



# *Sodium-Bearing Waste Treatment Project Update*

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**Richard Craun/Shawn Hill**

**Department of Energy-Idaho**



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## *Sodium Bearing Waste Treatment Project Mission*

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- New Facility to Treat 900,000 Gallons of Radioactive Liquid Waste currently stored in underground tanks at the INTEC Tank Farm
- Idaho Settlement Agreement Requires Treatment of Tank Waste by December 2012
- Consent Order requires the remaining INTEC Tank Farm tanks to be emptied by December 2012
  - Tank Farm tanks secondary containments non-compliant with RCRA



## *Sodium Bearing Waste Treatment Project Description*

- Steam Reforming technology converts acidic radioactive liquid waste to solid carbonate particles
- New facility - includes Process Building with reinforced concrete process cells inside a structural steel building, along with a Product Storage Building
- Produces ~ 650 – 700 remote-handled waste canisters
- Product Storage Building provides interim storage for entire product volume
- Project at times referred to as the Integrated Waste Treatment Unit (IWTU)



# *Sodium Bearing Waste Treatment Project Progress*

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- Construction efforts almost complete
  - Construction complete on most individual systems, with those systems now turned over from construction group to the test organization
  - Completion of all construction turnovers was not achieved by the end of December 2010 as previously planned
    - 33 of 33 major systems necessary for integrated plant testing have been turned over
    - 29 of 40 additional balance of plant systems have been turned over
    - Previous plans for a DOE Deputy Secretary and Stakeholder visit/celebration have been postponed until the end of May
  - Completion of construction and turnover of remaining systems will occur over the next few weeks
- System test program now underway on completed systems
  - Testing phase to run through April/May 2011

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## *Progress Photos*

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Unloading of Process Cell Shield Door



Off-Gas System HEPA Filter Bank



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## *Progress Photos (continued)*

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Off-Gas System Continuous Emissions  
Monitor Panel



Product Receiver/Cooler Cell Equipment



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## *Progress Photos (continued)*

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Transfer Bell Crane and Maintenance Crane



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## *Progress Photos (continued)*



Completed Product Storage Vaults



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## *Progress Photos (continued)*



Top of Process Gas Filter in 4-Pack Cell



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## *Potential Shift in Startup Date*

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- Construction delays resulted in unsupportable systems test schedule compression.
- A schedule analysis was completed which showed a need to shift the project completion forecast date from August 2011 to December 2011 to re-establish appropriate confidence levels. A contract modification was executed in December 2010 to cap project costs to the government at a Total Project Cost of \$571M.
- The contract modification also incentivizes CWI to complete by November 2011 or earlier, with significant weekly fee penalties for later completion.
- A proposed change in the project baseline was approved by DOE.

### Impacts:

- Forecasted Readiness Review late finish dates
  - Contractor Management Self-Assessment (MSA) – July 2011
  - Contractor Operational Readiness Review – October 2011
  - Federal Operational Readiness Review – November 2011
- 10-month Waste Treatment Campaign – still allows time to complete processing under current contract by December 2012 Settlement Agreement milestone



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## *Summary Points*

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- Construction activities nearing completion, with majority of systems turned over for testing, and system testing underway
- Testing Program and Readiness Review Activities will occur in 2011
- Construction delays have prompted a forecasted shift in the project completion date to November/December 2011
- Adequate time remains to complete the waste treatment campaign by the December 2012 Settlement Agreement milestone



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