



OFFICE OF
RIVER PROTECTION
United States Department of Energy

Hanford Advisory Board

Agency Update

for the

Office of River Protection

Rob Hastings, Assistant Manager for Technical and Regulatory Support

Presented by: U.S. Department of Energy – Office of River Protection

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Our Team

Office of River Protection (ORP)

ORP is responsible for planning, integrating, and managing the River Protection Program executed by contractors performing work under ORP management. ORP has 225 employees*, both federal and contractor.

Washington River Protection Solutions (WRPS)

WRPS is the prime contractor responsible for safely managing and operating the Tank Farms. WRPS has 2,054 employees*.

Bechtel National, Inc. (BNI)

BNI is responsible for the engineering, construction, startup and commissioning of the Waste Treatment Plant and Immobilization Plant. BNI has 2,864 employees*.

Wastren Advantage, Inc. (WAI)

WAI is the prime contractor responsible for managing 222-S Laboratory.

*As of July 2015





Mission

To safeguard the nuclear waste stored in Hanford's 177 underground tanks, and to manage the waste safely and responsibly until it can be treated in the Waste Treatment and Immobilization Plant (WTP) for final disposition.

Vision

To be a high-performing, innovative organization that is safety-conscious and employee-focused, and committed to achieving our mission with environmental and fiscal responsibility.





The Tank Farms

A 200 Area Aerial Overview

200 West Area

200 East Area

Effluent Treatment
Facility Ponds

Waste Treatment and
Immobilization Plant

- Single-Shell Tank Farm
- Double-Shell Tank Farm





Selected Topics for the Hanford Advisory Board



Hanford Advisory Board members toured the
Waste Treatment and Immobilization Plant in
October 2015





222-S Laboratory Contractor Change



Wastren Advantage, Incorporated





Mark Lindholm Washington River Protection Solutions President and Project Manager



- Responsible for remediation of radioactive and hazardous waste tanks
- Replaced Dave Olson who retired September 30, 2015
- Served as WRPS Chief Operating Officer since January 2015
- Over 30 years experience in government nuclear facilities operations





242-A Evaporator Campaigns



Since returning to service last fall, the 242-A Evaporator has created nearly 1.9 million gallons of available waste storage space





Preparations Ongoing for Retrieval of Double-Shell Tank AY-102



Above: Removal of one of the cover blocks of Pit AY-02 to replace transfer pump



Right: Installation of 1,800 feet of double transfer line, including placement of shielding





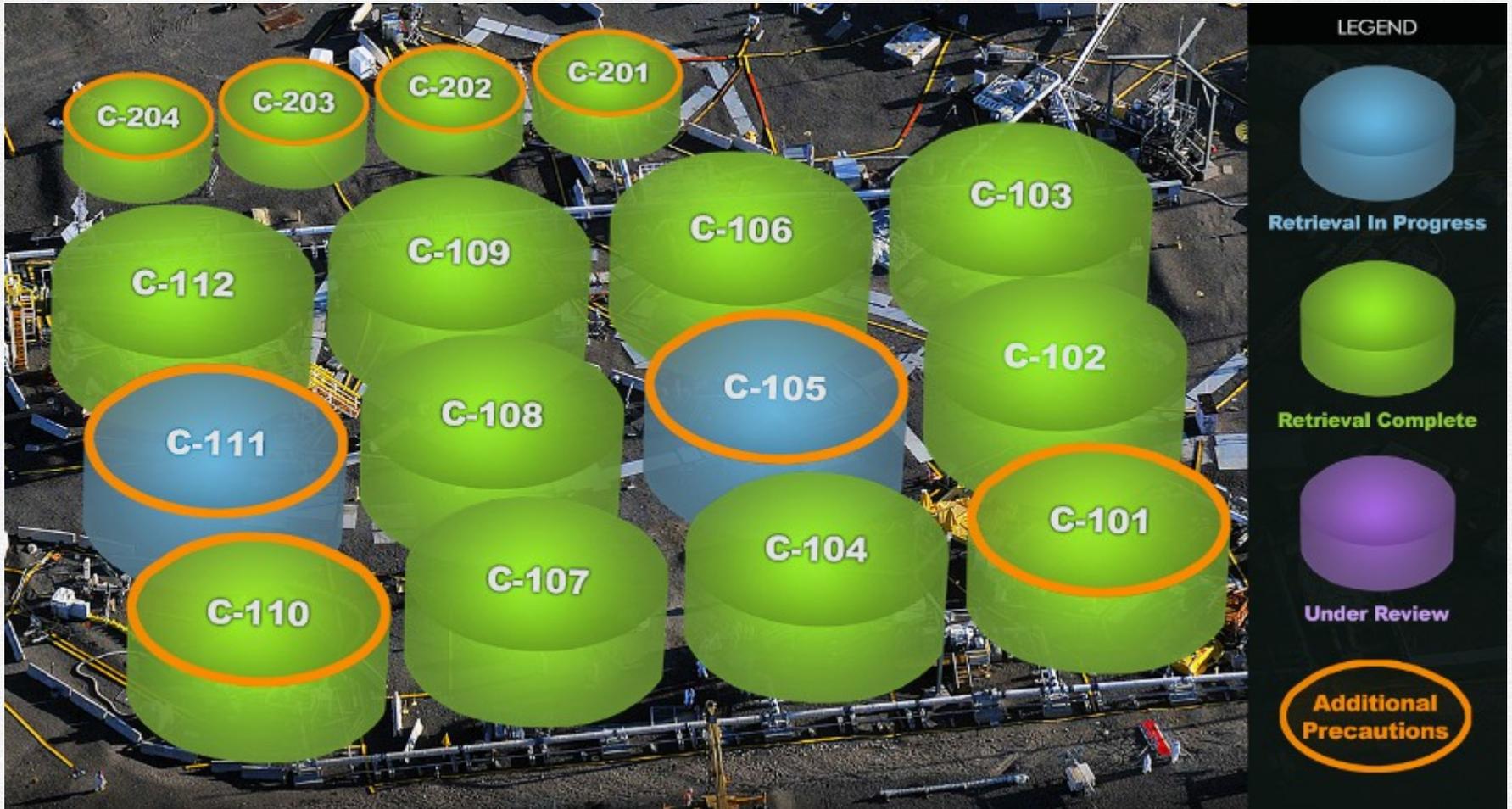
T-111 Portable Exhauster



A portable exhauster installed at T-111 is being used to evaporate water from the tank. This photo shows the exhauster, the white duct and where the ducting attaches to the tank.



C-Farm Retrieval Status



Retrievals continue at C-Farm with recent completion of tank C-102



Waste Treatment and Immobilization Plant Update

Pretreatment
Facility

Analytical
Laboratory

Low-Activity
Waste Facility

High-Level
Waste Facility

Balance of Facilities
(20 support buildings)





Low-Activity Waste Facility



Low Activity Waste melter
prior to final enclosure





Analytical Laboratory



Analytical Laboratory nearing completion





High Level Waste Facility



Progress continues towards resuming full construction





Balance of Facilities



The chiller compressor plant and glass former silos



Fire service water tanks will store and distribute water to other facilities in the event of a fire



Electrical equipment and air dryers are installed in the chiller compressor plant



Insulated piping to carry steam condensate, high-pressure steam, and chemical reagents between process and support facilities





Pretreatment Facility



Technical issue resolution continuing





Fiscal Year 2015 funding and 2016 Budget Overview

PBS	Project Baseline Summary (PBS) Title	FY 2015 Appropriation (\$ in Thousands)	FY 2016 President Budget Request (\$ in Thousands)
ORP-0014	Radioactive Liquid Tank Waste Stabilization and Disposition	\$ 522,000	\$ 649,000
ORP-0014	15-D-409, Low Activity Waste Pre-Treatment System	\$ 23,000	\$ 75,000
Subtotal	Radioactive Liquid Tank Waste Stabilization and Disposition	\$ 545,000	\$ 724,000
ORP-0060	WTP – Subprojects A-D	\$ 563,000	\$ 595,000
ORP-0060	WTP – Subproject E	\$ 104,000	\$ 95,000
Subtotal	Major construction – Waste Treatment and Immobilization Plant (WTP)	\$ 667,000	\$ 690,000
Total – ORP	Office of River Protection Funding Summary	\$1,212,000	\$1,414,000





*“Protecting our workers,
the public, and the environment”*

