

*Department of Energy  
Richland Operations Office  
Agency Update*

# Hanford Advisory Board

*March 31, 2011*

*Nick Ceto*

*Record of Decision Program Manager  
DOE Richland Operations Office*



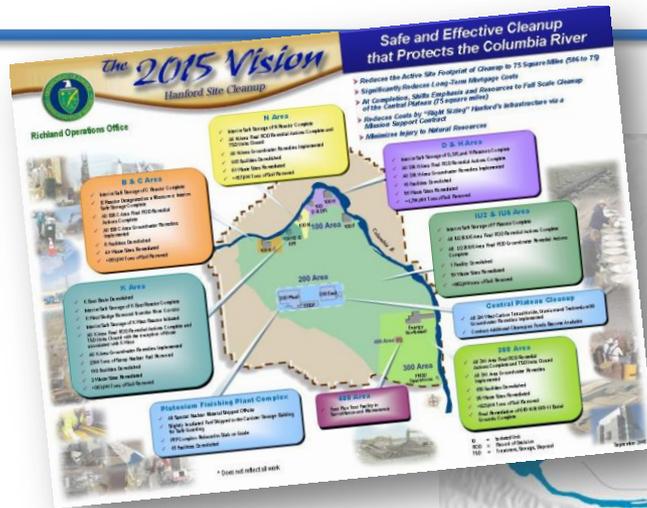
# Complete Hanford Site 2015 Vision

*Building on ARRA momentum, Richland Operations Office team will:*

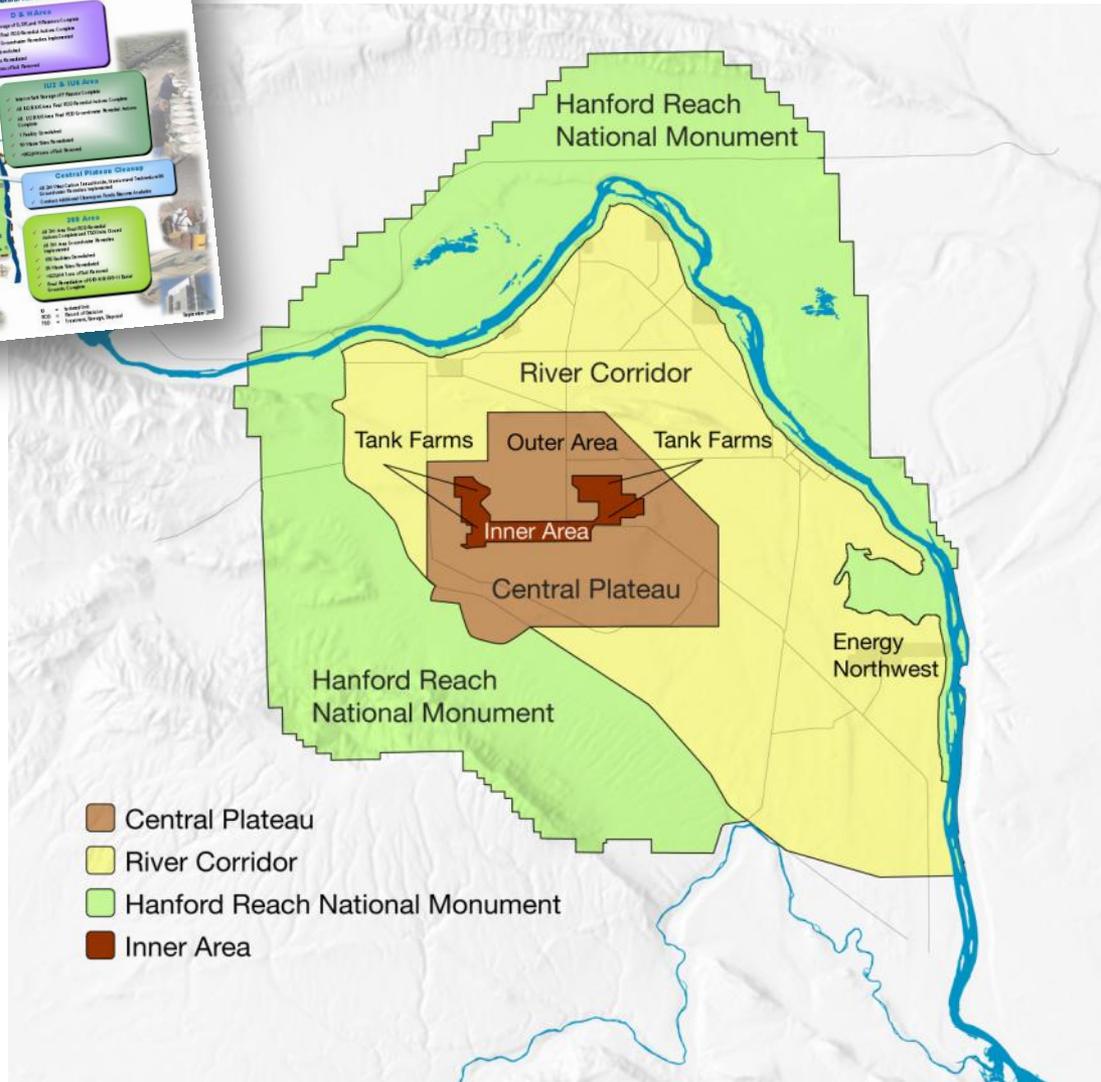
- ✓ Shrink the active cleanup footprint by 90% Hanford footprint reduced from 586 square miles to 75 square miles. Deactivate and demolish over 487 Buildings
- ✓ Protect the Columbia River Remove contaminated soil and solid waste adjacent to the river and stop key contaminants from entering the river
- ✓ Complete Clean Out and Demolish the Plutonium Finishing Plant Complex Deactivate and demolish over 80 facilities/structures. Eliminates the highest risk nuclear facility on the Hanford Site by the end of 2013.
- ✓ Contain key contaminants on the Central Plateau Install critical groundwater pump and treat systems by 2012, and operate them to contain key contaminants to the center portion of Hanford so they do not reach the Columbia River in the future.
- ✓ Disposition 90% of legacy TRU waste by 2015
  - Continue transuranic waste retrieval from underground storage, treating for disposal and shipping TRU waste to the Waste Isolation Pilot Plant
  - Retrieval of stored TRU waste is 66% complete (about 10,000 m3 out of 15,000 m3)
- ✓ Reduce Hanford Site infrastructure costs by 10% As a result of shrinking the active cleanup footprint, costs associated with infrastructure and site services are reduced by at least \$25 Million per year starting in FY 2015.



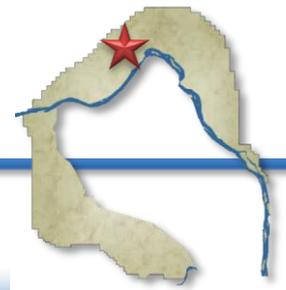
# Hanford Cleanup Footprint Reduction



## Four Areas of Cleanup



# Hanford Reach National Monument



*North Slope*



# Hanford Reach National Monument



*Arid Lands  
Ecology Reserve*



# River Corridor – Progress Update



# River Corridor – Progress Update



*337-B Facility*



# River Corridor – Progress Update



618-11 Burial Ground



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# River Corridor – Progress Update



*F Area Field  
Remediation*



# River Corridor – Progress Update



*N Reactor Fuel Storage Basin*



*181-NE River Structure Divers*



*181-NE River Structure Pumps*

# River Corridor – Progress Update



105-KE D&D

*Sedimentation Basin*



*Collecting Sludge Samples*

# River Corridor – Progress Update



*181-KE Berm  
Completion*



*Infrastructure  
& Utilities  
Upgrades*



# C-7 Excavation for Chrome



C Reactor

# Groundwater Progress Update



*100 HX Treatment Facility*



# Groundwater Progress Update



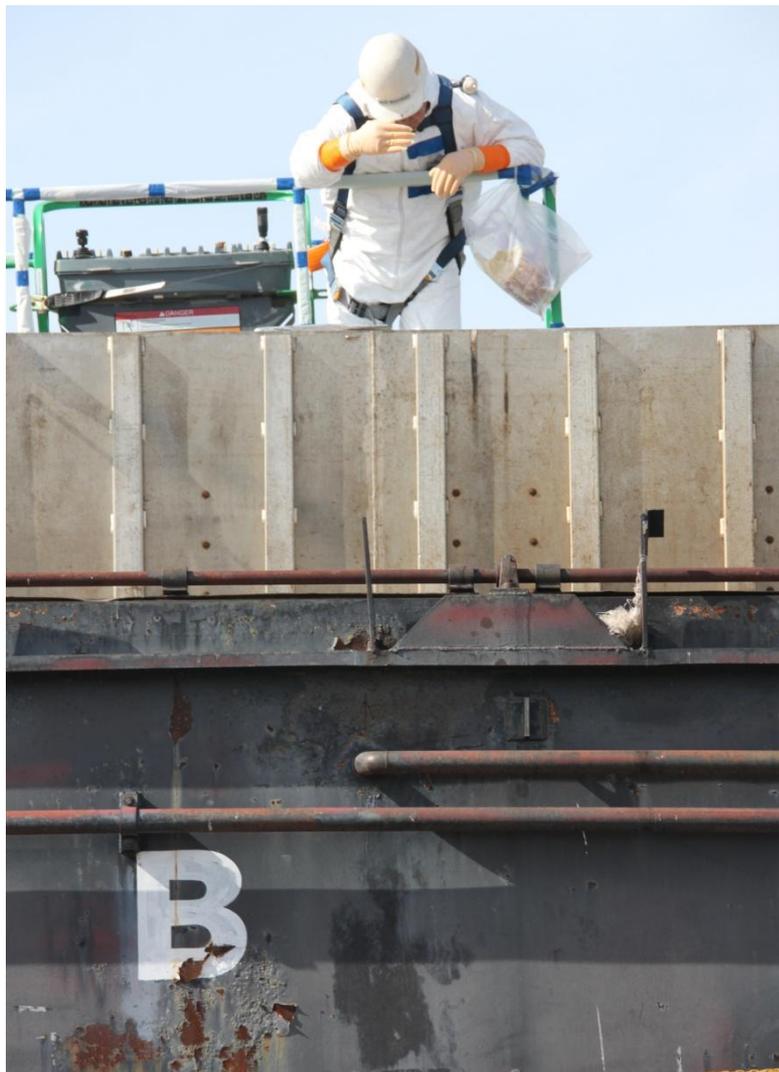
*DX Treatment Facility*



# Central Plateau Outer Area



# Central Plateau Outer Area



*200-N Railcar*



# Central Plateau Outer Area



*BC Control Area*



# Central Plateau Inner Area Pump and Treat Facility - Progress



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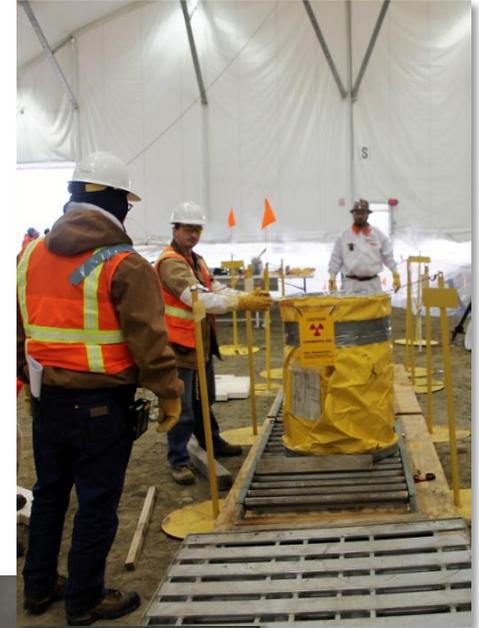
# Central Plateau Inner Area Plutonium Finishing Plant



*"Pencil Tanks" at Plutonium Reclamation Facility*



# Central Plateau Inner Area Trench Cleanup



# Central Plateau – Progress Update



*Ancillary  
Demolition*

*U Plant*

Before



*Core Drilling*

After



# Central Plateau Inner Area Environmental Restoration Disposal Facility



*Leachate Cover*

*Super Cell 9*



# Central Plateau – Progress Update



*284-E Power House Explosive Demo*



*284-W Power House Explosive Demo*



*2902-E Water Tower*



*284-E Power House Demo*



# Central Plateau – Inner Area

## *Deep Vadose Zone*



*Soil Desiccation Test  
Injection Wells*



# Public Involvement/Outreach



- The Area: A Journey through the Hanford Nuclear Reservation
  - New tool for education and outreach
  - Features Susan Leckband
- The Hanford Story
  - New chapters underway
- Public Tour Program
  - All 2,548 seats filled up within 8 hours (half within 1 hour)
    - 12 different countries and 250 American cities
  - Another 2,100 seats filled up for B Reactor Tours
- Hanford Speakers Bureau FY 11
  - 27 presentations given, 9 more currently scheduled
  - Over 1,000 people

# Beryllium Program Success Factors (In Priority Order)

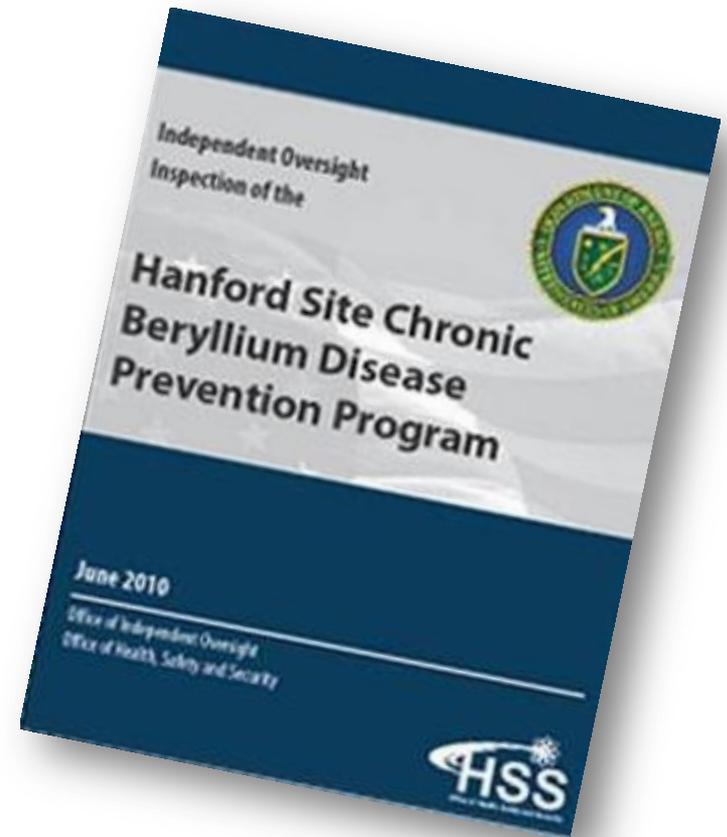
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- These success factors were developed by the Hanford A Metal Trades Council (HAMTC), the Beryllium Awareness Group (BAG), DOE field offices and Hanford Site contractors (also known as the “Team”).
  - Develop and implement a best-in-class Hanford Site Chronic Beryllium Disease Prevention Program (CBDPP) to ensure worker protection.
  - Reach consensus with the Hanford Atomic Metal Trades Council (HAMTC), Beryllium Awareness Group (BAG) , and site contractors on the new Hanford Site CBDPP.
  - Complete corrective actions on time.

# Beryllium CBDPP Corrective Action Plan (CAP) Status

- The Team found more time was needed to completed corrective actions.
- The Team decided that the schedule should not be the driving factor in addressing deficiencies in the CBDPP.
- The Team developed clear expectations on the products that would be developed to address each corrective action (e.g., procedures, processes).
- The Team is developing a new integrated schedule for completing corrective actions.



# Raising Awareness about Beryllium



- The Team conducted all-employee briefings on beryllium awareness for DOE and contractor employees across the Hanford Site (Feb. – March)
- The Team, along with the Department of Labor and DOE Office of Health, Safety & Security, also conducted briefings for former workers in Richland on March 14 and hopes to conduct another meeting in the future
  - Approximately 120 people attended the meeting
  - Approximately 40 people signed up for the former worker medical screening program