



# Richland Operations Office HAB Agency Update Doug S. Shoop, Manager

**RICHLAND**  
**OPERATIONS OFFICE**  
United States Department of Energy

# PUREX Tunnel 1



- *One-year after partial collapse*
- *Tunnel 1 stabilized*
- *Tunnel 2 in progress*
- *Collapse precipitated risk evaluation*

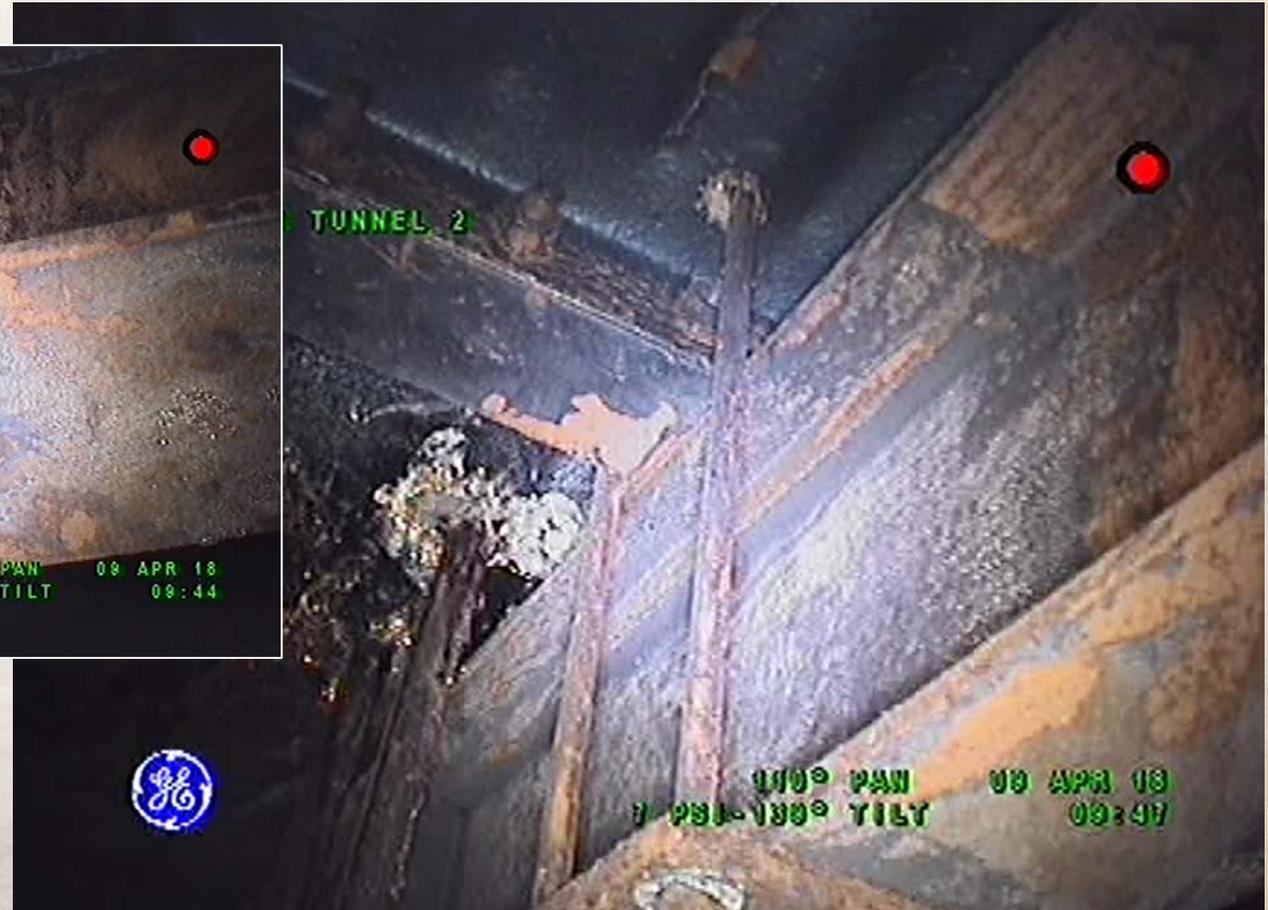




# PUREX Tunnel 2

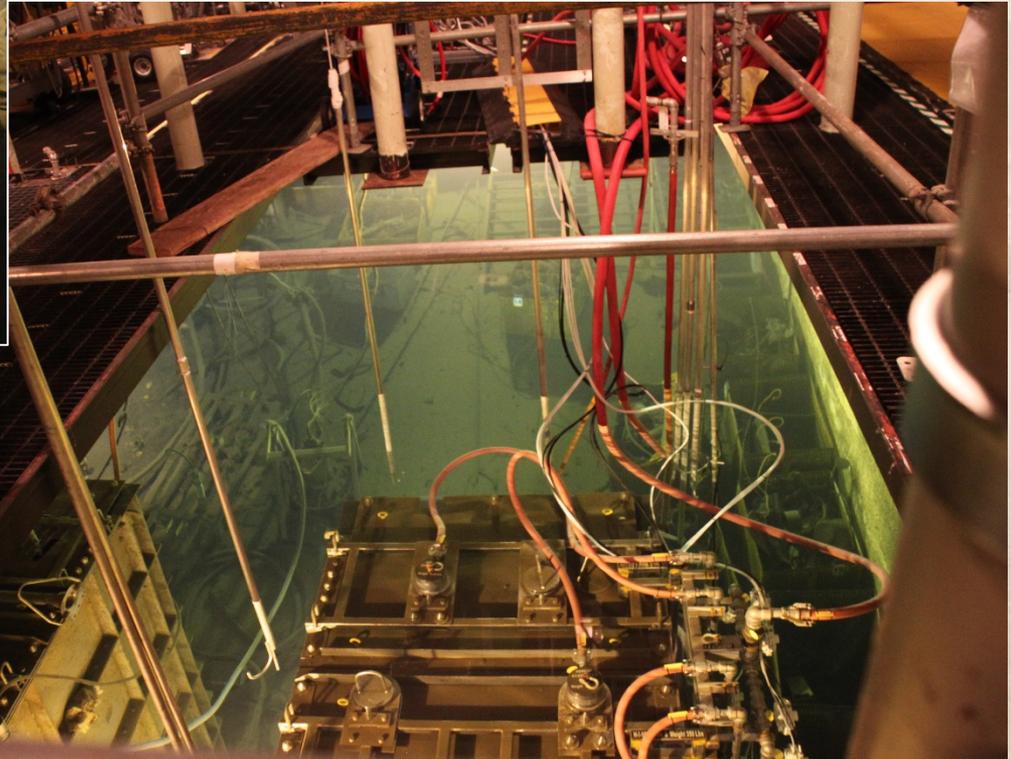


*Corrosion at Riser 16*

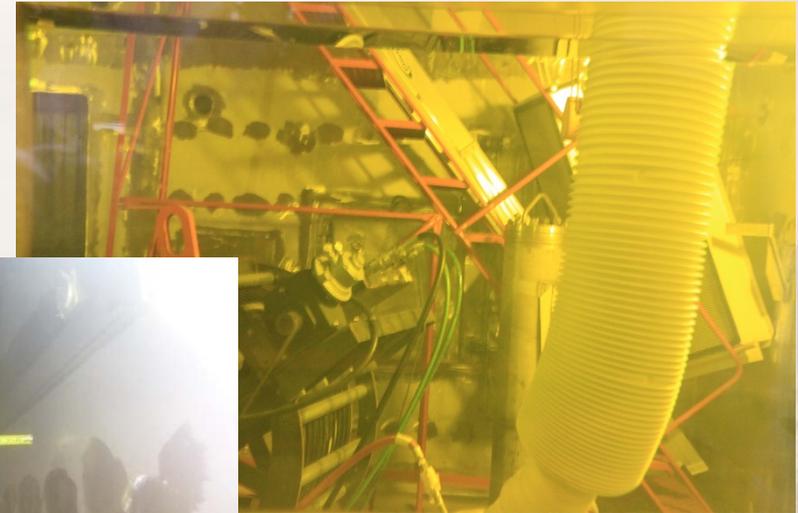
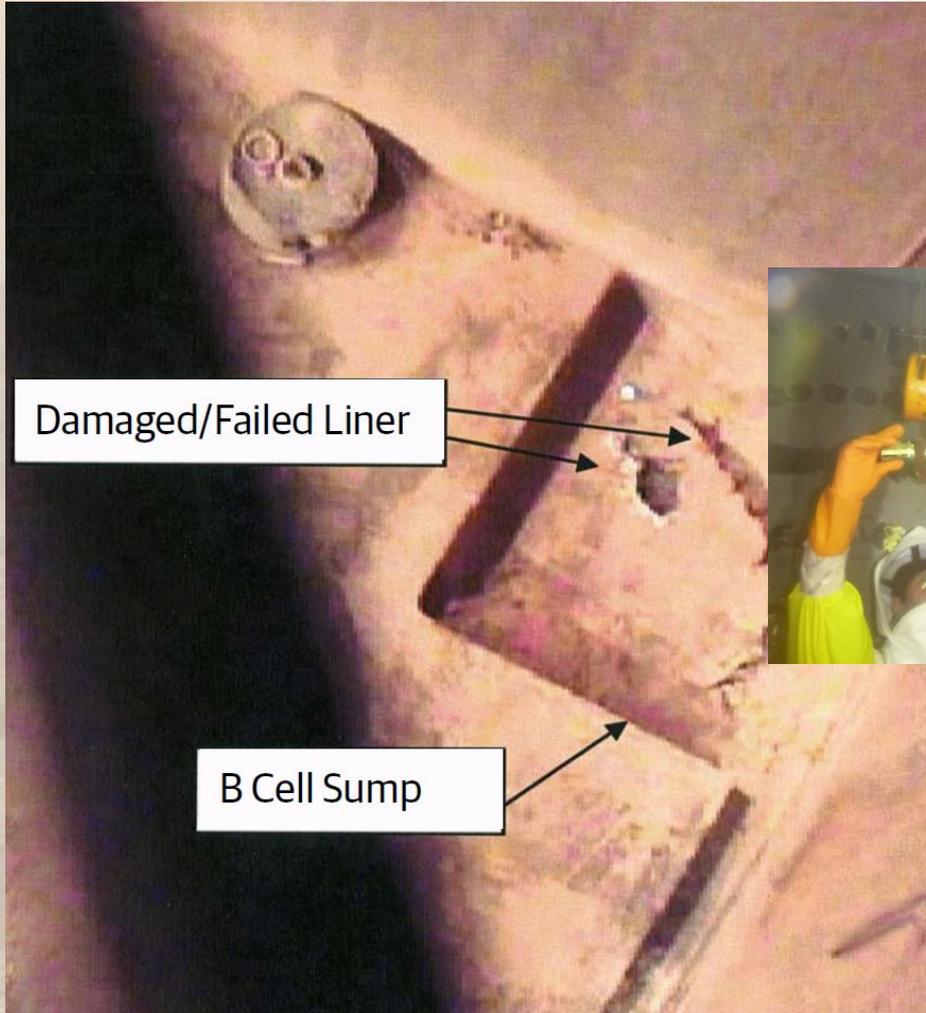


# K Area Sludge Removal Project

- *Sludge transfer*
- *Sand and garnet filter removal*
- *Characterization and debris removal*
- *Dewatering and grouting*



# 324 Building and 300-296 Waste Site Preparations to Remediate Contaminated Soil

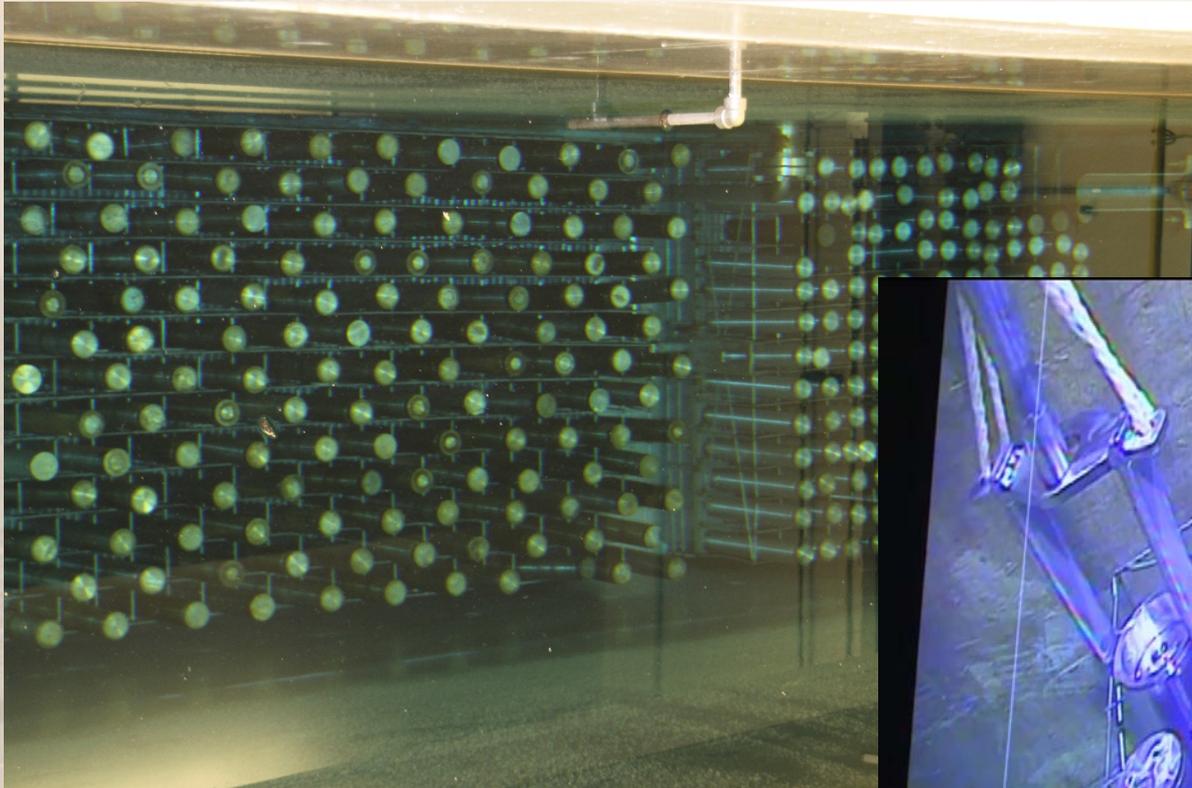


324 hot cell debris



324 mock-up facility

# Cesium and Strontium Capsule Dry Storage



*A video probe is used to view a close up of the capsules.*

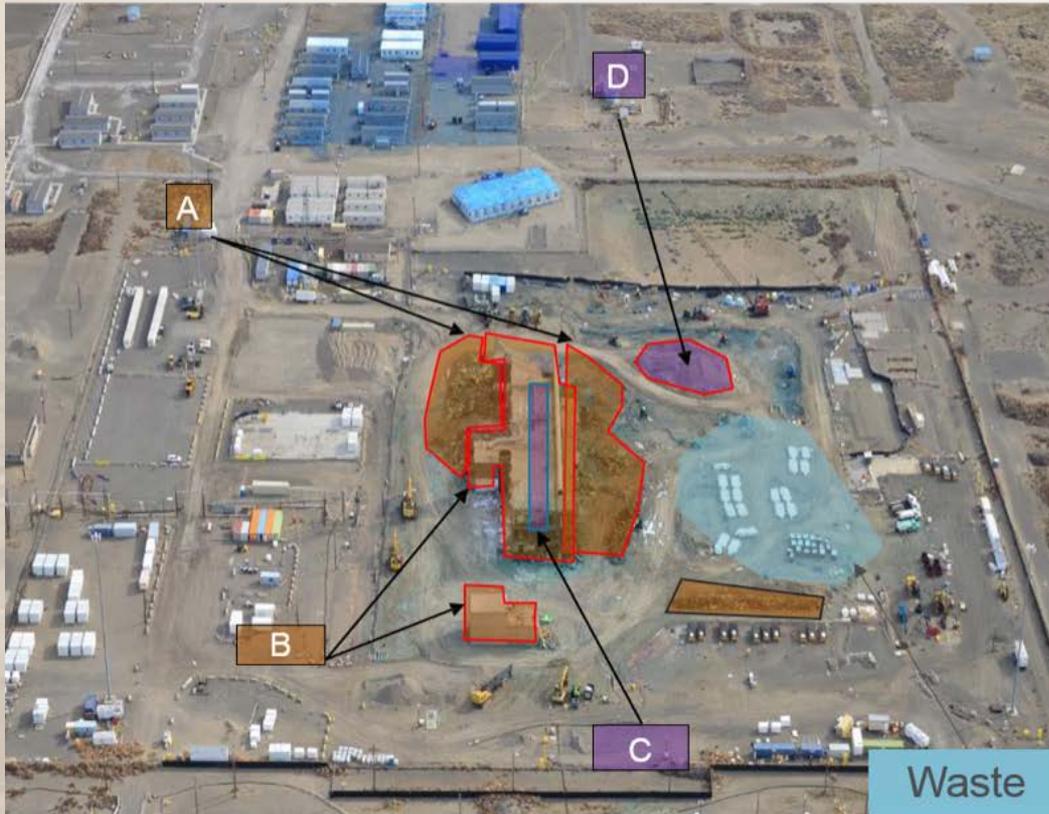


# Legacy Waste Processing



# Plutonium Finishing Plant

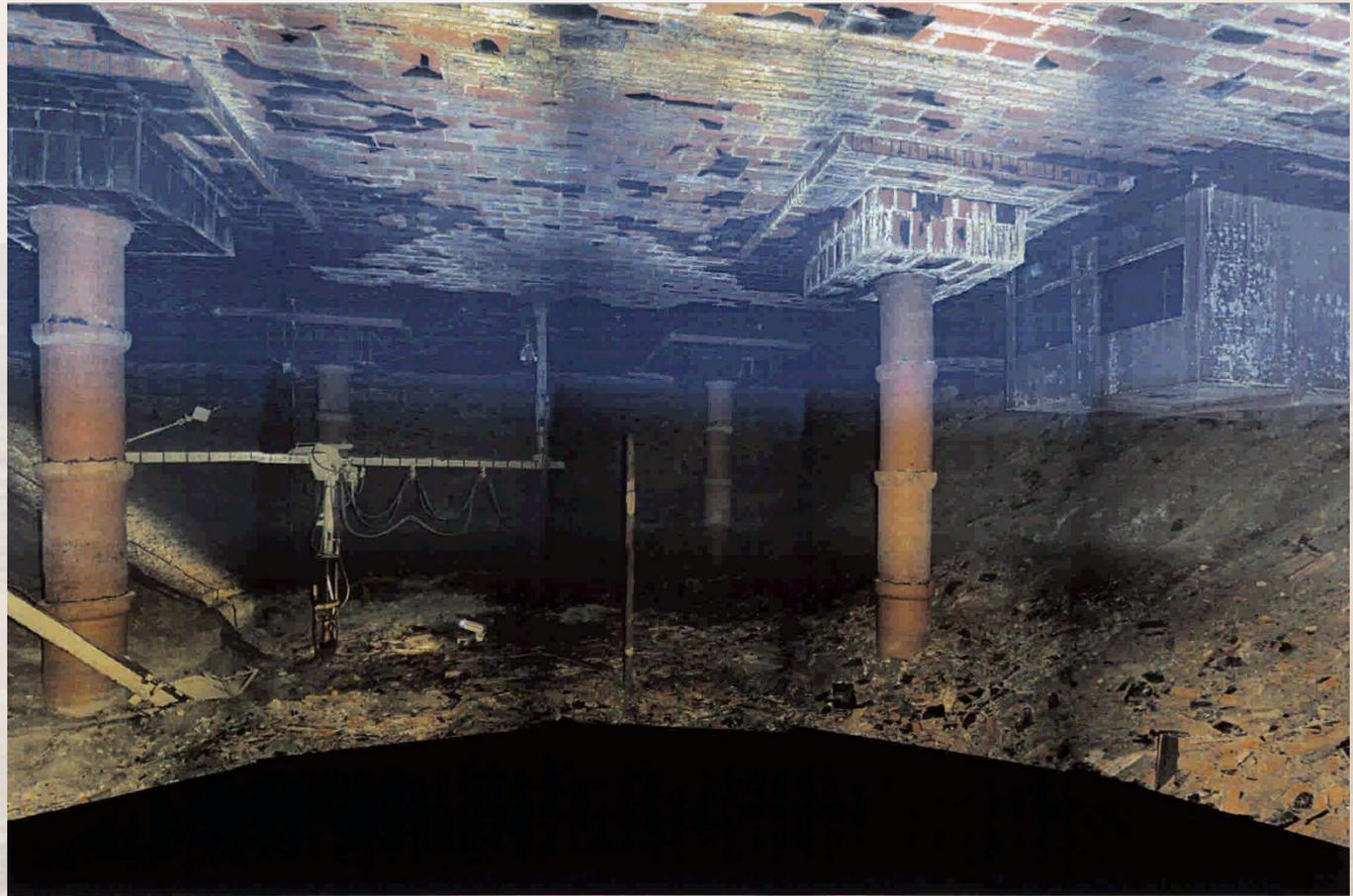
Risk based on material-at-risk (MAR) and surface contamination configuration



Containerized Waste		
Super Sacks	60%	1835g
Other	30%	912g
<b>Subtotal</b>	<b>90%</b>	<b>2747g</b>

## 216-Z-9 Crib External Structures Risk Mitigation

*Interim stabilization of the Z-9 Crib is a high-risk priority due the combination of the possibility of collapse and plutonium it contains.*



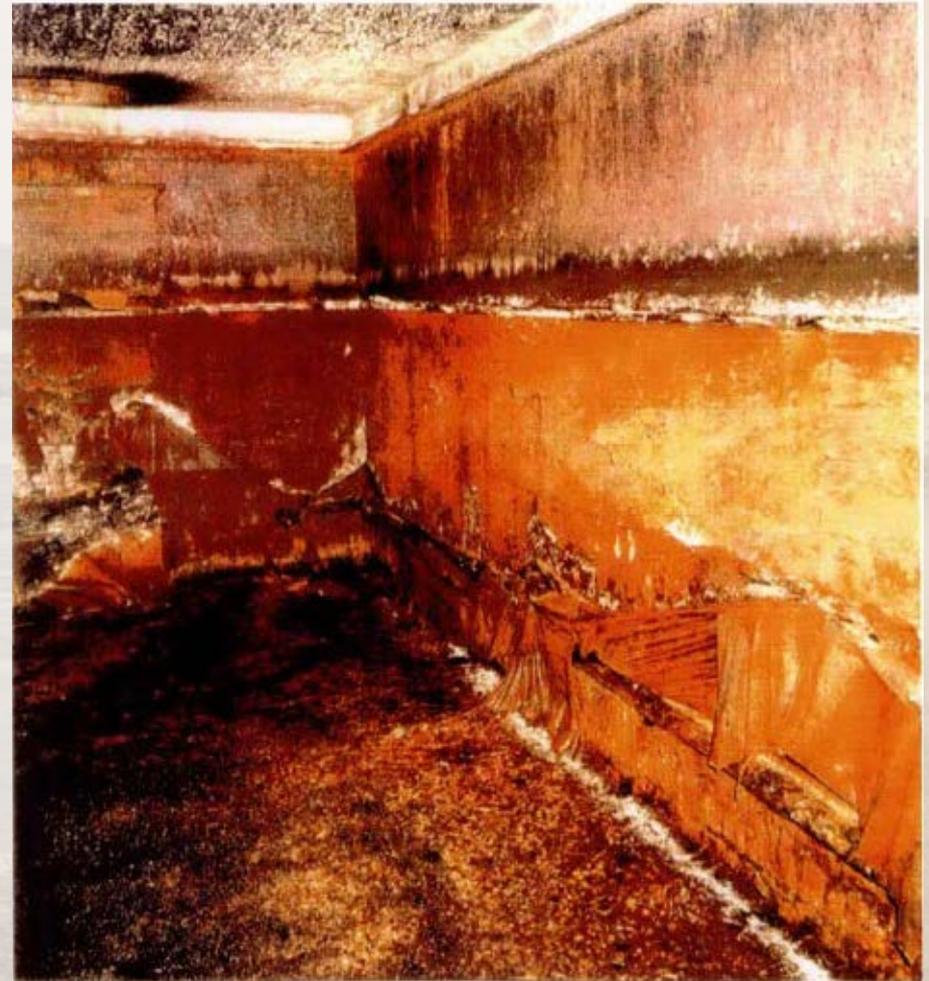


# Legacy Tanks

Tank 241-Z-361



*Deteriorated roof, damaged toward the Northeast Corner*



# Collapsed cribs and tank covers



216-Z-1 crib collapse

216-C-9 crib collapse



241-CX-70 tank cover collapse

# Excess Facility Risk Mitigation

- *Hot cell cleanout (Plutonium)*
- *Unknown conditions in hot cells*
- *Removal of remaining alpha contamination*
- *Building D&D*



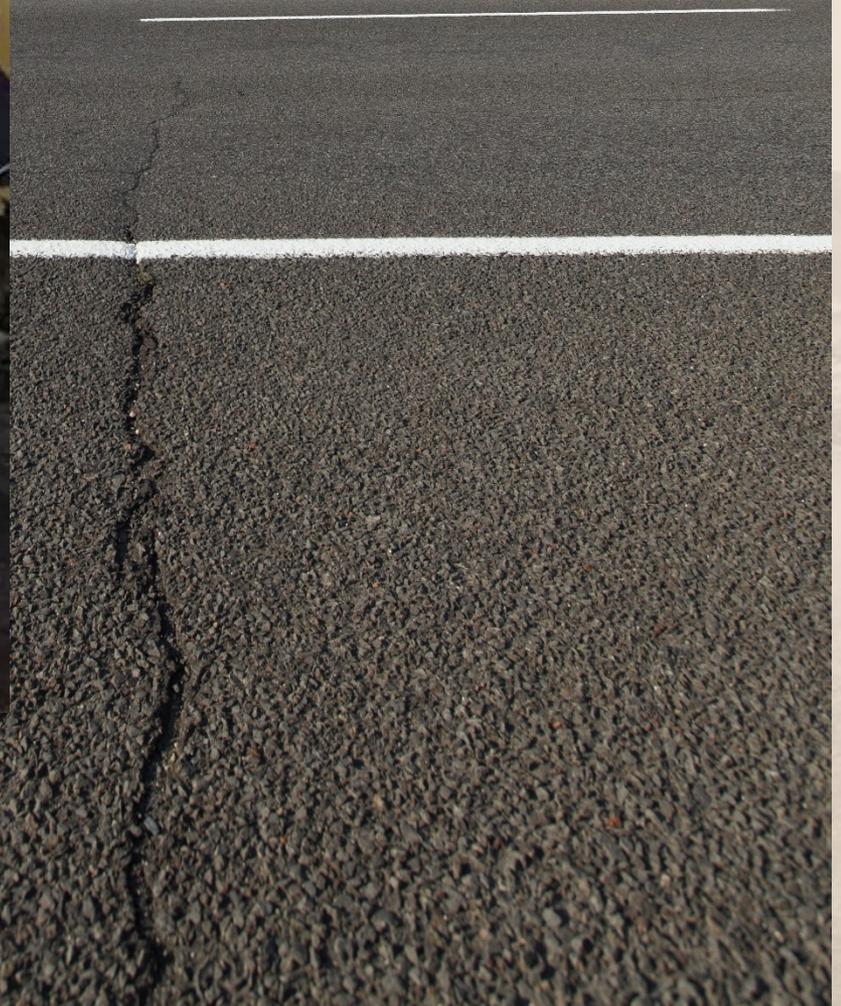
224B Building



224T Building



# Hanford Site Infrastructure



# Hanford Site Infrastructure



# How Can You Get Involved?



[www.hanford.gov](http://www.hanford.gov)



[www.facebook.com/hanfordsite](http://www.facebook.com/hanfordsite)



[www.twitter.com/hanfordsite](http://www.twitter.com/hanfordsite)



[www.youtube.com/hanfordsite](http://www.youtube.com/hanfordsite)



[www.hanford.gov/page.cfm/HanfordStory](http://www.hanford.gov/page.cfm/HanfordStory)