

Agent trial burn on schedule

The mustard Agent Trial Burn (ATB) that began April 29 is on schedule to be completed before the end of June. The UMCDf team has completed Conditions 1 and 2 of the Metal Parts Furnace (MPF) ATB.



Liquid Incinerator

The ATB tests three conditions in the MPF:

- Condition 1 – donor runs of ton containers (TCs) with up to 300-pound heels and no more than 435 pounds total. Each TC was COLIWASA (Composite Liquid Waste Sampler) sampled, spiked with HD agent, monochlorobenzene, mercury, lead and arsenic. All four runs have been completed.
- Condition 2 – recipient runs of TCs with up to 435 pounds of rinsate (mustard products and water from the Heel Transfer System). The fourth run was completed Wednesday.
- Condition 3 – High temperature test to confirm mustard destruction and removal at high exhaust gas flows.

So what's left? Methods 1-4 were completed Friday, May 21, on Liquid Incinerator (LIC) 2, which is scheduled to begin its ATB Friday. The LIC ATBs will be performed using the identified high mercury-containing TCs spiked with arsenic, lead and monochlorobenzene.

One of the permit requirements is to sample Agent Collection System (ACS)-TANK-108 before and after each run to determine agent purity and metal concentrations.

The LIC 1 ATB will follow. The LIC ATBs are expected to be completed by mid-June.

The last set of four ATB runs will be back on the MPF, where donor TCs will be fed at high temperatures. These TCs will be spiked with both HD and monochlorobenzene. Destruction and Removal Efficiency (DRE) will be measured for both mustard and for monochlorobenzene. These runs are scheduled to be completed by June 28.

Preliminary data from Conditions 1 and 2 of the MPF should be available by mid-June to support the submittal of a preliminary report and to initiate an update to the Human Health Risk Assessment.

UMCDf Highlights

- It has been 1,419 days, or more than 6.5 million work hours, since a lost-time accident occurred at the UMCDf (July 7, 2006).

Umatilla Chemical Agent Disposal Facility Processing

(May 20 - 26, 2010)

Total number of originally stockpiled HD-filled ton containers destroyed this period	25
Total number of originally stockpiled HD-filled ton containers destroyed to date	292
Percentage of originally stockpiled HD-filled ton containers destroyed to date	11.1
Total "recipient" HD ton containers* destroyed this period	5
Total "recipient" HD ton containers* destroyed to date	157
Pounds of HD agent destroyed this period	22,660
Pounds of HD agent destroyed to date	487,442
Pounds of total agent destroyed to date <i>Includes GB, VX and HD</i>	3,253,354
Total munitions destroyed to date since start of operations (Sept. 7, 2004) <i>including non-stockpile GB and VX ton containers</i>	218,275
Nominal tons of chemical agent destroyed to date	1,621.58
Percentage of total agent tons destroyed	43.62

*Recipient ton containers are byproducts of mustard disposal and were not a part of the original stockpile.

UMCD/UMCDf Milestones

- **June 11, 2009:** Began first HD ton container destruction in the Metal Parts Furnace (MPF).
- **June 4, 2009:** First HD ton containers transported from depot storage to disposal plant.
- **Nov. 5, 2008:** Completed VX munitions campaign.
- **Oct. 26, 2007:** Began VX munitions campaign.
- **July 8, 2007:** Completed GB munitions campaign.
- **Sept. 7, 2004:** Began GB munitions campaign.

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