FSM, when **ANY** of the following bulleted items have been confirmed to exist, **EXIT** this procedure:

- RADCON personnel have verified that no radiological release has occurred.
- WP 12-ER4902 has been implemented.
- RCRA Contingency Plan and WP 12-ER3002 have been implemented.