

Richland Analytical Building Blocks

FY 2015

\$ in Thousands

Draft Pre-Decisional

PBS	ABB Title	FY 2015 (Range \$000)	FY 2015 Cumulative Range	FY 2015 Description
RL-0030	Groundwater Monitoring (GWM), integration & Assessment, and Operations & Maintenance	100,000 - 120,000	100,000 - 120,000	Accomplishes continued integration of Site-wide groundwater and vadose zone cleanup activities, groundwater contamination monitoring, as well as operations, maintenance, and necessary modifications of existing remediation systems.
RL-0041	River Corridor Contract Site Wide Services	12,000 - 15,000	112,000 - 135,000	Site-wide services are those min-safe and essential services that serve as key enablers to the 2015 vision and cleanup in general. These services represent day-to-day operations and maintenance of fire protection, emergency services, roads, potable water, sanitary sewer, electrical and other utilities, as well environmental, safety, health, quality and analytical services.
RL-0012	K Basin West Facility Operations & Maintenance	35,000 - 43,000	147,000 - 178,000	Provides operation and maintenance support to maintain the K West Basin, CAT 2 nuclear facility, in a safe and compliant manner. Funding also supports minimum required surveillance and maintenance activities.
RL-0042	FFTF Surveillance and Maintenance	2,100 - 2,600	149,100 - 180,600	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-throughs, 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	Hanford Site Safeguards and Security	65,000 - 80,000	214,100 - 260,600	Provides minimum safe and essential services for maintaining appropriate and compliant Safeguards and Security programs for the Hanford site. Programs include access controls, emergency response, physical security Material Control and Accountability, Information Security, Personnel Security, and Protective Force programs required for the protection of Special Nuclear Material.

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RL-0042	Site Wide Services for FFTF	1,300 - 1,600	215,400 - 262,200	Site-wide services are those min-safe and essential services that serve as key enablers to the 2015 vision and cleanup in general. These services represent day-to-day operations and maintenance of fire protection, emergency services, roads, potable water, sanitary sewer, electrical and other utilities, as well environmental, safety, health, quality and analytical services. These are the minimum services that must be made available in order for workers to be on-site and safely perform work. Site-wide services are centrally planned and managed, while being proportionately funded across multiple PBSs.
RL-0011	Site Wide Services for PFP	23,000 - 28,000	238,400 - 290,200	Site-wide services are those min-safe and essential services that serve as key enablers to the 2015 vision and cleanup in general. These services represent day-to-day operations and maintenance of fire protection, emergency services, roads, potable water, sanitary sewer, electrical and other utilities, as well environmental, safety, health, quality and analytical services. These are the minimum services that must be made available in order for workers to be on-site and safely perform work.
RL-0012	Site Wide Services for K Basin Operations and Closure	17,000 - 21,000	255,400 - 311,200	Site-wide services are those min-safe and essential services that serve as key enablers to the 2015 vision and cleanup in general. These services represent day-to-day operations and maintenance of fire protection, emergency services, roads, potable water, sanitary sewer, electrical and other utilities, as well environmental, safety, health, quality and analytical services. These are the minimum services that must be made available in order for workers to be on-site and safely perform work.
RL-0013	Site Wide Services for Solid Waste Stabilization and Disposition	52,000 - 63,800	307,400 - 375,000	Site-wide services are those min-safe and essential services that serve as key enablers to the 2015 vision and cleanup in general. These services represent day-to-day operations and maintenance of fire protection, emergency services, roads, potable water, sanitary sewer, electrical and other utilities, as well environmental, safety, health, quality and analytical services. These are the minimum services that must be made available in order for workers to be on-site and safely perform work.

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RL-0030	Site Wide Services for Soil and Water Remediation	19,400 - 23,700	326,800 - 398,700	Site-wide services are those min-safe and essential services that serve as key enablers to the 2015 vision and cleanup in general. These services represent day-to-day operations and maintenance of fire protection, emergency services, roads, potable water, sanitary sewer, electrical and other utilities, as well environmental, safety, health, quality and analytical services. These are the minimum services that must be made available in order for workers to be on-site and safely perform work.
RL-0040	Site Wide Services for Nuclear Facility D&D Remainder of Hanford	29,600 - 36,200	356,400 - 434,900	Site-wide services are those min-safe and essential services that serve as key enablers to the 2015 vision and cleanup in general. These services represent day-to-day operations and maintenance of fire protection, emergency services, roads, potable water, sanitary sewer, electrical and other utilities, as well environmental, safety, health, quality and analytical services. These are the minimum services that must be made available in order for workers to be on-site and safely perform work.
RL-0040	S&M and Min-Safe for Central Plateau Facilities and Waste Sites	12,000 - 14,600	368,400 - 449,500	Funding supports surveillance and maintenance (S&M) activities necessary to ensure minimum safety for Central Plateau waste sites and facilities. Also supports core project management staff for S&M. This includes: ES&H oversight, quality management, safety and job hazards analysis, and technical support.
RL-0040	HAMMER	6,400 - 7,800	374,800 - 457,300	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-0040	Infrastructure	100 - 120	374,900 - 457,420	Funding provides necessary site infrastructure planning, upgrades, replacement and repairs to support cleanup.

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RL-0013	Canister Storage Building Spent Nuclear Fuel Management	6,800 - 8,300	381,700 - 465,720	Provide operations necessary to support safe and compliant interim storage of Spent Nuclear Fuel (SNF). Included are activities to operate and maintain the Canister Storage Building (CSB) and 200 Area Interim Storage Area (ISA) facilities and associated structures, operating systems and equipment and monitoring systems within the authorization envelope.
RL-0013	Capsule Storage & Disposition	11,000 - 14,000	392,700 - 479,720	Operate and maintain the Waste Encapsulation and Storage Facility (WESF) and associated structures, operating systems and equipment, and monitoring systems within the authorization envelope; and to maintain systems necessary for environmental compliance, radiological control, personnel safety and capsule integrity.
RL-0013	Solid Waste Program Management Activities	23,000 - 28,000	415,700 - 507,720	Provides core project management staff for waste and fuels min safe operations necessary to manage low-level waste, mixed low-level waste, transuranic waste, liquid effluents, cesium/strontium capsules, and irradiated nuclear fuel. Provides administration and coordination of essential 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. Prepare annual M-091-03 Project Management Plan. This effort directly supports M-091-03I (6/30/15).
RL-0013	Liquid Effluent Facility Operations	22,000 - 26,000	437,700 - 533,720	Provide min safe operations and necessary upgrades to treat Hanford site effluents in accordance with state permit requirements. Facilities support ongoing site cleanup activities including: groundwater remediation and radioactive waste tank volume reduction.

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RL-0013	T-Plant Base Operations	16,000 - 20,000	453,700 - 553,720	Maintains T Plant Complex in a safe, compliant, and cost-effective manner in accordance with DOE requirements, safety authorization basis documents, State and Federal regulations and acceptance/storage criteria for LLW, MLLW, and TRU waste. Supports surveillance and maintenance. Provides the operations necessary to support K-Basin sludge storage (M-016-176). Also provide the base operations necessary for treatment and repackaging of MLLW and TRU waste for subsequent disposal. Supports TPA milestone M-091-46E.
RL-0013	Integrated Disposal Facility (IDF) Min Safe Condition and Performance Assessment	1,800 - 2,200	455,500 - 555,920	Provides min safe operations of the IDF in a safe and permit compliant manner prior to the facility being placed in operational mode. Also includes producing a Performance Assessment following the approval of the Tank Closure and Waste Management Environmental Impact Statement (EIS) and receiving needed disposal authorization for the receipt of waste.
RL-0013	WRAP Base Operations	11,000 - 13,800	466,500 - 569,720	Maintains WRAP base operations necessary for characterization and repackaging of transuranic waste for subsequent shipment to the Waste Isolation Pilot Plant (WIPP) for disposal. This effort directly supports TPA Milestone M-091-46E (9/30/15).
RL-0013	Central Waste Complex Operations and Storage	10,000 - 12,000	476,500 - 581,720	Maintains the Central Waste Complex (CWC) and the Low Level Burial Grounds (LLBG) in a min safe and compliant condition, and provides operations necessary to accept and store low-level, mixed low-level, and transuranic wastes at the CWC and LLBG in a safe, compliant, and cost-effective manner in accordance with DOE requirements, safety authorization basis documents, and State/Federal regulations.

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RL-0013	Mixed Waste Disposal Trenches operation	600 - 750	477,100 - 582,470	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 Low Level Waste (LLW), Low Level Mixed Waste (LLMW), and any other stored waste. Maintenance to support the facility grounds and management of leachate generated from the MWDT, as well as, maintenance of the leachate transport tanker.
RL-0013	Solid Waste Base Operations	3,100 - 3,800	480,200 - 586,270	Maintain a Ready To Serve waste management program to support all Hanford projects and operations. Provide waste support activities (e.g., maintenance of waste acceptance criteria).
RL-0013	MLLW Treatment and Disposal	15,000 - 18,000	495,200 - 604,270	Provides for treatment and disposal of Low Level Waste (LLW) and Mixed Low Level Waste (MLLW) primarily generated through TRU retrieval. This element includes utilization of offsite commercial MLLW treatment and disposal contracts. Treatment of MLLW is required within one year in accordance with TPA M-091-42/43, WAC 173-303-140, and DOE O 435.1 requirements. Supports TPA milestones M-091-42/43.
RL-0041	Balance of Nuclear Facility D&D - River Corridor Closure Project	210,000 - 260,000	705,200 - 864,270	River Corridor Closure Project (RCCP) remediation and disposal of D4 and FR contaminated wastes. Remediation of the highly radioactive waste site (300-296) located beneath the 324 Building, the Radiochemical Engineering Complex (REC). Planning/design for the D4 of the 324 Building. Remediation of the high risk 618-11 burial ground which is located in close proximity to the Columbia River and is adjacent to an operating reactor. Operation of the Environmental Restoration Disposal Facility (ERDF).
RL-0012	KBC Sludge Treatment	76,300 - 93,300	781,500 - 957,570	Containerized Sludge Procurement, Installation, Readiness and Operations. Continues Phase 2 Sludge Treatment and packaging technology activities in support of TPA M-016-173.

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RL-0011	PFP Closure Project	142,000 - 174,000	923,500 - 1,131,570	Provide minimum safe and essential services for industrial, radiological and nuclear Plutonium Finishing Plant (PFP) facilities/structures and systems including the vital safety systems for ventilation, criticality monitoring and fire suppression systems. Supports deactivation and decommissioning activities for the major PFP facilities to achieve ready-for-demolition status in support of the 2015 Vision and future TPA milestones. Major facilities include: 234-5Z (Plutonium Conversion Facility), 291-Z (Exhaust Building), 291-Z (Stack), 236-Z (PRF), 243-Z (Low Level Waste Treatment Facility) and 242-Z (Waste Treatment Facility). This ABB supports TPA milestones M-083-44 and M-083-00A.
RL-0100	Regulatory Federal and State Grant Support and Site Emergency Preparedness	5,700 - 7,000	929,200 - 1,138,570	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	18,800 - 23,000	948,000 - 1,161,570	Funding supports: the WA State Dept. of Ecology RCRA Mixed Waste Fee; and WA State Department of Health's air emissions monitoring invoice. Additionally, this funding supports the Hanford Advisory Board for public involvement related to the cleanup mission at the Hanford site.
RL-0040	RL Directed Activities	44,000 - 54,000	992,000 - 1,215,570	Provides direct contracts for site wide activities (e.g. steam, occupational health medicine, analytical and IT services); RL integrated baseline development and certification; critical heating systems; essential planning and performance assessment activities to ensure efficient deployment of resources and implementation of new contracts to support 2015 Vision. Funding also support non-discretionary activities such as litigation, prime contract closeout, tribal commitments, rent, and land transfer activities.
RL-TD-0100	Uranium Sequestrian in Vadose Zone	1,100 - 1,400	993,100 - 1,216,970	Complete URGS TT Test Report, Issue Report & feed info into future decisions. URGS Monitor Test Conditions, Analyze Samples, Final Test Plan & SAP for Uranium Sequestration, Drilling and Sampling of injection boreholes.

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RL-0041	100K Area Remediation and D&D	162,000 - 198,000	1,155,100 - 1,414,970	Supports the Phase 2 facility D4 and waste site remediation activities in support of TPA M-016-143. Supports min safe and essential service activities for K Area Remediation.
RL-0030	Modifications & Expansions of Groundwater Systems	26,500 - 32,400	1,181,600 - 1,447,370	Accomplishes modifications of existing remediation systems in compliance with RODs. Provides for expansion of River Corridor and Central Plateau groundwater cleanup actions (e.g. pump & treat system) deployed in the River Corridor and Central Plateau of the Hanford Site.
RL-0030	Complete Central Plateau Ground Water, Outer Area & Deep Vadose Zone CERCLA RI/FS/PP	9,700 - 11,900	1,191,300 - 1,459,270	Achieves significant progress towards the completion of the necessary characterization and supporting decision documentation that are needed to complete the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) RI/FS process and obtain the final Records of Decision for the Central Plateau groundwater operable units Outer Area waste sites and deep vadose zone sites.
RL-0030	Complete Central Plateau Inner Area Canyon Facilities and waste sites CERCLA RI/FS	10,700 - 13,000	1,202,000 - 1,472,270	Achieves significant progress towards the completion of the necessary characterization and supporting decision documentation that are needed to complete the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) RI/FS process and obtain the final Records of Decision for the Central Plateau groundwater operable units.
RL-0013	TRU Repackaging	45,500 - 55,600	1,247,500 - 1,527,870	This scope consists of ramp-ups for operations at T-Plant and WRAP, operation of two repack lines at T-Plant, container venting operations, and repackaging of MLLW and TRU waste. Supports TPA milestone M-091-46E (9/30/15) and outyear TPA milestone M-091-46H (9/30/18). This scope also consists of conceptual engineering design for the Remote Handled/Large Package capability project for repackaging of RH/LP waste. Supports TPA outyear TPA milestones M-091-01A (9/30/16) and M-091-01B (9/30/18).

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RL-0013	TRU Retrieval	79,100 - 96,700	1,326,600 - 1,624,570	This funding enables the ramp-up of operations for suspect TRU retrieval necessary to complete annual commitments to TPA milestone M-091-40X for contact-handled TRU Retrievably Stored Waste. Provides for activities necessary to retrieve non-caisson RH TRU waste from the burial grounds as required by TPA Milestone M-091-40. This continues suspect TRU retrieval operations necessary to complete annual commitments to TPA milestones, and also procures the Trench Face Processing System in outyears.
RL-0013	TRU Disposition	845 - 1,040	1,327,445 - 1,625,610	Funding provides for base TRU program management activities to manage, perform, and coordinate TRU waste processing and certification-ready activities. This supports TPA Milestone M-091-46, CH small container and TRU shipping.
RL-0030	Complete 100 and 300 Areas River Corridor CERCLA RI/FS/PP to Obtain Final Decisions	1,600 - 2,000	1,329,045 - 1,627,610	Supports progress towards the development and issuance of Record of Decisions and follow-on Remedial Design/Remedial Action Work Plans needed to implement the final remedy for the 100 Area groundwater River Corridor operable units (100-NR-2, 100-HR-3, and 100-FR-3). Also supports progress towards the development and issuance of Record of Decision and follow-on Remedial Design/Remedial Action Work Plan needed to implement the final remedy for the 100-BC-5 groundwater River Corridor operable unit.
RL-0013	Alpha Caisson Cleanup Project	5,800 - 7,000	1,334,845 - 1,634,610	Funding supports the design and procurement of equipment necessary to process RH TRU waste from the burial grounds, primarily RH TRU from the 200W area caissons as required by TPA Milestone M-091-44.
RL-0040	Nuclear Facility D&D Program Management - Central Plateau	2,100 - 2,600	1,336,945 - 1,637,210	Provide core project management staff for Surveillance and Maintenance of Central Plateau facilities and waste sites. This includes: ES&H oversight, quality management, safety and job hazards analysis, technical support and integration with site activities.
RL-0040	Zone 18 (U Plant Zone)	29,200 - 35,700	1,366,145 - 1,672,910	Funding supports U Plant Canyon remediation and disposition; TPA milestone M-016.

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RL-0040	Zone 3 (200-W Ponds Zone)	47 - 57	1,366,192 - 1,672,967	Supports planning for 200 W ponds remediation.
RL-0013	SNF Disposition	280 - 345	1,366,472 - 1,673,312	Supports Off-Site SNF Disposition planning.