

Richland Analytical Building Blocks
FY 2011

PBS	ABB	FY11	FY11 PBS Cum	FY11 Cumulative	FY11 Impact Narrative
RL-0020	Safeguards and Security	\$77,412	\$77,412	\$77,412	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 CSB. 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-0011	PFP Maintain Safe & Secure PFP	\$15,681	\$15,681	\$93,093	Funding supports minimum safe and essential services for over forty radiological and nuclear PFP 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 program. Failure to fully fund this element would impact the project's ability to ensure minimum safe operations and essential services for the vital safety systems.
RL-0012	KBC Basin/Facility Operations & Maintenance	\$17,000	\$17,000	\$110,093	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. Failure to fund this element would result in an impact to the site's ability to ensure worker and public safety.
RL-0040	S&M and Min-Safe for Facilities and Waste Sites	\$12,919	\$12,919	\$123,012	Funding supports surveillance and maintenance activities necessary to ensure minimum safety for waste sites and facilities. If not funded, hazards to the worker, public and the environment would occur due to potential spread of existing contamination and surplus facilities may be unsafe for entry for required surveillance and maintenance activities to ensure confinement of contaminants and hazards control.
RL-0042	FFTF D4	\$2,990	\$2,990	\$126,002	Funding supports long-term safe and compliant surveillance and maintenance for FFTF 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. Failure to fund this activity will result in compromise to public and worker safety as well as inability to defer final D&D activities in support of higher priority work.

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RL-0011	PFP Program Mgmt & Support	\$23,768	\$39,449	\$149,770	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. Failure to fully fund this element would impact the site's ability to perform the necessary planning, reporting and oversight activities to complete the D&D of PFP facilities by FY 2016.
RL-0011	Site Wide Services	\$25,520	\$64,969	\$175,290	Site-wide services were planned and proportionately spread across all PBSs for the FY 2011 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. Failure to fund this element will result in immediate shutdown of the Hanford site due to health and safety concerns and violations. Furthermore, facilities cannot be occupied without fire protection, emergency services, potable water, sanitary sewer, etc., and therefore no work could be performed in those facilities.
RL-0012	Site Wide Services	\$15,597	\$32,597	\$190,887	Site-wide services were planned and proportionately spread across all PBSs for the FY 2010 Budget Submittal. The 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. Failure to fund this element will result in immediate shutdown of the Hanford site due to health and safety concerns and violations. Furthermore, facilities cannot be occupied without fire protection, emergency services, potable water, sanitary sewer, etc., and therefore no work could be performed in those facilities.
RL-0013C	Site Wide Services	\$38,340	\$38,340	\$229,227	Site-wide services were planned and proportionately spread across all PBSs for the FY 2011 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. Failure to fund this element will result in immediate shutdown of the Hanford site due to health and safety concerns and violations. Furthermore, facilities cannot be occupied without fire protection, emergency services, potable water, sanitary sewer, etc., and therefore no work could be performed in those facilities.

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RL-0042	Site Wide Services	\$669	\$3,659	\$229,896	Site-wide services were planned and proportionately spread across all PBSs for the FY 2010 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. Failure to fund this element will result in immediate shutdown of the Hanford site due to health and safety concerns and violations. Furthermore, facilities cannot be occupied without fire protection, emergency services, potable water, sanitary sewer, etc., and therefore no work could be performed in those facilities.
RL-0040	RL Directed Activities	\$25,874	\$38,793	\$255,770	Funding supports: direct contracts for site wide activities (steam, occupational health medicine, curation of historical artifacts); RL integrated baseline development and certification. Failure to fund this element will result in the inability to support 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-0030	Site Wide Services	\$54,995	\$54,995	\$310,765	Site-wide services were planned and proportionately spread across all PBSs for the FY 2010 Budget Submittal. These services include, but are not limited to: Hanford Fire Department; Emergency Operations; water services; sewer utilities; sanitary waste disposal; electrical distribution systems; and road maintenance. This assessment also covers analytical services, biological control (snake, rodent and insect control), calibration services, and fleet services. These are minimum services that must be made available in order for workers to safely be on site. Failure to fund this element will result in immediate shutdown of the Hanford site due to health and safety concerns and violations. Furthermore, facilities cannot be occupied without fire protection, emergency services, potable water, sanitary sewer, etc., and therefore no work could be performed in those facilities.
RL-0040	Site Wide Services	\$22,212	\$61,005	\$332,977	Site-wide services were planned and proportionately spread across all PBSs for the FY 2010 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. Failure to fund this element will result in immediate shutdown of the Hanford site due to health and safety concerns and violations. Furthermore, facilities cannot be occupied without fire protection, emergency services, potable water, sanitary sewer, etc., and therefore no work could be performed in those facilities.

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RL-0013C	Capsule Storage & Disposition	\$6,330	\$44,670	\$339,307	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	\$15,612	\$60,282	\$354,919	This element provides for overall project management, coordination, direction, and customer interface for operation of the 200 Area Waste Stabilization and Disposition Project, to achieve overall Hanford site clean up mission requirements. Included sub-elements comprise generator services (transportation, storage and disposal facilities operation), the waste program (strategic planning and integration), project management and support, waste movement transportation and packaging oversight support, technical support, and supporting the preparation of the land disposal restriction annual report. Reductions in funding would result in reduced levels of effort within project sub-elements.
RL-0041	River Corridor Cleanup	\$52,500	\$52,500	\$407,419	This funding provides surveillance and maintenance of nuclear and support facilities and continues operations of specific key utilities (water, sewer electrical). If this funding is not provided, worker safety will be at risk and minimum required mission activities will not be supported.
RL-0013C	Canister Storage Building	\$4,271	\$64,553	\$411,690	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 SNF 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	Integrated Disposal Facility	\$469	\$65,022	\$412,159	Funding supports the minimum base operations and 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, and updates to associated Performance Assessment and permits following approval of the Tank Closure and Waste Management EIS. Failure to fund these activities will result in the Site's inability to support waste disposition schedules, including impact to planned disposal of immobilized low-activity waste from the Waste Treatment Plant and the Bulk Vitrification Pilot Plant.
RL-0030	GW/VZ Program Management	\$10,542	\$65,537	\$422,701	This funding supports the required project management required to operate the groundwater and vadose zone project. Failure to fund this effort would result in the project inability to complete the direct workscope planned (CERCLA Process, Installation of Pump & Treat Systems, Well Drilling, etc.).

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RL-0100	Regulatory Support Essential Services	\$16,461	\$16,461	\$439,162	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. Failure to fund this element will result in impacts to the Department's liaison with the public and Regulator community. Failure to fund this element will result in: lack of compliance with RCRA thereby leading to likely incurrence of fines and penalties; and inconsistency with Departmental policy to pay surrounding counties payments in lieu of taxes which will most likely result in impacts to local communities and political support.
RL-0040	HAMMER	\$6,352	\$67,357	\$445,514	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 safe operations. If this element is not funded, the primary mission of HAMMER to focus on the Hanford workforce as its first priority, addressing the safety and health of its workers, environmental compliance, and management directed activities will not be supported.
RL-0040	Infrastructure & Real Estate	\$26,063	\$93,420	\$471,577	Funding supports necessary site infrastructure upgrades, replacements and repairs. In FY11, 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; installation of potable water lines; real estate management; and supplemental NEPA analysis. If funding is not provided, critical site access will be impacted and worker safety will be jeopardized due to inadequate fire protection and water quality. These upgrades have been previously delayed from previous years in order to accommodate higher priority work and failure is imminent.
RL-0041	Nuclear Fac D&D RC Wide Services	\$20,578	\$73,078	\$492,155	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. Failure to fund this element will result in immediate shutdown of the River Corridor Closure segment of the Hanford site due to health and safety concerns and violations.

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RL-0100	Regulatory Federal and State Grant Support	\$6,325	\$22,786	\$498,480	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 and Oregon's relative priorities for risk-based cleanup; essential independent monitoring during events from the WA State Department of Health; and the WA State Dept. of CERCLA grant. Failure to fund this element will result in failure to support State regulatory and community support. Additionally, if not funded, grant recipients will be less effective in protecting the public in a Hanford-generated emergency.
RL-0040	Program Management	\$6,221	\$99,641	\$504,701	Funding supports core project management staff for Surveillance and Maintenance. This includes: ES&H oversight, quality management, safety and job hazards analysis, and technical support. If not funded, contaminated facilities and waste sites would not have management or oversight, and ESH&Q Staff would not receive the proper training. No integration with site activities.
RL-0013C	MLLW Treatment	\$4,362	\$69,384	\$509,063	Funding provides for core management of low-level waste and mixed low-level waste treatment and disposal as well as the management of offsite commercial MLLW treatment/disposal contracts. Failure to fund this activity will impact treatment and disposal of MLLW required under TPA compliance milestones and scope being performed under the ARRA.
RL-0030	GW/VZ Integration & Assessments	\$13,628	\$79,165	\$522,691	This funding supports the required integration of the groundwater and vadose zone field activities on the Hanford site including strategic integration, technical integration, database management, and Remediation Technology and Decision support. Failure to fund this effort would result in the project inability to complete the direct workscope planned (CERCLA Process, Installation of Pump & Treat Systems, Well Drilling, etc.).
RL-0013C	Central Waste Complex	\$14,281	\$83,665	\$536,972	Funding provides the base operations necessary to store low-level waste, mixed low-level waste, and transuranic waste at the Central Waste Complex (CWC) in a safe, compliant, and cost-effective manner in accordance with DOE requirements, safety authorization basis documents, State and Federal regulations, the TPA, 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. Failure to fund this element impacts the Site's ability to retrieve, treat, and dispose of waste due to a lack of storage space and impacts the Site's ability to meet safety and health requirements for waste already in storage at CWC. Funding provides the required surveillance and maintenance of the Low Level Burial Grounds (LLBGs). Failure to fund this element impacts the Site's ability to meet environmental, safety and health requirements at the LLBGs and could impact continued disposal of LLW/MLLW in the mixed waste trenches in support of site cleanup activities.

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RL-0013C	Liquid Effluent Facility	\$24,153	\$107,818	\$561,125	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. Failure to fund this element would result in inability to treat and dispose of liquid wastes from the generators and dispose of treated liquid effluents from the 200 Area Liquid Effluent Facility under state permit requirements.
RL-0013C	Solid Waste Base Operations	\$3,176	\$110,994	\$564,301	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	T-Plant Base Operations	\$14,091	\$125,085	\$578,392	Funding provides the base operations necessary for maintaining operations of the T Plant Complex in a safe, compliant, and cost-effective manner in accordance with DOE requirements, safety authorization basis documents, State and Federal regulations, the TPA, environmental permit conditions, and acceptance/storage criteria for LLW, MLLW, and TRU waste. T Plant base operations are required to treat mixed low-level waste, and transuranic waste. Failure to fund this element impacts the Site's ability to treat mixed low-level waste to meet waste acceptance criteria for onsite disposal, and to treat transuranic waste to meet waste acceptance criteria for disposal at the Waste Isolation Pilot Plant. ARRA scope for TRU repackaging requires T Plant base operations.
RL-0013C	WRAP Base Operations	\$8,699	\$133,784	\$587,091	Funding provides the base operations necessary for maintaining operations of 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. Also provides base operations to support receipt and shipment of transuranic waste. Failure to fund this element impacts the Site's ability to ship transuranic waste to the Waste Isolation Pilot Plant (WIPP) for disposal. ARRA scope for TRU repackaging requires operations of the Waste Receiving and Processing Facility.

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RL-0013C	Mixed Waste Disposal Trenches	\$1,242	\$135,026	\$588,333	Funding provides the base operations necessary to support low-level waste and mixed low-level waste disposal at the Mixed Waste Trenches in a safe, compliant and cost-effective manner in accordance with DOE requirements, safety authorization basis documents, State and Federal regulations, the TPA, environmental permit conditions, and acceptance criteria. Failure to fund this element impacts the Site's ability to dispose of non-CERCLA waste prolonging storage needs. Failure to fund this element impacts the Site's ability to meet safety and health requirements at the Mixed Waste Trenches.
RL-0100	Natural Resource Damage Assessment	\$4,802	\$27,588	\$593,135	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. Failure to fund this element will result in failure to support DOE's NRTC responsibilities as defined by CERCLA and DOE NRDA policy.
RL-0030	GW/VZ Monitoring & Performance Assessments	\$13,879	\$93,044	\$607,014	This funding supports the required groundwater monitoring program at Hanford. Failure to fund this element would result in impact to the Site's ability to stay compliant with the current laws and regulations for groundwater monitoring.
RL-0012	KBC Sludge Treatment	\$61,419	\$94,016	\$668,433	Funding supports the continuation of sludge treatment design in FY11 with procurement of Multiple Canister Overpacks (Knock-Out Pot Disposition), Sludge Treatment Storage Containers and a Phase I storage pad. 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. Failure to fund will also further impact the site's ability to work toward the renegotiated M-16 TPA milestones.

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RL-0030	100 Area River Corridor Groundwater Remediation (Operations)	\$21,667	\$114,711	\$690,100	This funding supports the min safe activities for the 100 Area River Corridor groundwater operable units (100-HR-3, 100-KR-4, 100-NR-2, 100-FR-3, 100-BC-5) including well maintenance in support of the comprehensive Groundwater monitoring program, remediation operations, and project management. Failure to fund this element would result in an impact to the Site's ability to stay compliant with the interim Record of Decision and with the requirements for ongoing groundwater monitoring.
RL-0041	River Corridor Cleanup	\$241,341	\$314,419	\$931,441	Funding will support continued FR and D4, ISS, and ERDF operations along the Columbia River Corridor including maintaining critical functions in engineering, SH&Q, environmental compliance, and project controls. Each of these activities are critically 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	300-FF-5 Operable Unit	\$21,014	\$135,725	\$952,455	This funding supports 300-FF-5 Operable unit well maintenance in support of the comprehensive Groundwater monitoring program, remediation operations, and funds the CERCLA Process (Remedial Investigation / Feasibility Study and Proposed Plan) to obtain final Record of Decision for this Operable Unit. Failure to fund would result in an impact to the Site's ability to obtain the final Record of Decision.
RL-0041	K Area Remediation	\$53,641	\$368,060	\$1,006,096	Key accomplishments in FY 2011 to include: 1.) Initiate interim safe storage (ISS) of the 105-KE Reactor, or "cocooning," the process of demolishing all but the shield walls surrounding the reactor core and placing a new roof on the remaining structure. Field remediation (FR), D4, and ISS will also continue in other Areas along the Columbia River Corridor including maintaining critical functions in engineering, SH&Q, environmental compliance, and project controls. 2.) D4 five 100K Area facilities. 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	GW/VZ Integrated Field Work	\$8,212	\$143,937	\$1,014,308	This funding supports the required integration of the groundwater and vadose zone field activities on the Hanford site. Failure to fund this effort would result in the project inability to complete the direct workscope planned (CERCLA Process, Installation of Pump & Treat Systems, Well Drilling, etc.).

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RL-0030	GW/VZ Drilling	\$10,239	\$154,176	\$1,024,547	This funding supports the Groundwater characterization within the Central Plateau and installation of wells. Failure to fund this would result in delays in completing the Feasibility Study and Proposed plans. Therefore, causing RL to miss TPA commitment dates
RL-0030	Central Plateau Groundwater Remediation (Operations)	\$6,445	\$160,621	\$1,030,992	This funding supports continued operations and compliance monitoring for the Central Plateau Groundwater Operable units (200-ZP-1, 200-UP-1, 200-BP-5, 200-PO-1) and Central Plateau Soil Unit (200-PW-1) which includes a Soil Vapor Extraction Unit for the protection of groundwater. These activities include well maintenance, groundwater monitoring and reporting, pump and treatment operations, soil vapor extraction operations and project management. These activities are required by CERCLA Records of Decisions. Failure to fund this element will impact the Site's ability to stay compliant with the final and interim Records of Decisions and result in non-compliance with the RODs.
RL-0030	200-PO-1 Operable Unit	\$2,035	\$162,656	\$1,033,027	This funding supports making progress on the CERCLA process of obtaining final Record of Decision. Failure to fund this element would result in impact to the Site's ability to finalize the Record of Decisions.
RL-0030	100 Area River Corridor Groundwater Remediation	\$30,618	\$193,274	\$1,063,645	This funding supports implementation of the CERCLA Process (Remedial Investigation / Feasibility Study [RI/FS] and Proposed Plan) including final remedial investigation characterization to obtain the final Records of Decision, and construction of the final remedies for the 100 Area River Corridor groundwater operable units (100-HR-3, 100-KR-4, 100-NR-2, 100-FR-3, 100-BC-5). Failure to fund this workscope will impact the sites ability to complete the RI/FS process by 12/31/2012.
RL-0011	PFP Disposition (D4)	\$12,098	\$77,067	\$1,075,743	Funding supports deactivation, decontamination and removal of process and support systems and structures as needed to prepare facilities for demolition. This activity completes deactivation and disposition of gloveboxes/hoods and pencil tanks, disposition of chemicals, combustables and materials at risk (MAR) and initiates transition of support systems (i.e., criticality, HVAC, Fire Protection) for the 236-Z (PRF), 242-Z, 2736-Z/ZB Complex facilities. This funding supports TPA Milestone M-83-43, Complete Transition Of The 242-Z Waste Treatment Facility And 236-Z Plutonium Reclamation Facility to Support PFP Decommissioning due FY 2013. It supports D&D of the PFP Complex working toward TPA Milestone M-083-00A PFP facility transition and disposition by 2016. Failure to fund this element would impact the project to meet the compliance agreement and the site's ability to reduce the Hanford Footprint. Furthermore, lack of funding would require maintenance of the facilities in a safe and compliant mode for an extended period and increase the life cycle baseline cost.

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RL-0030	200-ZP-1 Operable Unit	\$19,257	\$212,531	\$1,095,000	This funding initiates Phase 2 installation of the 200 West Pump & Treat facility to remediate the groundwater. If funding is not received the initial expansion of the 200-ZP-1 system to accommodate treatment of 200-UP-1 contaminated groundwater will be delayed.