

Fiscal Year 2011 Briefing



U.S. Department of Energy

Richland Operations Office

May 25, 2011

Richland Operations Office – Fiscal Year 2011 Allocation of EM Cleanup Funding \$ in thousands

PBS	PBS Title	FY09 Appropriation	FY10 Appropriation	FY11 Appropriation
RL-0011	NM Stabilization and Disposition - PFP	113,483	118,087	69,102
RL-0012	SNF Stabilization and Disposition	124,671	95,325	94,016
RL-0013	Solid Waste Stabilization and Disposition - 200 Area	192,345	132,757	128,034
RL-0030	Soil and Water Remediation - Groundwater/Vadose Zone	175,237	223,766	164,629
RL-0040	Nuclear Facility D&D - Remainder of Hanford	103,283	70,250	139,641
RL-0041	Nuclear Facility D&D - River Corridor Closure Project	238,337	327,955	351,028
RL-0100	Richland Community and Regulatory Support	19,620	21,940	19,540
Subtotal	Defense Appropriation	966,976	990,080	965,990
RL-0020	Safeguards and Security	79,765	82,771	69,234
RL-0042	Nuclear Facility D&D - Fast Flux Test Facility Project	10,755	7,652	3,652
Total - RL	Office Total	1,057,496	1,080,503	1,038,876



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Fiscal Year 2011 Planned Accomplishments

100 K Reactor

- Operate and maintain KW Basin, Cold Vacuum Drying Facility, and associated structures in a safe and compliant manner
- Continue Sludge Treatment Project (STP) Phase I & Phase 2 designs and equipment/system testing at the Maintenance and Storage Facility
- Complete KW Basin floor sludge vacuuming
- Complete phase 1 debris removal from the KW Basin
- Retrieve Settler Tube (ST) sludge to Engineered Container (EC) 230
- Complete EC and ST sludge sampling and characterization
- Complete STP Phase 2 alternative analysis for treatment and packaging
- Complete Knockout Pot (KOP) pretreatment and processing designs
- Perform KOP pretreatment
- Process and ship last of the KW Basin and WCH spent nuclear fuel scrap to be stored in the Canister Storage Building

K Basin Closure Project (RL-0012)
\$94,016 K



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Fiscal Year 2011 Planned Accomplishments River Corridor

- Maintain safety systems and operations in the 100 Area, 200 Area (including Environmental Restoration Disposal Facility), 300 Area, 400 Area, and 600 Areas
- Complete above grade demolition of 327 Building (Post-Irradiation Test Laboratory) in the 300 Area
- Continue remediation of 100-D chromium contaminated waste sites
- Start remediation of 100-C-7 burial ground
- Complete remediation of 100-H burial grounds
- Continue remediation and D4 in the 100 K Area
- Continue Interim Safe Storage of N Reactor
- Operate Environmental Restoration Disposal Facility to support field remediation and demolition activities
- Continue risk assessment activities in support of final end state and River Corridor closure

***Nuclear Facility D&D – River Corridor
Closure Project (RL-0041) \$351,028 K***



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Fiscal Year 2011 Planned Accomplishments Plutonium Finishing Plant

- Maintain safe and compliant Plutonium Finishing Plant complex facilities
- Continue transition of Building 236-Z and canyon
- Continue deactivation, decontamination & removal of gloveboxes & process & support systems from PRF. (ongoing)
 - Complete Initial Clean-up PRF Canyon Floor (completed 1/07/11)
 - Initiate Pencil Tank removal from Plutonium Reclamation Facility (completed 1/11/11)
 - Complete Maintenance/Canning/Charging Glove box Removal (completed 3/31/11)
 - Proceed with size reduction of canyon pencil tanks/racks (ongoing, 5 of 196 complete).
- Complete demolition of the five ancillary security buildings (complete)

***NM Stabilization/Disposition –
PFP (RL-0011): \$69,102 K***



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Fiscal Year 2011 Planned Accomplishments Waste Treatment / Disposal

- Provide Base Operations
 - Solid Waste Base Operations (PM, MLLW, CWC, IDF, LLBG)
 - Storage of cesium and strontium capsules at the Waste Encapsulation and Storage Facility
 - Canister Storage Building and Interim Fuel Storage Area
 - Waste Receiving and Processing Facility
 - 200 Effluent Treatment Facility
 - Low-Level Burial Grounds
- C-26-07F, Submit Tritium Technology Developments to Ecology and EPA
- M-091-03D-02, Submit Performance Management Plan Revision for Disposition of No Path Forward Waste

***Solid Waste Stabilization and
Disposition (RL-0013): \$128,034 K***



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Fiscal Year 2011 Planned Accomplishments

Soil & Groundwater Project

- Operate and maintain groundwater remediation systems
- Continue groundwater monitoring
- Achieve progress on field activities and completing the CERCLA Process (Remedial Investigation / Feasibility Study and Proposed Plan) to obtain final Record of Decision for the 100 Area groundwater Operable Units
- Continue integration of groundwater and vadose zone field activities including operating and maintaining environmental databases
- Complete the following TPA Milestones:
 - M-015-110C Sub. Uranium Treatment Tech Field Test Plan for 200-DV-1-OU, 12/31/10 (Completed)
 - M-015-82A Submit Treatability Test Plan As Amendment of 200-BP-5 WP, 12/31/10 (Completed)
 - M-016-111B Expand P&T Sys at 100-HR-3 OU to 500 gmp Capacity, 12/31/10 (Completed)
 - M-024-61 DOE Shall Complete Construction of 90 Wells 12/31/10 (Completed)
 - M-037-01 Submit Revised Closure Plan for Hexone Storage & Treatment Facility, 12/31/10 (Completed)
 - M-015-60 Submit RD/RA Work Plan if 100-NR-1/2 ROD Amend is issued, 3/29/11 (Completed)
 - M-024-58D Initiate Discussions of Well Commitments, 6/1/11
 - M-015-90 Submit Revised RCRA RI/CMS & RI/FS Work Plan for 200-IS-I OU, 6/30/11
 - M-015-82B Initiate 200-BP-5 Aquifer Tests Within 6 Months of TTP Approval, 8/1/11
 - M-024-62-T01 Conclude Discussions of Well Commitments, 8/1/11
 - M-015-66-T01 Submit CERCLA RI/FS Report & PP 100-KR-1/2/4 OUs For GW & Soil, 9/21/11

**Groundwater Protection (RL-0030):
\$169,629 K**



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Fiscal Year 2011 Planned Accomplishments Central Plateau Remediation and Infrastructure (RL-0040)

- Maintain Surveillance and Maintenance for Central Plateau waste sites and facilities awaiting final disposition.
- Replace, renovate, and restructure essential infrastructure to support Hanford cleanup.
- Support infrastructure activities such as steam, occupational medicine and service contracts
- Provide essential infrastructure and service to Hanford Cleanup

***Nuclear Facility D&D – Remainder
of Hanford (RL-0040): \$139,641 K***



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Fiscal Year 2011 Planned Accomplishments

Fast Flux Test Facility

- Maintain long-term safe and compliant Surveillance and Maintenance of FFTF and support facilities

***Nuclear Facility D&D – FFTF (RL-0042):
\$3,652 K***



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Fiscal Year 2011 Planned Accomplishments Safeguards and Security

- Maintain protection of special nuclear materials
- Maintain site-wide security

***Safeguards and Security (RL-0020):
\$69,234 K***



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