Closure Plan for 276-BA Organic Storage Area at the Hanford Site

Public Meeting

May 17, 2016

RICHLAND OPERATIONS OFFICE
United States Department of Energy

Agenda

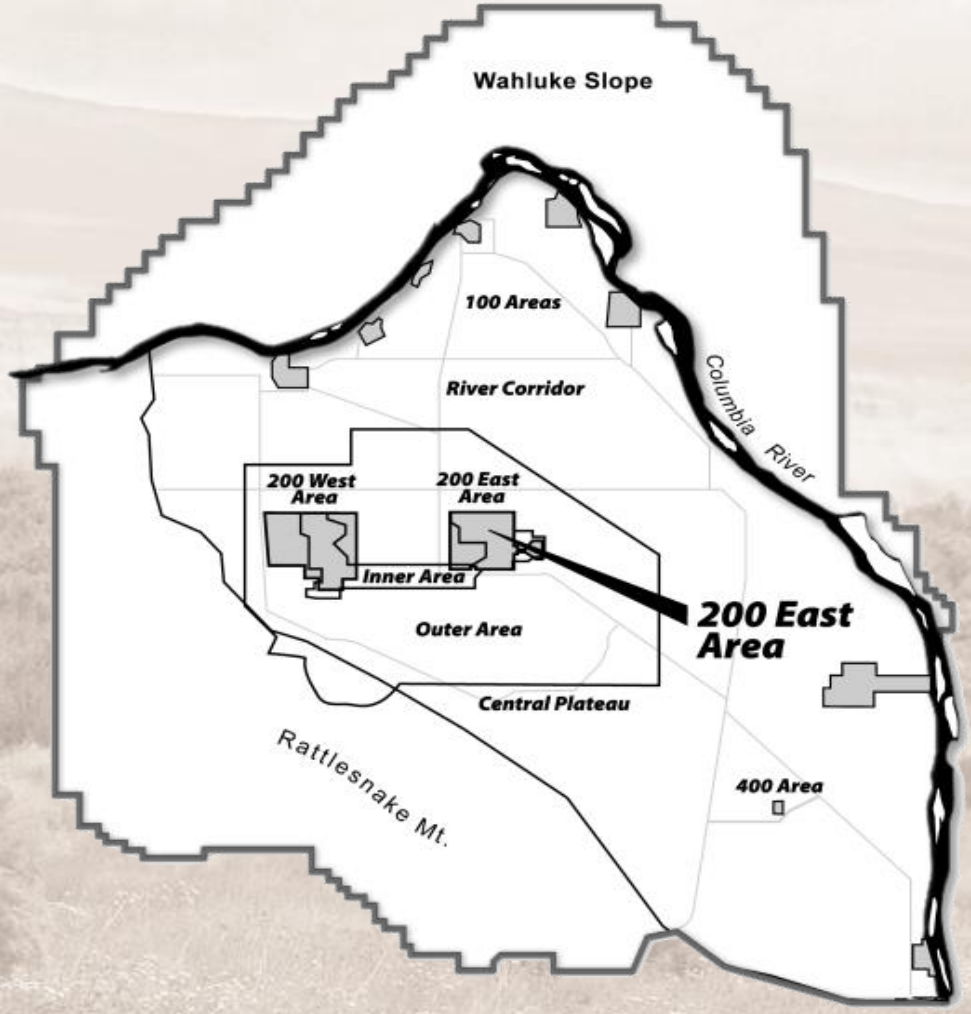
- Meeting Purpose
- Background
- Proposed Closure Plan
- Questions/Clarifications on Presentation
- Formal Public Comment
- Closing

Public Meeting Purpose

- Provide information and answer questions about the draft Closure Plan for the 276-BA Organic Storage Area
- Provide a forum to give input on the draft Closure Plan
- Provide information on other ways to submit your input

Background – 276-BA Organic Storage Area

- Located in the Hanford Site's 200 East Area B Plant Complex
- Constructed in 1996
- Consists of a single stainless-steel storage tank (ISO East) and secondary concrete containment pad



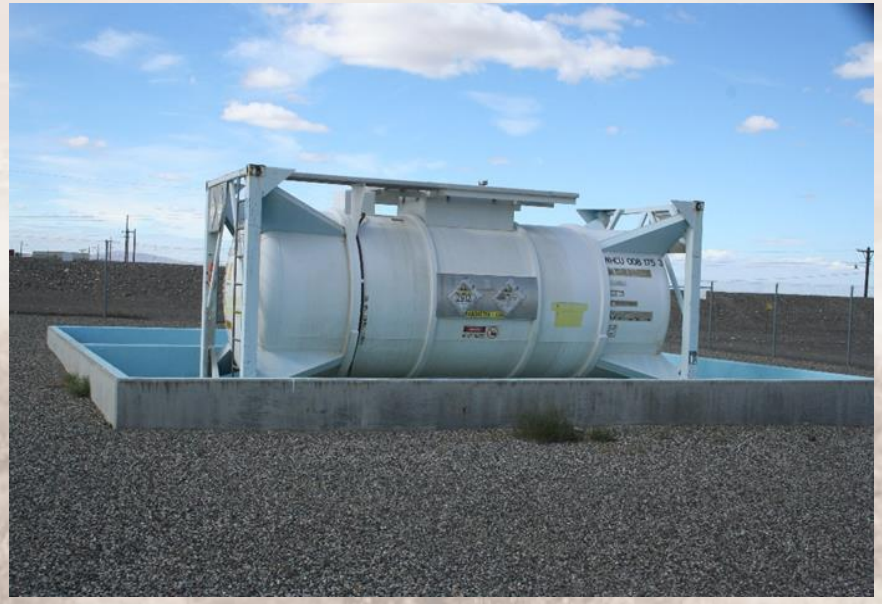
Background - B Plant Organic Mixed Waste Storage System

- B Plant Organic Mixed Waste Storage System was used for chemical processing and to store organic chemicals used in the recovery and purification of strontium
- Contained within the B Plant Facility
- Generated waste that was transferred to the ISO-East tank

B Plant was one of Hanford's earliest plutonium processing facilities.

Background - ISO-East Tank

- ISO-East tank received organic waste from the B Plant Organic Mixed Waste Storage System
- Organic solvent stored in the ISO-East tank was managed as mixed waste and included waste in the following categories:
  - Metals monitored by the *Resource Conservation and Recovery Act* (RCRA)
  - Corrosive waste
  - Solvents
  - Other wastes



The tank has a capacity of 17,500 liters (4,623 gallons).

Background – ISO-East Tank

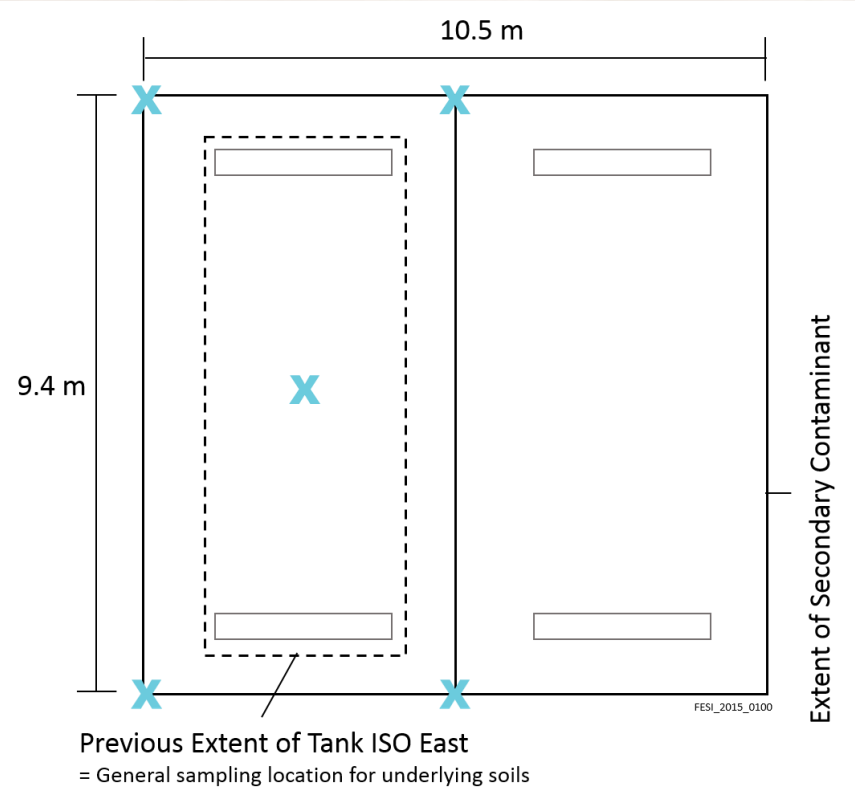
- In March 1997, the organic mixed waste was pumped from the B Plant Organic Mixed Waste Storage System to the ISO-East tank, which was staged on a flatbed hauler
- Approximately 10,900 Liters (2,880 gallons) was transferred to the ISO-East tank
- The tank was then moved to the secondary concrete containment pad at the 276-BA Organic Storage Area (its current location)
- Waste was transferred out of ISO-East tank for disposal in November 1997

Proposed Closure Plan

- DOE is proposing that the 276-BA Organic Storage Area will be clean closed, as called for in *Washington Administrative Code* (WAC) 173-303-610, "Dangerous Waste Regulations" and "Closure and Post-Closure"
- Clean closure has more stringent cleanup requirements than standard closure and requires that the soil be sampled and meet clean closure levels in addition to meeting the objectives for standard closure, which are:
  - Minimize the need for further maintenance
  - Control, minimize, or eliminate post-closure escape of any products to the ground, surface water, or atmosphere to protect human health and the environment
  - Return the land to the appearance and use of surrounding lands

Clean Closure Actions

- The 276-BA Organic Storage Area will be clean closed by:
  - Removing the ISO-East storage tank and secondary concrete containment pad, including up to 1 meter (3 feet) of soil beneath the structure
  - Sampling the bottom of excavation to see if there's a need to excavate more soil
  - If sampling indicates that there is soil contamination above the set limits, additional soil will be removed and resampled
- Clean closure levels for soil are based on *Washington Administrative Code* (WAC) 173-340, "Model Toxics Control Act-Cleanup"



Proposed sampling locations where the ISO-East tank is currently located

Tank and Secondary Concrete Containment Pad Removal

- Facility demolition will include removing the ISO-East tank and the secondary concrete containment pad
- The ISO-East tank will be removed intact using a flatbed hauler
  - Any residual heel (waste remaining in the tank that was unable to be pumped out) will be stabilized for disposal
  - Absorbent material will be added to stabilize any remaining liquid
- Heavy equipment will be used to demolish the secondary concrete containment pad
  - Contamination controls will be used when necessary, including water to control dust, portable ventilation filter units, high-efficiency particulate air filter vacuum cleaners, portable containment tents, and/or fogging agents

Waste Disposal

- The waste will be treated, if applicable, to meet State and Federal disposal requirements (WAC 173-303-140, “Land Disposal Restrictions” and 40 CFR 268, “Land Disposal Restrictions”)
- The waste will be disposed of in the Hanford Site Environmental Restoration Disposal Facility (ERDF)

Public Comment Opportunities

- Public comments due by June 24, 2016
  - Provide verbal comments during this meeting
  - Submit written comments tonight on provided form or
  - Submit written comments by email Hanford@ecy.wa.gov or mail:

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- DOE will consider and address all significant comments

Questions?

Public Comment