



Rinsate emissions tests being conducted at plant

Rinsate Emissions Demonstration Test (EDT) is being conducted at the Umatilla Chemical Agent Disposal Facility (UMCDF) to quantify what is coming out of the stack from Liquid Incinerator (LIC) 2.

Rinsate processing began on April 21, 2011, and personnel on each crew have been training as feed has been ramped up to 950 lbs. per hour. Sustained operation has been demonstrated by feeding for eight hours at a time with no waste feed cutoff. The Oregon Department of Environmental Quality (DEQ) Rinsate Permit Modification Request (PMR) allowed up to 350 hours to "shakedown" the new system prior to performing an EDT at full feed rate. The UMCDF utilized 220 hours of the shakedown time and commenced Run 1 of the rinsate test on Aug. 10.

A subcontractor is on site to sample the LIC-2 exhaust for dioxins/furans, metals, semi-volatile compounds, volatile compounds, particulate matter and acid gases. The samples will be sent to off-site laboratories in California, Tennessee and Georgia for analysis. The final data will be used to compare emissions from processing rinsate to emissions from processing HD agent and will be used to update/confirm the current Human Health Risk Assessment (HHRA). In addition, five temporary monitors are being used to measure nitrogen oxides, sulfur dioxide, total hydrocarbons, carbon monoxide and oxygen in the LIC-2 exhaust duct.

The testing dates depend on having two full rinsate tanks — some ton containers drain easily and very little rinsate is produced and, conversely, some ton containers require numerous water sprays to remove the hard heel. For the EDT, once the rinsate tanks are full, then Operations personnel pull a sample from each tank. The sample is transferred to the laboratory for metal analyses. The metals results are used by Engineering to complete a Feed Rate Calculation (FRC) for each tank. Once the FRC is done for each tank, then a run can be commenced. Four total runs are planned, the last of which is being conducted today.

The Rinsate Collection System was installed earlier this year in order to minimize the number of so-called recipient ton containers created for processing through the Metal Parts Furnace (MPF). Rinsate is a byproduct generated from the removal of mustard agent from their original containers using high-pressure water sprayers.

UMCDF Highlights

- It has been 1,866 days, or more than 8.7 million work hours, since a lost work day accident occurred at the UMCDF (July 7, 2006).

Umatilla Chemical Agent Disposal Facility Processing

(Aug. 11 - 17, 2011)

Total number of originally stockpiled HD-filled ton containers destroyed this period	28
Total number of originally stockpiled HD-filled ton containers destroyed to date	2,215
Percentage of originally stockpiled HD-filled ton containers destroyed to date	84.1
Total "recipient" HD ton containers* destroyed this period	16
Total "recipient" HD ton containers* destroyed to date	773
Pounds of HD agent destroyed this period	50,365
Pounds of HD agent destroyed to date	3,954,544
Pounds of total agent destroyed to date <i>Includes GB, VX and HD</i>	7,335,209
Total munitions destroyed to date since start of operations (Sept. 7, 2004) <i>including non-stockpile GB and VX ton containers</i>	220,171
Nominal tons of chemical agent destroyed to date	3,355.13
Percentage of total agent tons destroyed	90.26

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

UMCD/UMCDF Milestones

- **June 27, 2010:** Completed mustard Agent Trial Burn for Metal Parts Furnace (MPF) and Liquid Incinerators (LICs).
- **June 11, 2009:** Began first HD ton container destruction in the 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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