



DEPARTMENT OF ENERGY

**Office of River Protection**

HANFORD SITE

June 7, 2012

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

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## ORP Activities

Safety Culture

Tank Retrievals

One-System

Waste Management  
and Tank Closure  
Environmental  
Impact Statement

Large Scale Integrated  
Testing



*Workers lower an Off-Riser  
Sampler into tank C-109*



*BEFORE –  
TBX-1 terminal box during initial demolition*



*AFTER – Wires neatly grouped just beneath the  
yet-to-be-installed new terminal box.*



## **C-Farm Status**

**C-112**

Bulk retrieval completed in April

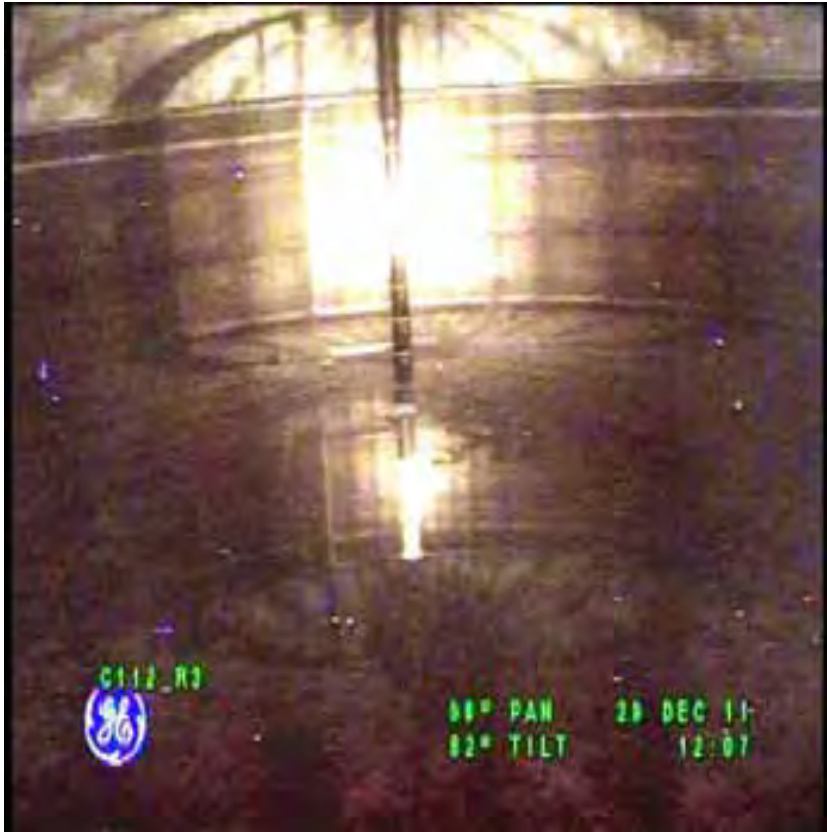
**C-108**

Retrieval efforts complete

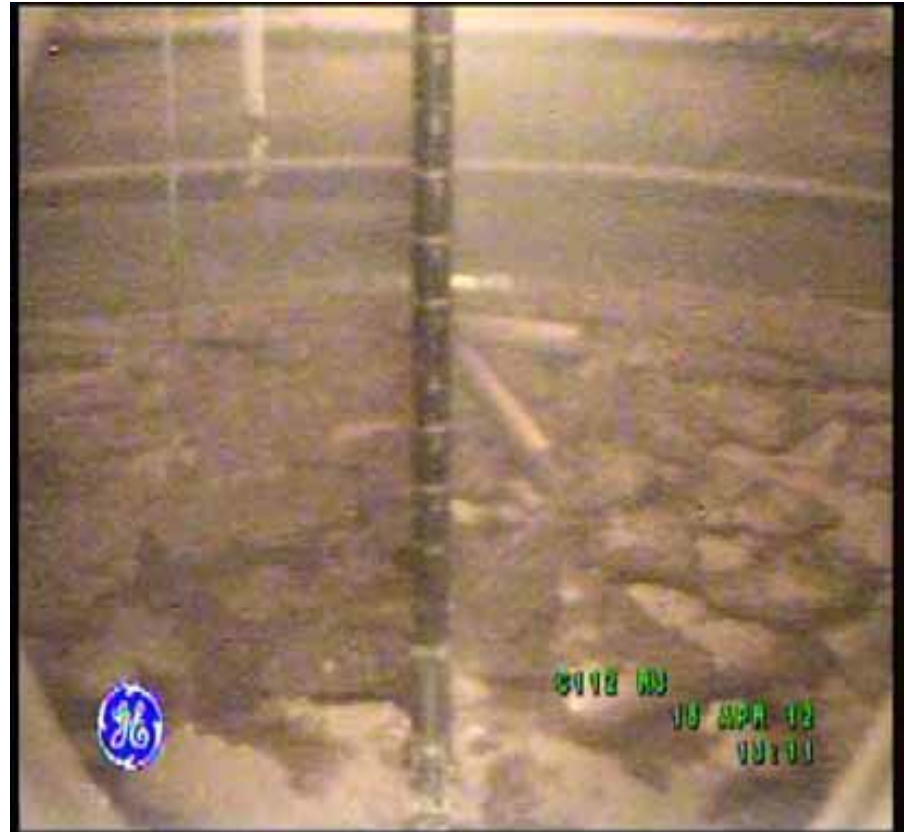
- C-107** Using the Mobile Arm Retrieval System – Bulk retrieval began in October 2011. Completion is expected in the [Summer of 2012](#).
- C-111** Conducting a remote evaluation of the hard heel materials with a Raman Spectrometer. Operations expected to resume mid 2012.
- C-109** Hard heel removal start in Spring of 2012. Completion planned for [Fall of 2012](#).
- C-110** Engineering support and installation of fold track to aid in Hard Heel Removal in 2013.
- C-104** Hard Heel removal – caustic dissolution begins in June 2012
- C-105** Preparations are underway or installation of the vacuum version of the Mobile Arm Retrieval System. System currently under development.
- C-101 and C-102** Infrastructure continues with installation of Enhanced Reach Sluicer Systems. Installation expected in Summer of 2012 with retrieval in early FY13.



## C-112 Bulk Retrieval Complete



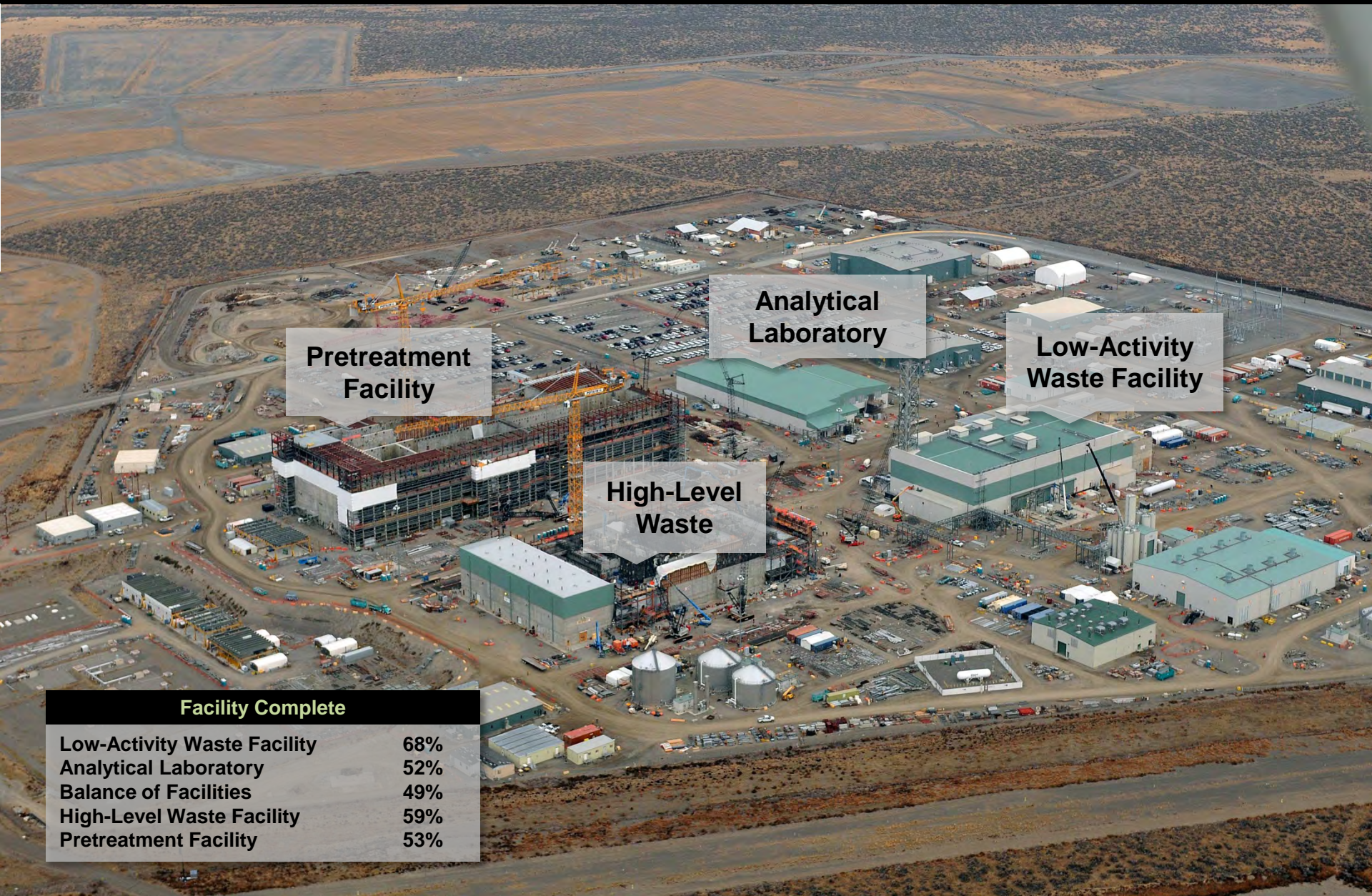
*C-112 before sluicing operations began  
(December 2011)*



*C-112 on April 18 after operations were completed*



# Waste Treatment Plant is 64% Complete



Pretreatment Facility

Analytical Laboratory

Low-Activity Waste Facility

High-Level Waste

Facility Complete	
Low-Activity Waste Facility	68%
Analytical Laboratory	52%
Balance of Facilities	49%
High-Level Waste Facility	59%
Pretreatment Facility	53%



## **WTP Recent Accomplishments**

### **Pretreatment Facility**

- Action plan completed for resolution of corrosion/erosion issues

### **Low Activity Waste**

- Three six-ton exhausters installed
- Installation of liquid feed process vessel began
- Preparing melter for refractor installation

### **High Level Waste**

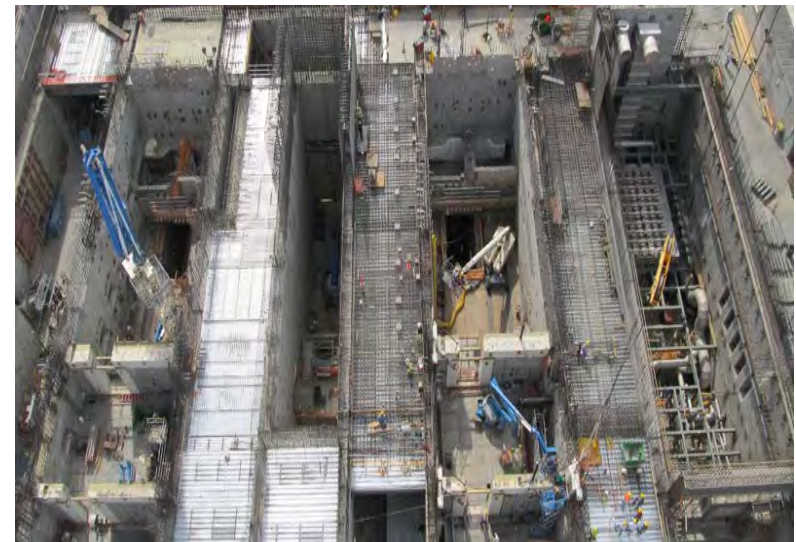
- 102 ton-shield door received
- Melter #2 wall placement completed
- Plant wash vessel received

### **Balance of Facilities**

- Began erecting structural steel for Anhydrous Ammonia Facility



*Glass former silos*

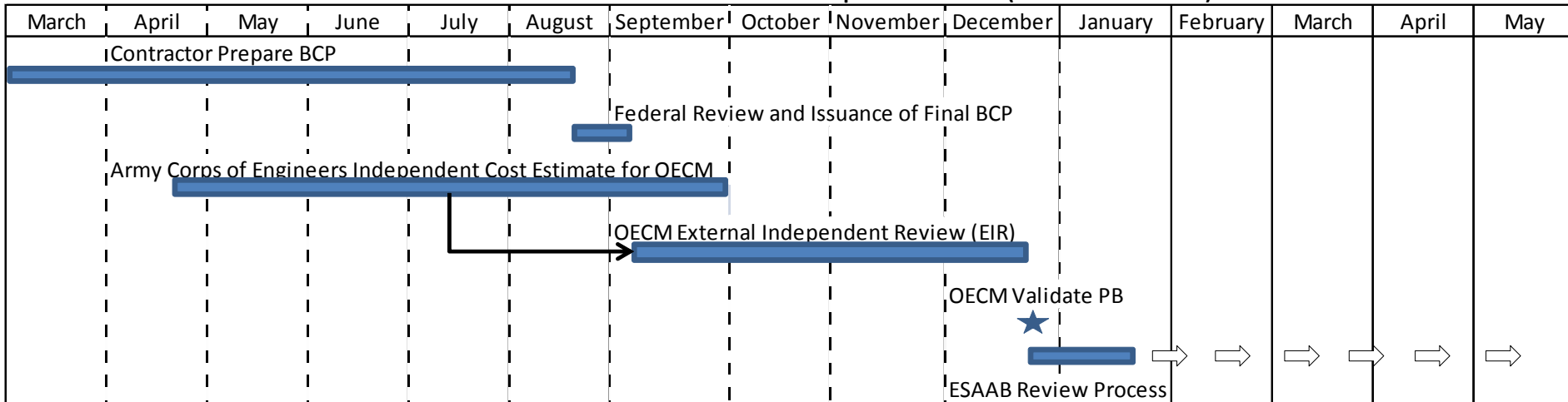


*High-Level Waste Facility melter bay*

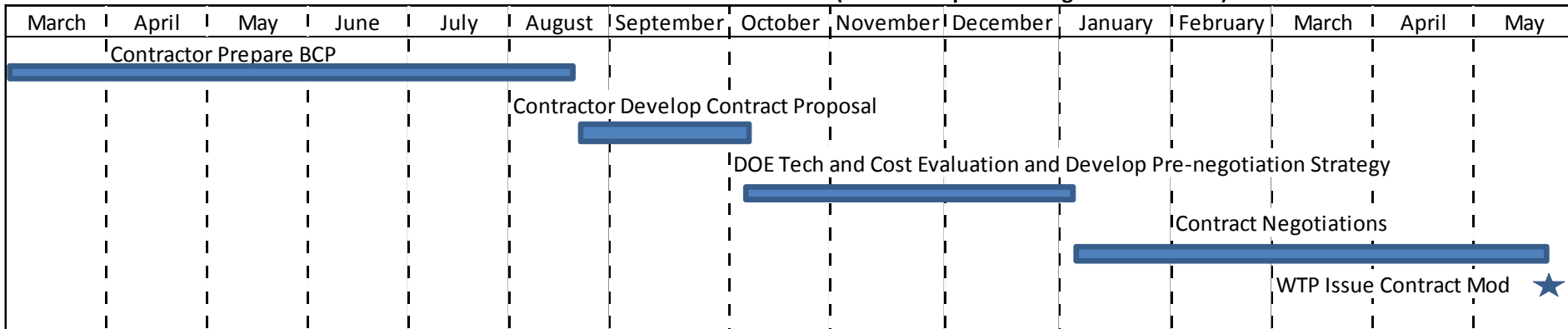


# WTP Rebaseline

**Best Case Notional Performance Baseline Development Schedule (DOE-413.3B Process)**



**Best Case Notional Contract Modification Process (Federal Acquisition Regulation Process)**





## ORP Safety

- DNFSB receives ORP Safety Culture Improvement Plan
  - Action 1-8 of DNFSB Implementation Plan for 2011-1
  - Effectively managing change
    - Management focus
    - Safety Culture Integrated Project Team
- Safety Conscious Work Environment
  - Training
  - Site-wide survey
- Employee Concerns Program Assist Visit
- Encouraging a vigorous questioning attitude
  - Safety Culture website
  - Zero threshold issue resolution system

### Safety Statistics

BNI recently surpassed 11 million hours without a lost time work injury

WRPS 3 million hours without a lost time work injury – Company-wide Safety Culture Survey completed





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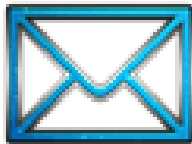
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