



Hanford Cleanup Progress Update

Hanford Advisory Board

Greg Jones

*Department of Energy, Richland Operations Office,
Assistant Manger for Business and Finance*

March 2014



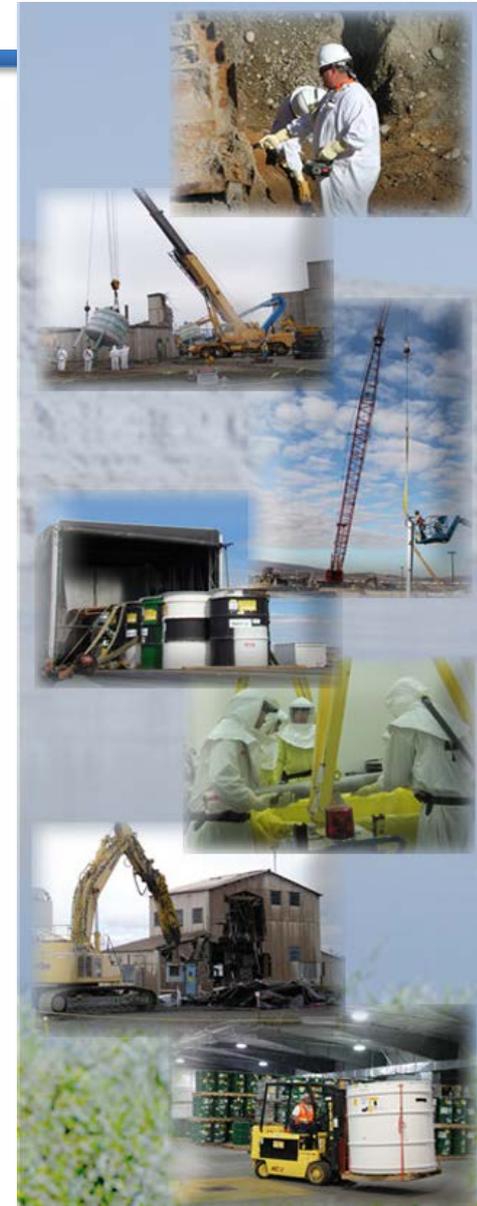
Richland Operations Office

- Site landlord (utilities, security, emergency services)
- Move buried waste, contaminated soil away from Columbia River
- Treat contaminated groundwater
- Deactivate and decommission facilities
- Isolate/contain contamination on Central Plateau
- Approx. 4,300 contractor and federal employees



Richland Cleanup Priorities

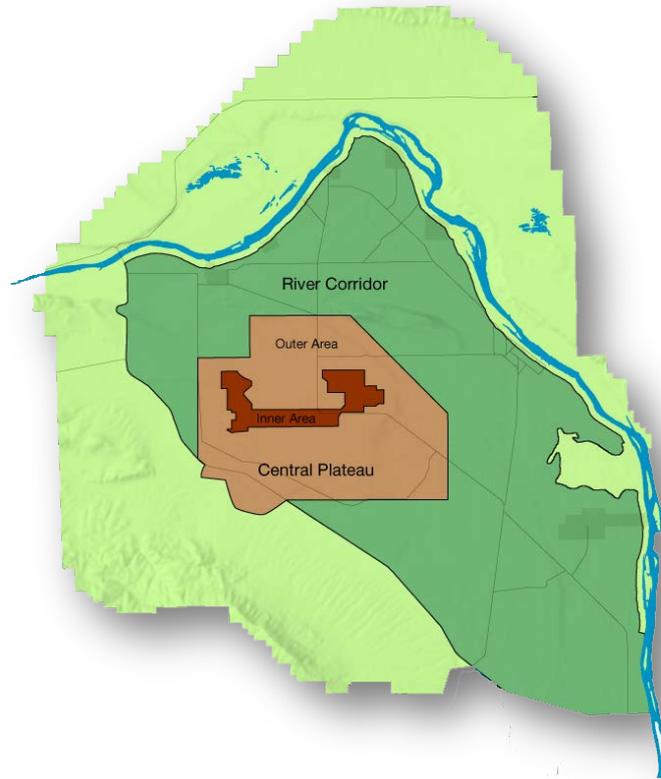
- Maintain safe, secure and compliant activities, facilities and operations
- Continue River Corridor cleanup, including remediation of 618-10 Burial Ground
- Continue Plutonium Finishing Plant deactivation, decommissioning, and demolition
- Continue groundwater pump and treat operations, install and connect new and existing wells to maximize remediation effectiveness
- Implement additional groundwater remedies required by River Corridor and Central Plateau Records of Decision; includes uranium and strontium remediation



Richland Cleanup Priorities

- Continue remedial investigation/feasibility study process for River Corridor and Central Plateau areas
- Continue preparations for 324 Facility deactivation, decommissioning, demolition and soil remediation (River Corridor)
- Complete phase one of radioactive sludge project: move sludge from K West Basin near the Columbia River to interim storage in the Central Plateau
- Move cesium, strontium capsules stored underwater in Waste Encapsulation Storage Facility into dry storage





Hanford Site

RIVER CORRIDOR



300 Area Progress – Before and Now



1977

For nearly 60 years, the 300 Area was the center of Hanford's radiological research and fuel fabrication. Located just 1.5 miles north of the City of Richland, the research and fabrication work resulted in highly contaminated facilities and waste sites, and a large inventory of radioactive material.

2014



300 Area Progress – 324 Facility



300 Area Progress – Test Reactor

***Removed, Transported 309
Plutonium Recycle Test Reactor
to Environmental Restoration
Disposal Facility in January***



The reactor and lifting system were placed onto a transport trailer. The combined weight was more than 3 million pounds.



The Reactor was transported approximately 20 miles from the 300 Area to the Environmental Restoration Disposal Facility for disposal.

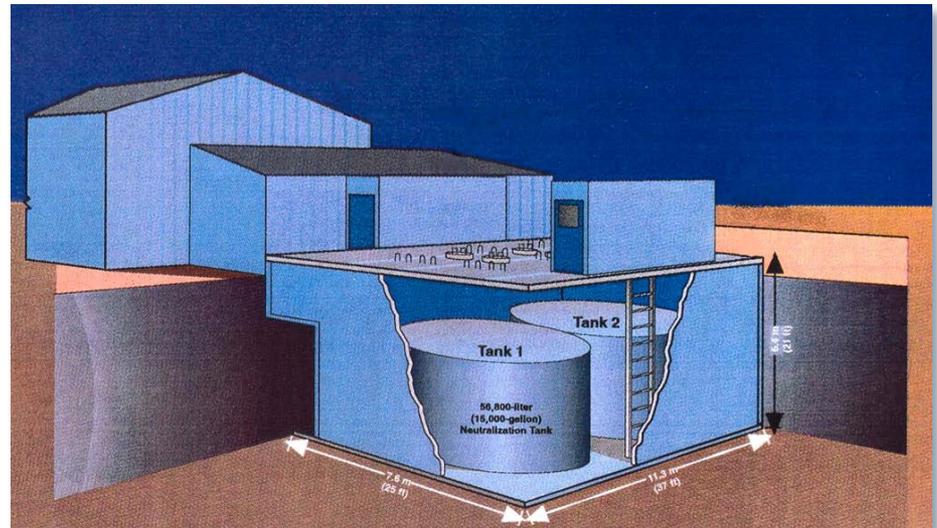


300 Area Progress – Tank Vault Removal

Transported 340 Tank Vault to Environmental Disposal Facility in February



Concrete pad and steel pan placed beneath the 1,153 vault. The vault was grouted in the pan and placed on a special trailer for transport to the disposal facility.



300 Area Progress – 618-10 Burial Ground

- Burial Ground supported operations in 300 Area during Cold War
- Contains both low-level and transuranic waste
- Progress:
 - *Retrieval began April 2011*
 - *More than 97,000 tons of waste from trenches disposed*
 - *More than 500 drums removed*
- In 2014, will continue remediation of trenches and conduct demonstration of technology to remediate vertical pipe units



Workers sampling drums retrieved from one of the trenches



100-K Progress – Sludge Removal Project

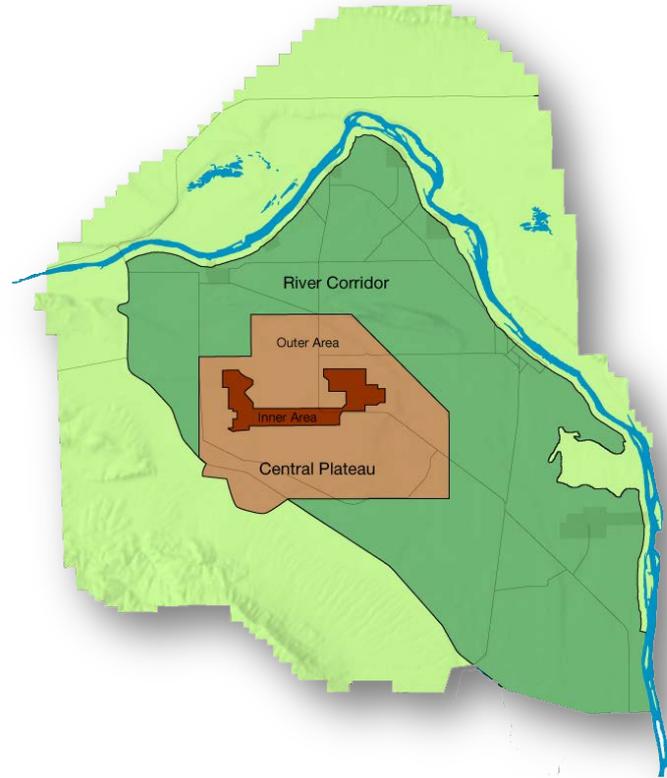
2013

- *Started building annex at K West Reactor to support removing radioactive sludge*



2014

- *Continue annex construction*
- *Start modifying reactor basin to prepare for installing sludge removal system*
- *Start buying equipment for removing sludge*
- *Finish design for modifications to T Plant (facility in the Central Plateau designated for receiving and storing the sludge)*



Hanford Site

CENTRAL PLATEAU

Plutonium Finishing Plant

- 2014 Key Focus Areas
 - Remove 13 glove boxes (3 removed to date)
 - Dispose of 25 pencil tank units – crane in Plutonium Reclamation Facility has been repaired (10 disposed of to date)
 - Demolish 9 ancillary facilities
- Evaluate glove box disposition options (e.g., foaming)



Sealing out pencil tank



Testing severed electrical cable from ancillary buildings



Removing overhead electrical wires that once serviced ancillary buildings, which are slated for demolition in April

Environmental Restoration Disposal Facility

- Disposed of ~224,000 tons of waste in the first quarter of Fiscal Year 2014 (October – December)
- Disposal of ~343,000 tons planned for second quarter of Fiscal Year 2014 (January – March)
- Received and disposed of of:
 - 309 Plutonium Recycle Test Reactor
 - 340 Vault
 - 3730 hot cell
- Treated and disposed of all long-length items received from Tank Farms to date



*Disposal of 3730
Gamma Monolith at
ERDF*

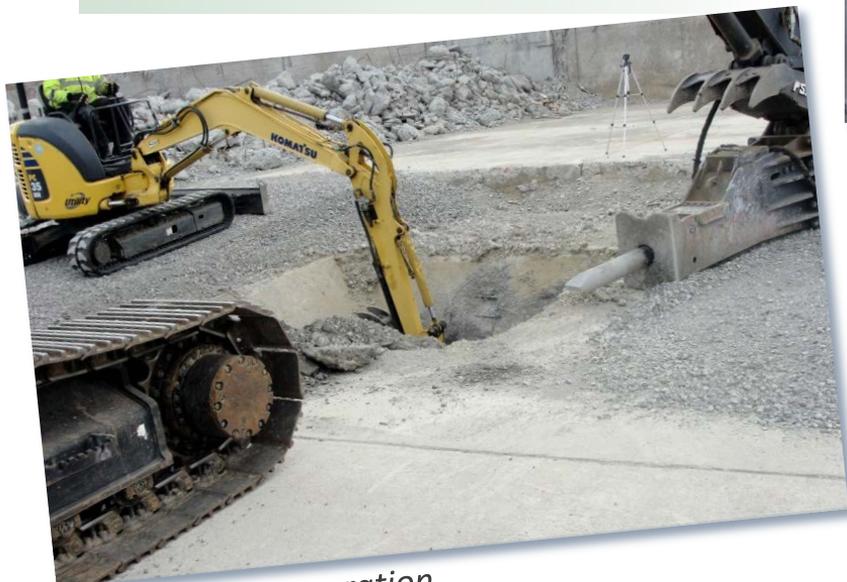


Environmental Restoration Disposal Facility – more than 15 million tons of contaminated waste disposed of to date

Groundwater

Key Focus Areas:

- Expand pump and treat systems
- Continue progress on decision documents
- Drill additional wells



Well drilling preparation



200 West Pump and Treat Facility – online and treating groundwater



Installing aquifer sampling tubes

Public Involvement/Outreach Activities

2014 Hanford Site and B Reactor tour season is beginning soon

- Registration opened this week
- Tours are free and seats are filled on a first-come, first-served basis

February 3 – March 3: Comment period on Perched Water Engineering Evaluation/Cost Analysis:

February 18 – April 18: Comment period on 2014 Lifecycle Scope, Schedule and Cost Report:

April: State of the Hanford Site Meetings

TBD this spring: Fiscal Year 2016 Hanford Site Budget Meeting and Workshop

Go to the Events Calendar section of www.hanford.gov for more info.

Find Out More

Go to

www.hanford.gov

to learn about

- Latest news on Hanford cleanup progress
- Upcoming opportunities for input on cleanup decisions
- Upcoming tours
- How to book a speaker
- Hanford newsletters
- Hanford social media sites

