



U.S. DEPARTMENT OF  
**ENERGY**



# *20 Years of Progress in Processing Nuclear Waste*

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**Weapons Complex Monitor**

**Waste Management & Cleanup Decisionmakers' Forum**  
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**EM Environmental Management**

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# 2009 In Review

## Making Progress, Building Confidence

- WTP – 50% Complete
  - Project Management Focus
  - New Management Team
  - Technical Issues
  - Engineering
  - Quality Assurance
  - Construction
- Tank Farms
  - 1<sup>st</sup> year Tank Operations Contract
  - ISMS/EVMS/Rebaseline
  - Retrievals & Technologies
  - Evaporator Campaigns
  - SST Integrity Program
  - Interim Barrier/Vadose Zone
- Consent Decree/TPA
- TC & WM Draft EIS
- ORP



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# *Waste Treatment Plant Accomplishments*

## *50% complete*

Aerial view of WTP August 2009

Overall design = 76% complete

Overall construction = 46% complete

Professional Staff : 2,000

Craft Workers: 850

Subcontractors: 250

Total Staff: 3,100



# Waste Treatment Plant Accomplishments

- Approved Contract Mod
- Completed testing at PEP
- Down to the last technical issue
- Achieved VPP Merit status



*Left: Large mixing vessel installed on the north end of LAW Facility.*



*Right: Door liner installed at the HLW Facility.*



# Waste Treatment Plant: Building for the Future

- Accelerating engineering
- Reducing schedule risk
- Integrating with TOC
- QA focus



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# Tank Farms Accomplishments

- Retrievals & Technologies
- Evaporator Campaigns
- SST Integrity Program
- Interim Barrier/Vadose Zone



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# Tank Farms: Building for the Future

- 1<sup>st</sup> year Tank Operations Contract - Met 95% PBIs
- ISMS/EVMS/Rebaseline
- TF/WTP integration



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# Tank Farms: Building for the Future

## American Recovery and Reinvestment Act

PROJECT	WORKSCOPE	\$
ORP-0014.R1	Tank Farm Infrastructure Upgrades to Support Waste Feed to the WTP	\$326M



- Tank Farm Infrastructure
  - Ventilation at AP/SY Farms
  - Waste Transfer Infrastructure
  - Level Rise Modifications
  - Control Systems
  - AP Farm Valve Pits
- Other Infrastructure
  - Wiped Film Evaporator
  - Core Sampling Truck



- Facility Upgrades
  - 242-A Evaporator Upgrades
  - 222-S Laboratory Upgrades
  - ETF Upgrades
- Waste Feed Infrastructure
  - DST Control Systems (AN, AP, AW, AY/AZ, SY Farms)
  - AW/AN Exhauster D&D
  - Tank Waste Mixing Demonstration
  - Transfer and Condensate line upgrades



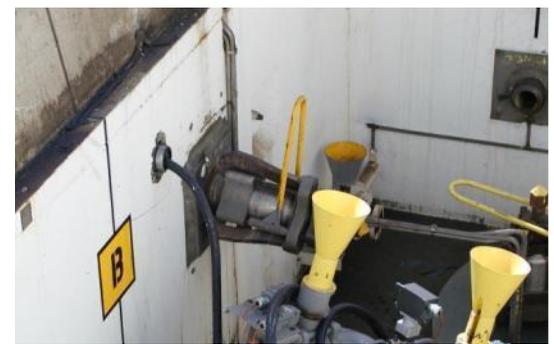
# Major ARRA Project Accomplishments



**Waste feed infrastructure**



**structure**



**Waste feed infrastructure**



**Evaporator valve upgrades**



**Exhauster D&D**



# Office of River Protection Management Team

**Increased** Fed oversight staff 148  
**Created** new Engineering & Nuclear Safety organization  
**Created** AM and Deputy AM positions for ENS and WTP  
**Major** hiring focus on project management and engineering staff; Federal Project Directors



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# Making Progress Building Confidence

- Consent Decree/TPA
- TC & WM Draft EIS
- Early turnover of WTP facilities
- Commissioning LBL by 2015
- Tank waste strategy: Complex synergy



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