

Date: Oct. 5, 2012

To: Environmental Quality Commission

From: Dick Pedersen, Director

Subject: Agenda item C, Informational item: Umatilla Chemical Demilitarization Program status update
Oct. 25-26, 2012, EQC meeting

Purpose of item This item will inform the commission about permitting activities and project status at the Umatilla Chemical Agent Disposal Facility as of Sept. 17, 2012.

Depot status The Umatilla Chemical Depot was closed under a General Order of Closure on Aug. 1, 2012. The depot is currently under Army Base Realignment and Closure authority and the Umatilla Chemical Agent Disposal Facility is a tenant.

Program news Agent operations
The Umatilla facility destroyed the last agent-filled munitions in its stockpile Oct. 25, 2011. The facility is now treating secondary wastes and conducting decontamination, dismantling and equipment removal activities.

Decontamination, dismantling and equipment removal activities for closure

- Continued decontamination and occluded space surveys in the Toxic Cubicle, Explosive Containment Vestibule, Buffer Storage Area, Liquid Incinerator Two room and the Lower Munitions Corridor.
- Completed head space monitoring in these spaces in preparation for unventilated monitoring tests.
- Continued equipment removal of conveyors, lifts, pick and place machine and grout pad removal in the Munitions Processing Bay.

Secondary waste

During the mustard campaign, the Army stored agent-contaminated wastes in containers and transported them to J-Block permitted storage. The facility completed treatment of the entire back log of secondary waste stored in J-Block on July 31, 2012. The facility is currently processing secondary wastes generated during decontamination, dismantling and equipment removal activities. The facility has also begun processing agent-contaminated carbon from the air filtration system.

Closure permitting activities

DEQ issued a draft closure plan on Oct. 25, 2011. Based on preliminary discussions with U.S. Environmental Protection Agency Region 10, DEQ extended the comment period to Jan. 19, 2012. The facility submitted a modification to the closure plan for review on April 4, 2012. The closure plan has been edited since

then to address stakeholder comments and has been released for a 45-day public comment period. A public hearing for the closure plan was held on Sept. 19, 2012. DEQ issued a temporary authorization to proceed with initial closure activities on Aug. 21, 2012.

That temporary authorization has allowed the facility to:

- Begin removal of the top layer of potentially agent contaminated concrete in the Toxic Cubicle and the Explosive Containment Vestibule.
- Begin closure activities for Liquid Incinerator Two.
- Begin occluded space remediation and removal of potentially agent contaminated concrete in the Explosive Containment Rooms.
- Conduct an Unventilated Monitoring Test in the Deactivation Furnace System room with Centers for Disease Control staff on site. The successful completion of this test has allowed the room to be considered safe for demolition.

**Umatilla
Chemical
Agent Disposal
Facility RCRA
permitting
activity**

Aug. 1 through Sept. 19, 2012

Permit Modifications Received		
#	Title/Activity	Received
12-014	Removal of CMP Report Submittal Requirement to the Hermiston Public Library	8/02/12
12-019	Waste Analysis Plan Update	8/14/12
12-018	Removal of Requirements for a Carbon Trial Burn	8/16/12

Permit Modifications Under Review				
#	Title/Activity	Rec'd	Comment Period Close	Actual or Target Decision/ Review Date
09-006	Amend Closure Plan	04/04/12	11/24/09 ¹ 05/16/11 ² 01/19/12 ³ 10/01/12 ³	10/15/12
12-010	Shipment of Agent Contaminated Waste	04/12/12	06/11/12 ⁴ 09/20/12 ³	10/26/12 ⁵
12-007	Discontinuation of Perimeter Monitoring Network	6/20/12	08/20/12 ⁴	10/18/12
12-013	Method Enhancement in UM-000-M-559 related to wipe extraction technique	7/16/12	N/A	8/22/12
12-014	Removal of CMP Report Submittal Requirement to the Hermiston Public Library	8/02/12	N/A	9/12/12
12-018	Removal of Requirements for a Carbon Trial Burn	8/16/12	N/A	9/12/12
12-019	Waste Analysis Plan Update	8/14/12	N/A	8/22/12
	Air Quality Comprehensive Performance Test Plan ⁶	8/16/12	10/18/12	10/26/12
¹ Initial (permittee) public comment period ² Second public comment period due to significant changes ³ DEQ (draft permit) public comment period ⁴ Based on the permittees' public notice ⁵ Will come to EQC for approval ⁶ Submitted in lieu of RCRA Trial Burn Plan				

Notices			
#	Title/Activity	Rec'd	Decision
12-012	Contingency Plan Update	07/13/12	
12-014	Removal of CMP Report Submittal Requirement to the Hermiston Public Library	8/02/12	9/12/12

Umatilla Chemical Depot RCRA permitting activity

Permit Modifications Received and Under Review				
#	Title/Activity	Rec'd	Comment Period Close	Actual or Target Decision/Review Date
12-001	Revision of Igloo Closure Category Designations	06/21/12	N/A	8/10/12

Notices			
#	Title/Activity	Rec'd	Decision
12-005	Contingency Plan Update	07/12/12	8/20/12
12-007	Use of Wet Core Drilling for Demonstration Plan	07/27/12	9/19/12
12-008	Correction to UMCD Closure Plan Typographical Error	8/15/12	8/22/12

Significant events at other facilities

The U.S. Army Chemical Materials Agency has eliminated 90 percent of the national chemical weapons stockpile to date.

Tooele Chemical Agent Disposal Facility

This facility completed agent disposal operations on Jan. 21, 2012, and is in the process of disposing of secondary waste and decontamination and decommissioning work in the most contaminated areas of the plant.

Chemical Agent Munitions Disposal System

The demolition of this facility has been completed.

Anniston Chemical Agent Disposal Facility

This facility operated from Aug. 9, 2003, to Sept. 22, 2011. Facility staff are sampling and monitoring the igloos used to store materials in accordance with RCRA closure requirements. This facility will not be reused for conventional demilitarization.

Pine Bluff Chemical Agent Disposal Facility

Final demolition has started at this facility, which operated from March 28, 2005, to Nov. 12, 2010.

Newport Chemical Agent Disposal Facility

This facility is closed, and the property was transferred to the Army's Base Realignment and Closure division on July 18, 2010.

Blue Grass Chemical Agent Destruction Pilot Plant

This facility is approximately half constructed and is scheduled to begin operations in 2018. The plant, when complete, will use neutralization followed by supercritical water oxidation to destroy 523 tons of nerve and mustard agents, with hydrolysate to be processed on site.

Pueblo Chemical Agent Destruction Pilot Plant

This facility is near completion, and should be complete by the end of 2012. The facility should start operations in early 2015. The plant, when complete, will use neutralization followed by biotreatment to destroy 2,611 HD tons in artillery and mortar projectiles, with hydrolysate to be processed on site.