

Richland Analytical Building Blocks

FY 2012 - Draft

(\$ in 000's)

PBS	ABB	FY12	FY12 Cumulative	FY12 Description
RL-0040	S&M and Min-Safe for Facilities and Waste Sites	\$13,555	\$13,555	Provide core project management staff for Surveillance and Maintenance. This includes: ES&H oversight, quality management, safety and job hazards analysis, and technical support.
RL-0011	PFP Maintain Safe & Secure PFP	\$19,651	\$33,206	Provide minimum safe and essential services for over forty radiological and nuclear Plutonium Finishing Plat facilities and systems, and surveillance of residual radioactive and chemical contamination to ensure safe and compliant condition. Activities include maintaining Plutonium Finishing Plant nuclear safety, maintain, manage and administer radiological control, fire protection, occupational safety and health, and the training programs.
RL-0042	FFTF D&D	\$1,896	\$35,102	Funding supports long-term safe and compliant surveillance and maintenance for Fast Flux Test Facility and support facilities. Annual support includes periodic surveillances and walk-through, maintaining sodium systems under an inert atmosphere, and maintenance of the 400 Area water system. This support will be required until the residual and bulk sodium is dispositioned and facility deactivation and decommissioning is resumed.
RL-0020	Safeguards and Security	\$74,066	\$109,168	Funding supports site's ability to maintain protection of special nuclear materials and maintain site wide security. Specific security program impacts include Hanford site access controls, emergency response, and physical security at K Basins and the Canister Storage Building. Other security programs that would be impacted include, but are not limited to: Material Control and Accountability, Information Security, Personnel Security, and Protective Force.
RL-0041	River Corridor Cleanup	\$50,290	\$159,458	Funding provides surveillance and maintenance of nuclear and support facilities and continues operations of specific key utilities (water, sewer electrical).
RL-0012	KBC Basin/Facility Operations & Maintenance	\$28,105	\$187,563	Funding supports site's ability to operate and maintain K West Basin and associated structures in a safe and compliant manner. Funding also supports minimum required surveillance and maintenance activities.
RL-0040	RL Directed Activities	\$45,257	\$232,820	Funding supports: direct contracts for site wide activities (e.g. steam, occupational health medicine); RL integrated baseline development and certification. Funds critical site heating systems, physicals to support required job hazard analysis, and essential planning and performance assessment activities to ensure efficient deployment of resources and implementation of new contracts at the Hanford Site.
RL-0012	Site Wide Services	\$34,532	\$267,352	Site-wide services were planned and proportionately spread across all PBSs for the FY 2012 Budget Submittal. These services are for day-to-day operations of general utilities, fire department and analytical services. These are minimum services that must be made available in order for workers to safely be on site.
RL-0042	Site Wide Services	\$807	\$268,159	Site-wide services were planned and proportionately spread across all PBSs for the FY 2012 Budget Submittal. These services are for day-to-day operations of general utilities, fire department and analytical services. These are minimum services that must be made available in order for workers to safely be on site.

Richland Analytical Building Blocks  
FY 2012 - Draft  
(\$ in 000's)

PBS	ABB	FY12	FY12 Cumulative	FY12 Description
RL-0011	Site Wide Services	\$23,215	\$291,374	Site-wide services were planned and proportionately spread across all PBSs for the FY 2012 Budget Submittal. These services are for day-to-day operations of general utilities, fire department and analytical services. These are minimum services that must be made available in order for workers to safely be on site.
RL-0030	Site Wide Services	\$60,308	\$351,682	Site-wide services were planned and proportionately spread across all PBSs for the FY 2012 Budget Submittal. These services are for day-to-day operations of general utilities, fire department and analytical services. These are minimum services that must be made available in order for workers to safely be on site.
RL-0040	Infrastructure	\$20,176	\$371,858	Funding provides necessary site infrastructure upgrades, replacements and repairs to support cleanup. In FY12, these include: replacement of crane and rigging; general plant facility HVAC replacements; fire truck and mobile response unit replacement; HLAN network upgrades; roadway repair and sealing; water line replacement; and installation of potable water lines.
RL-0040	Site Wide Services	\$17,414	\$389,272	Site-wide services were planned and proportionately spread across all PBSs for the FY 2012 Budget Submittal. These services are for day-to-day operations of general utilities, fire department and analytical services. These are minimum services that must be made available in order for workers to safely be on site.
RL-0041	Site Wide Services	\$10,450	\$399,722	Site-wide services were planned and proportionately spread across all PBSs for the FY 2012 Budget Submittal. These services are for day-to-day operations of general utilities, fire department and analytical services. These are minimum services that must be made available in order for workers to safely be on site.
RL-0013C	Site Wide Services	\$50,257	\$449,979	Site-wide services were planned and proportionately spread across all PBSs for the FY 2012 Budget Submittal. These services are for day-to-day operations of general utilities, fire department and analytical services. These are minimum services that must be made available in order for workers to safely be on site.
RL-0040	HAMMER	\$7,533	\$457,512	Funding supports the Hazardous Material Management and Emergency Response (HAMMER) Training and Education Center. HAMMER provides training for Hanford nuclear/hazardous materials cleanup workers, emergency responders, energy assurance workers, and homeland security personnel. This base funding pays for site specific capability to provide Hanford workers with training necessary to maintain required certifications to continue cleanup.
RL-0011	PFP Program Mgmt & Support	\$5,592	\$463,104	Funding supports program management and support activities necessary to support minimum safe operations and essential services. This element includes the administration and direction of Plutonium Finishing Plant support, baseline and project control, conduct of operations, facility property administration, maintenance of policies and procedures, occurrence reporting, quality assurance support; management assessment and corrective action development; regulatory compliance monitoring; performance assessment support; and records management.

Richland Analytical Building Blocks

FY 2012 - Draft

(\$ in 000's)

PBS	ABB	FY12	FY12 Cumulative	FY12 Description
RL-0100	Regulatory Federal and State Grant Support	\$5,702	\$468,806	This funding supports: offsite agency emergency preparedness programs enabling them to respond to an emergency on the Hanford site; State of Oregon input on Hanford activities; independent monitoring during events from the WA State Department of Health; and the WA State Dept. of Ecology CERCLA grant.
RL-0100	Regulatory Support Essential Services	\$14,636	\$483,442	Funding supports: the WA State Dept. of Ecology RCRA Mixed Waste Fee; WA State Department of Health's air emissions monitoring invoice; and the Payment in Lieu of Taxes (PILT) for Grant, Benton, and Franklin Counties. Additionally, this funding supports the Hanford Advisory Board for public involvement related to the cleanup mission at the Hanford site.
RL-0013C	Canister Storage Building	\$6,483	\$489,925	Funding supports the base operations of the Canister Storage Building (CSB) and Interim Fuel Storage Area (ISA) to safely store Hanford Site SNF. Failure to fund this activity will impact the ability to maintain safe storage of Special Nuclear Fuel and to receive fuels generated from other site cleanup activities including: K Area; remediation of the River Corridor waste sites; and Central Plateau remediation.
RL-0013C	Capsule Storage & Disposition	\$8,222	\$498,147	Funding supports interim storage of cesium and strontium capsules at the Waste Encapsulation and Storage Facility (WESF) which is RCRA permitted facility. Failure to fund this element would result in the inability to ensure safe and compliant storage of cesium and strontium capsules until final disposition
RL-0013C	Program Mgmt	\$22,016	\$520,163	Provides minimum project management and support necessary to ensure overall Project compliance to applicable requirements. Provides waste acceptance services, interface with regulators, and overall project management, risk management, planning, and project performance reporting. Also provides support to finalize the TC & WM Environmental Impact Statement  Provides administration and coordination of the project-specific programs such as Transportation & Packaging, VPP, ISMS, Emergency Preparedness, Quality Assurance, Corrective Action Management, Safety Basis development and implementation, and Criticality and Nuclear Safety programs.
RL-0013C	Liquid Effluent Facility	\$24,551	\$544,714	Funding supports the operation and necessary upgrades at the RCRA/CERCLA permitted 200 Area Liquid Effluent Treatment Facility (LETF) and Liquid Effluent Retention Facility (LERF) in support of 200 Area operations. These facilities support ongoing site cleanup activities including: groundwater remediation; radioactive waste tank volume reduction; treatment of future Waste Treatment Plant waste streams, including ILAW; and disposal facility leachate (ERDF and mixed waste trenches) as required by permit requirements. The treated effluents are discharged under a state approved land disposal permit.
RL-0013C	T-Plant Base Operations	\$6,753	\$551,467	Funding provides the operations necessary for maintaining the T Plant Complex in a safe and compliant manner in accordance with DOE requirements, safety authorization basis documents, State and Federal regulations, and environmental permit conditions.

Richland Analytical Building Blocks

FY 2012 - Draft

(\$ in 000's)

PBS	ABB	FY12	FY12 Cumulative	FY12 Description
RL-0013C	Integrated Disposal Facility	\$256	\$551,723	Maintains the minimum safe operation of the IDF in a safe and permit compliant manner prior to the facility being placed in the operational mode.
RL-0013C	WRAP Base Operations	\$7,168	\$558,891	Funding provides the min. safe operations necessary for maintaining the Waste Receiving and Processing Facility (WRAP) in a safe, compliant, and cost-effective manner in accordance with DOE requirements, safety authorization basis documents, State and Federal regulations, and environmental permit conditions.
RL-0013C	Central Waste Complex	\$5,062	\$563,953	Funding provides min. safe operations necessary to store low-level waste, mixed low-level waste, and transuranic waste at the Central Waste Complex (CWC) in a safe and compliant manner in accordance with DOE requirements, safety authorization basis documents, State and Federal regulations, environmental permit conditions and acceptance criteria. CWC consists of multiple storage structures for waste awaiting treatment and/or disposal. The waste is received from both onsite and offsite generators.
RL-0013C	Solid Waste Base Operations	\$2,637	\$566,590	Funding provides the base operations for minimum solid waste activities to maintain a viable waste management program to support all Hanford projects and operations. Failure to fund this activity impacts all Hanford projects that generate low-level waste and mixed low-level waste; in addition, waste currently in storage would not be maintained in accordance with state permit requirements.
RL-0013C	Mixed Waste Disposal Trenches	\$783	\$567,373	Maintains the Mixed Waste Disposal Trenches (MWDT) in minimum safe operations, within the MDSA Safety Basis and environmental permits. Provide performance of TSR, environmental, and facility grounds audits and inspections as well as maintaining TSR/environmental equipment and systems operable. Perform required inspections/ surveillances of stored LLW, LLMW, and any other stored waste. Minimal maintenance to support up-keep of the facility grounds and management of leachate generated from the MWDT as well as maintenance of the leachate transport tanker.
RL-0013C	Environmental Restoration Disposal Facility (ERDF)	\$38	\$567,411	Funding supports core resources and interface pending transfer from RL-0041 to RL-0013.
RL-0030	Groundwater Monitoring (GWM), integration & Assessment, and Operations & Maintenance	\$106,853	\$674,264	Accomplishes necessary actions to maintain integration of the groundwater and vadose zone, stay compliant with current laws & regulations requiring ongoing groundwater monitoring as well as interim Records of Decision which are focused on cleaning up groundwater and minimizing the amount of contamination from reaching the Columbia River.
RL-0012	KBC Sludge Removal	\$58,185	\$732,449	Funding supports the continuation of sludge removal design in FY11 with procurement of Multiple Canister Overpacks (Knock-Out Pot Disposition), processing of fuel like material from the Knock-Out Pots, Sludge Treatment Storage Containers and a Phase I storage activities. Failure to fund this element will delay treatment of sludge and require additional costs to ensure safe and secure surveillance and maintenance of sludge material until treatment and disposition can be supported.

Richland Analytical Building Blocks

FY 2012 - Draft

(\$ in 000's)

PBS	ABB	FY12	FY12 Cumulative	FY12 Description
RL-0013C	T-Plant Base Operations	\$9,671	\$742,120	Funding provides the operations necessary to support K-Basin sludge storage; these activities require T Plant base operations.
RL-0100	Natural Resource Damage Assessment	\$6,000	\$748,120	The Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) requires both cleanup and restoration of contaminated sites. The federal trustees (U.S. Departments of Energy, Interior, and Commerce), after reviewing the CERCLA Natural Resource Damage Assessment (NRDA) regulations (43 CFR Part 11.23(f)(4)) decided on April 3, 2007 to initiate the legally required injury assessment phase of NRDA. The Federal Trustees found moving forward with NRDA assessment activities is essential and allows an iterative NRDA process that is informed by ongoing CERCLA cleanup activities and remedial decision-making, including ecological risk assessments. This funding allows the legally required process to occur in a time frame where injury determinations can affect remediation actions, therefore reducing eventual costs of meeting both cleanup and resource restoration. The funding also supports RL's responsibilities to support the Natural Resource Trustee Council and serve as Trustee.
RL-0011	PPF D&D	\$156,988	\$905,108	Funding supports progress toward completion of deactivation and decommissioning activities to achieve "ready-for-demolition" of 234-5Z, 291-Z, 291-Z Stack, 243-Z, 2721-Z, 236-Z (PRF), 242-Z, 2736-Z/ZB Complex and ancillary facilities. Activities include deactivation and decommissioning and removal of contaminated ducts, filter boxes, process vacuum system piping, process equipment and process support systems (i.e., criticality, HVAC, Fire Protection, electrical). The scope supports decommissioning of the PPF Complex working toward TPA Milestone M-083-00A PPF facility transition and disposition by 2016.
RL-0013C	TRU Repackaging	\$6,166	\$911,274	Funding provides the operations necessary to repack over-packed 55-gallon drums prior to WIPP certification and as required by TPA milestone M-91-46.
RL-0013C	Program Mgmt	\$5,497	\$916,771	Provides incremental project management and support for waste retrieval, treatment and disposition from TRU Retrieval.
RL-0013C	Central Waste Complex	\$3,290	\$920,061	Funding provides incremental for operations necessary to store and receive low-level waste, mixed low-level waste, and transuranic waste at the Central Waste Complex (CWC) from TRU Retrieval.
RL-0013C	WRAP Operations	\$4,638	\$924,699	Incremental Funding provides operations to support characterization, repackaging, receipt and shipment of transuranic waste. TRU repackaging requires operations of the Waste Receiving and Processing Facility.
RL-0013C	TRU Disposition	\$20,026	\$944,725	Support CCP to characterize and certify CH and RH TRU waste for shipment to WIPP. Up to seven shipments to WIPP are supported at funding level.
RL-0013C	TRU Retrieval	\$37,363	\$982,088	Funding supports TRU retrieval capability in order to meet TPA M-91-40 milestones for retrievably stored waste.

Richland Analytical Building Blocks

FY 2012 - Draft

(\$ in 000's)

PBS	ABB	FY12	FY12 Cumulative	FY12 Description
RL-0013C	MLLW Treatment	\$10,123	\$992,211	Provides for treatment and disposal of Low Level Waste (LLW) and Mixed Low Level Waste (MLLW) from TRU retrieval. This element includes utilization of offsite commercial MLLW treatment and disposal contracts. Supports treatment and disposal of MLLW required under TPA M-91-42 and M-91-43 compliance milestones and DOE 435.1 requirements.
RL-0030	Modifications & Expansions of Groundwater Systems	\$7,665	\$999,876	Accomplishes necessary modifications and expansions of existing remediation systems, including the deployment of chemical and biological treatment to select areas. Complete expansion of the 100-NR-2 apatite permeable sequestration/reactive barrier vadose zone/aquifer from 900 feet to 1500 feet in the groundwater and from 300 feet to 900 feet in the vadose zone. Treat expansion area (600 feet) upper vadose zone at 100-NR-2 with selected technology. Supports the following TPA target milestones; M-016-110-T01, M-016-110-T03 and M-016-110-T05.
RL-0041	Balance of Nuclear Facility D&D - River Closure Project	\$261,524	\$1,261,400	Funding will support continued Field Remediation (FR), Deactivation/Decontamination/Decommissioning/Demolition (D4), Interim Safe Stabilization (ISS) of reactors, and Environmental Restoration Disposal Facility (ERDF) operations along the Columbia River Corridor as well as maintaining critical functions in engineering, safety, health, and quality (SH&Q), environmental compliance, and project controls. Each of these activities are critically essential elements to: 1.) reducing the risk inherent in these sites that are in close proximity to the shoreline of the Columbia River; 2.) maintaining compliance with the consent agreement jointly signed with the regulators (Tri-Party Agreement [TPA]); 3.) shrinking the footprint of the Site to a much smaller (and more manageable) 75 square mile geographic area (versus 540 square miles currently); and completing the project on schedule by FY 2015.
RL-0041	K Area Remediation	\$38,540	\$1,299,940	These activities are essential elements to: 1.) reducing the risk inherent in these sites in close proximity to the shoreline of the Columbia River; 2.) maintaining compliance with the consent agreement jointly signed with the regulators (TPA); 3.) shrinking the footprint of the Site to a much smaller (and more manageable) 75 square mile geographic area (versus 586 square miles currently); and completing the project on schedule by FY 2015.
RL-0030	Modifications & Expansions of Groundwater Systems	\$31,837	\$1,331,777	Accomplishes necessary modifications and expansions of existing remediation systems in the Central Plateau, including the deployment of chemical and biological treatment to select areas.
RL-0030	Complete 100 and 300 Areas River Corridor CERCLA RI/FS/PP to Obtain Final Decisions	\$15,742	\$1,347,519	Funds activities to complete RI/FS/PP and Record of Decisions for 100 and 300 Areas. All proposed plans are required to be submitted no later than 12/31/2011

Richland Analytical Building Blocks

FY 2012 - Draft

(\$ in 000's)

PBS	ABB	FY12	FY12 Cumulative	FY12 Description
RL-0030	Complete Central Plateau Groundwater, Outer Area & Deep Vadose Zone CERCLA RI/FS/PP to Obtain Final Decisions	\$6,667	\$1,354,186	Funds activities to complete characterization and obtain final groundwater cleanup decisions on Hanford's Central Plateau and the waste sites in the Outer Area of Hanford's Central Plateau including the treatability tests for remediation of deep vadose zone contamination in waste sites located in the Inner Areas of Hanford's Central Plateau.
RL-0030	Complete Central Plateau Inner Area, Canyon Facilities and waste sites CERCLA RI/FS to Obtain Final Decisions	\$22,403	\$1,376,589	Funds activities to obtain final cleanup decisions for the large Canyon facilities and waste sites located in the Inner Areas of Hanford's Central Plateau. complete the Record of Decision for implementing the final remedies for the 200-PW-1,3, 6 and 200-CW-5 Operable Units. Achieves significant progress towards the completion of the remaining necessary characterization and supporting decision documentation that are needed to complete the CERCLA RI/FS process and obtain the final Records of Decision for the Central Plateau Inner Area, Canyon Facilities, and surrounding waste sites.
RL-0030	Ramp up of 200 West Groundwater Remediation Facility	\$12,309	\$1,388,898	Funds the ability to expand the 200 West ground water remediation system treatment well network to address the final remedy associated with the 200-UP-1. This also focuses on cleaning up groundwater and minimizing the amount of contamination from reaching the Columbia River.
RL-0040	Zone 29 (Outer Area)	\$31,350	\$1,420,248	Funding supports waste site remediation in the Outer Zone in support of the Central Plateau Completion Strategy.
RL-0040	Zone 18 (U Plant Zone)	\$79,315	\$1,499,563	Funding supports the zone remediation planning, facility D&D and U Plant Canyon D&D
RL-0030	Deactivation and Decommissioning of interim and/or final groundwater cleanup remedies at the end of their lifecycle	\$996	\$1,500,559	Funding for deactivation and decommission groundwater cleanup remedies that no longer are required to support groundwater cleanup on the Hanford Site of interim remediation and treatability test systems which will not continue to be employed as part of the final cleanup Records of Decision.
RL-0013C	Alpha Caisson Retrieval	\$37,488	\$1,538,047	Alpha Caisson Retrieval - Provides for equipment and activities necessary to retrieve RH TRU waste from the burial grounds, including RH TRU from the 200W area caissons as required by TPA Milestone M-91-41. Caisson waste retrieval will require specialized retrieval methods. These are preliminary estimates as of CD-1.
RL-0013C	Alpha Caisson Processing	\$43,409	\$1,581,456	Provides for equipment and activities necessary to process RH TRU waste from the burial grounds, primarily RH TRU from the 200W area caissons as required by TPA Milestone M-91-44. These are preliminary estimates as of CD-1.
RL-0013C	TRU Repackaging (Large Box processing)	\$13,300	\$1,594,756	Funding supports the processing of large container TRU waste in support of TPA milestone M-91-44.
RL-0013C	Capsule Storage & Disposition	\$2,174	\$1,596,930	Funding supports planning, engineering and design for dry storage of cesium and strontium capsules.

Richland Analytical Building Blocks

FY 2012 - Draft

(\$ in 000's)

PBS	ABB	FY12	FY12 Cumulative	FY12 Description
RL-0013C	SNF Disposition	\$1,268	\$1,598,198	Funding provides for compliance with Nuclear Waste Policy Act requirements by providing technical, quality assurance, and programmatic support in accordance with the Office of Civilian Radioactive Waste Management (OCRWM) licensing activities affecting Hanford spent nuclear fuel inventories. Funding also provides for activities necessary to receive found fuel from the River Corridor and 100 K Area remediation projects.
RL-0013C	Integrated Disposal Facility	\$680	\$1,598,878	Funding supports preparation of the Integrated Disposal Facility (IDF) that will be used to safely dispose of Hanford's low-level waste and mixed low-level waste. Activities include development of the final authorization basis for IDF, updates to associated Performance Assessment and permits following approval of the Tank Closure and Waste Management EIS.