

DEPARTMENT OF ENERGY

Office of River Protection

HANFORD SITE

February 9, 2012

***Agency Update to
Hanford Advisory Board***

Stacy Charboneau
Deputy Manager



ORP Activities

One System Integrated
Project Team

Tank retrievals

Installation complete on the
PT Facility's fifth elevation of
concrete walls.

Continue large-scale testing
for Pretreatment

Community
outreach



*Crews installed thermocouples
on waste transfer lines to improve
temperature monitoring*



*Crews installed a modified slucier with
extended reach capabilities into Tank C-112*

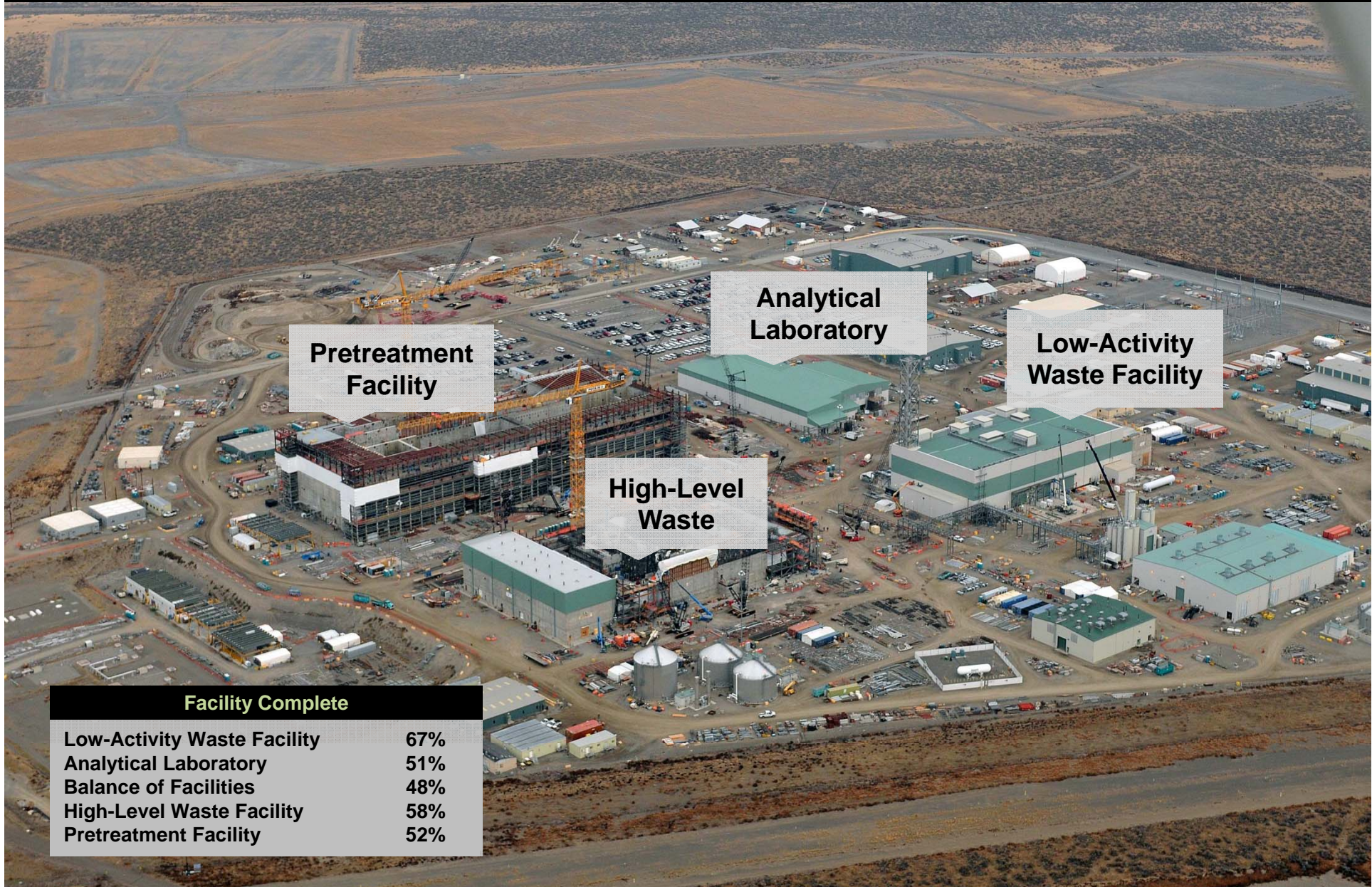


C-Farm Status

- C-107** Using the Mobile Arm Retrieval System - Bulk retrieval began in October 2011. Completion is expected in the Spring of 2012.
- C-112** Retrieval started in December 2011 using the Enhanced Reach Sluicer System.
- C-108** Hard heel removal underway using chemical dissolution. Completion of washes is expected in February 2012.
- C-111** Conducting a remote evaluation of the hard heel materials with a Raman Spectrometer. Operations expected to continue in late early 2012.
- C-109 and C-110** Engineering support and installation work planned for hard heel removal start in Spring of 2012. Completion planned for Fall of 2012.
- C-104** Hard Heel removal – caustic dissolution in 2012
- C-105** In late 2012, we will begin to prepare C-105 for installation of the vacuum version of the Mobile Arm Retrieval System. System currently under development.
- C-101 and C-102** Construction started on Enhanced Reach Sluicer Systems. Installation expected in FY12, with retrieval in FY13.



Waste Treatment Plant is 63% Complete



Pretreatment Facility

Analytical Laboratory

Low-Activity Waste Facility

High-Level Waste

Facility Complete	
Low-Activity Waste Facility	67%
Analytical Laboratory	51%
Balance of Facilities	48%
High-Level Waste Facility	58%
Pretreatment Facility	52%



Commitment to Safety

- Secretary's Nuclear Safety Culture expectations
 - December 5th Departmental Memorandum
 - Department Officials visit Hanford
- Safety Culture Implementation Plan (2011-1)
 - Strengthen safety culture oversight (Actions 1-2, 1-3 and 2-1 completed)
 - Revise contract and project documents
 - Develop action plans to address safety culture improvements
 - Safety culture attributes training
- HSS Report





2012 BUDGET

\$ in thousands

PBS	PBS Title	FY10 Appropriation	FY11 Appropriation	FY12 Request	FY12 Appropriation
ORP-0014	Radioactive Liquid Tank Waste Stabilization and Disposition	406,600	396,900	521,391	445,000
ORP-0060	Major Construction - Waste Treatment Plant	690,000	738,698	840,000	740,000
Total - ORP	Office Total	1,096,600	1,135,598	1,361,391	1,185,000

Challenges

Tank Farms
Supplemental treatment
Tank Closure

Waste Treatment Plant
Pretreatment facility



FY12 Planned Accomplishments

Tank Farms

- Base Operations
 - 222-S laboratory and 242-A evaporator operations
- Tank Retrievals
- Technology and Development
 - Activities to support tank waste mixing
- Conceptual Design
 - Critical Decision-1 documentation for Interim Hanford Storage Facility and Secondary Waste Treatment/Effluent
- Waste Feed Delivery
 - Design and procurement of AY and AZ farm feed delivery system
- Tank Closure & Waste Management Environmental Impact Statement



Refurbished hot cell window at
242-A Evaporator



FY12 Planned Accomplishments

Waste Treatment Plant

- **Low Activity Waste, Balance of Facilities, Analytical Lab**
 - Complete construction
 - Glass Former Storage facility
 - Steam Plant
 - Chiller Compressor Plant
 - Low-Activity Waste Facility bulk process pipe installation
 - Introduce power to WTP from main switch gear building
- **High-level Waste**
 - Complete architectural design
 - Complete forming rebar, and placement of concrete on third and fourth stories
 - Commissioning and startup training and procedural development
- **Pretreatment**
 - Integrated testing of Pretreatment process vessels
 - Quantitative risk analysis for Hydrogen and Ancillary Vessels
 - Commissioning and startup training and procedural development
- **WTP Pulse Jet Mixing Implementation Plan (2010-2)**



Acting Secretary Huizenga visits the Waste Treatment Plant



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