



Hanford Site Integration Project FISCAL YEAR 2001 Accomplishments

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In Support of River Corridor Cleanup

Outstanding Safety Performance

- ✓ Completed the largest segment of In Situ Redox Manipulation Barrier (28 wells)
- ✓ Completed design for upgrades to Pump & Treat systems (KR-4 and HR-3)
- ✓ Completed groundwater/river interface studies for 100-D, K, and H areas
- ✓ Completed biological fate and transport experiments for technetium-99 fish uptake through water pathway

In Support of Central Plateau Decisions

Outstanding Safety Performance

- ✓ Completed field characterization of high-risk liquid-waste sites in 200 Area (sites that received tank-farm wastes)
- ✓ Completed in-depth analysis of tank leaks at S-SX Tank Farm, resolving critical technical issues
- ✓ Completed field investigation through largest known leaks in B-BX-BY Tanks Farms
- ✓ Completed installation of vadose zone monitoring sensors at B-110 and S-SX Tank Farm
- ✓ Completed Leak Detection Mitigation and Monitoring field tests for ORP
- ✓ Completed tank farm run-on controls and water line capping and testing in 200 West Area

In Support of Central Plateau Decisions

(Continued)

Outstanding Safety Performance

- ✓ Deepened wells for carbon tetrachloride characterization and vapor extraction
- ✓ Completed characterization borehole at ILAW site
- ✓ Completed RCRA well installations for Calendar Year 2000
- ✓ Initiated baseline borehole geophysical logging program
- ✓ Completed high-salt injections and data analyses at Vadose Zone Transport Field Study site
- ✓ Completed site wide inventory (past, current, and future) for principal radiological and hazardous chemicals
- ✓ Completed System Assessment Capability (SAC) initial assessment
- ✓ Launched the Virtual Library (facilitating internet access to Hanford data)

In Support of Hanford Site Integration

Outstanding Safety Performance

- ✓ Completed inverse calibration of groundwater model for an alternative conceptual model
- ✓ Received National Academy of Science report and completed briefings to DOE-HQ and Hanford Site management
- ✓ Established New Integration Forums
 - Modeling Coordination Group
 - Central Plateau Risk Assessment Workshops
 - ORP/RL integrated planning for assessments
- ✓ Produced data catalogs for geological data, release models, and vadose zone hydraulic properties