American Recovery and Reinvestment Act Implementation at the Hanford Tank Farms

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Tank Farms Contract

• $7.1 billion, 10-year contract

• Our mission:
  • Reduce the risk posed by the 53 million gallons of radioactive and chemical waste stored in 177 underground tanks
  • Safely manage the waste and prepare it for processing
  • Commission and start up the Waste Treatment Plant
The Tanks

- WRPS manages 177 underground waste storage tanks
  - 149 single-shell tanks, some dating back to 1943
  - 28 newer, safer double-shell tanks built between 1968-1986
- Tanks range in capacity from 55,000 to more than a million gallons
- 67 of the 149 older single-shell tanks are suspected “leakers”
Recovery Work at the Tank Farms

Recovery Act funding:
- $326 million allocated through September 2011
- Over $200 million spent through December 2010

Key objectives include:
- Job/career creation
- Tank farm infrastructure upgrades
- Facility life extension
- Preparing to feed the WTP
- Creating a safer, more efficient work environment
Major ARRA Projects

- **RA-1 Tank Farm Infrastructure Upgrades**
  - AP/SY Farm Ventilation
  - SY Farm Electrical Upgrades
  - TY Farm Interim Barrier Installation
  - AZ Farm Control System Upgrade

- **RA-2 Other Infrastructure Upgrades**
  - Wiped Film Evaporator
  - Mobile Arm Retrieval System Vacuum System
  - Core Sampling System

- **RA-3 Facilities Upgrades**
  - 242-A Evaporator & 222S Lab Upgrades/Life Extension
  - Secondary Waste Form Testing

- **RA-4 Waste Feed Infrastructure Upgrades**
  - DST Control Systems Update
  - AZ Condensate Line Upgrade
  - Tank Waste Mixing Demonstrations

- **RA-5 Waste Feed Transfer Lines Upgrades**
  - 8 lines – 737 linear feet

$326 million
Lessons Learned

• Established a Program Office to oversee the ARRA project
• Strong teaming with DOE – ORP Federal Project Director and staff
• Established an Integrated Project Team with representatives from all major functions
• Proposal completed to Certified Cost Pricing guidance
• Fully integrated the ARRA work into the WRPS Baseline
• Develop and maintain a requirements matrix

• Opportunities for improvement:
  • Define performance metrics sooner in process
  • Define the closure requirements earlier
  • Establish reporting guidance earlier
  • Retain proposal team participants as part of RA Program Office