

**APPENDIX A**  
**PROJECT BASELINE SUMMARY**  
**DEFINITIONS**

## APPENDIX A

### PROJECT BASELINE SUMMARY DEFINITIONS

**RL-TW01 Tank Waste Characterization Project.** Characterizes 177 Hanford Site waste tanks and issues tank characterization reports for the tanks to satisfy Tri-Party Agreement milestone M-44-00 and the Defense Nuclear Facilities Safety Board (DNSFB) 93-5 commitment.

**RL-TW02 Tank Safety Issue Resolution Project.** Identifies hazards associated with storage of radioactive mixed waste in large underground waste storage double-shell and single-shell tanks at the Hanford Site. Provides the technical basis for closure of unreviewed safety questions, upgrade of the safety analysis report, the basis for monitoring for safe storage; and the technical basis for resolution of the safety issues (and removal from the watch list).

**RL-TW03 Tank Farm Operations Project.** Stores, treats, and immobilizes highly radioactive Hanford waste (including current and future tank waste and the cesium/strontium capsules) in an environmentally sound, safe, and cost-effective manner. This project includes the safe transition of West Tank Farms to an interim stabilized condition, mitigating tank 101-SY, operating waste transfer and associated systems supporting long-term safe storage of waste, and decontaminating outlying areas for turnover to the environmental restoration contractor.

**RL-TW04 Retrieval Project.** Removes and transfers wastes from 36 single-shell tanks to resolve safety issues, stabilize the tanks, provide feed for privatized waste immobilization, and allow for tank closure.

**RL-TW05 Process Waste Support.** Supports pretreatment and mobilization of the radioactive waste stored in 177 underground single- and double-shell tanks at the Hanford Site. Administers and integrates the vendor contracts; defines the systems necessary to support privatization; ensures that acceptable waste feed is delivered to the vendors (Phase I only); provides for decontamination and decommissioning of the vendor's facilities (Phase I only); develops requests for proposals; and awards, administers, and integrates the vendor contracts for retrieving, pretreating, and processing both low- and high-level wastes.

**RL-TW06 Privatization Phase I.** Consists of Part A and Part B. Part A is a 20-month development period to establish the technical, operational, regulatory, business, and financial elements required by privatized facilities that will provide waste treatment services on a fixed-unit-price basis. Based upon Part A performance, one or more of the contractors will be authorized to process waste in Part B at fixed-unit prices. Three low-activity waste envelopes and one high-level waste envelope (about 13% of total tank waste) will be processed during a 9-year period (2002-2011), followed by deactivation of the contractors' plants.

**RL-TW07 Privatization Phase II.** Involves full-scale production facilities for the retrieval and processing of all remaining tank waste and decontamination and decommissioning of facilities. Two or more private contractors will design, construct, operate, decontaminate, and decommission contractor-owned facilities and produce immobilized low-activity and high-activity waste products. Contractors will recover their costs through payments for waste products. Waste retrieval operations will also be privatized.

**RL-TW08 Privatization Infrastructure.** Provides the required facilities, physical interfaces and systems that will ensure that the privatization contractor is integrated into the Hanford Site infrastructure for both Phase I and II.

**RL-TW09 Immobilized Tank Waste Storage and Disposal Project.** Provides safe interim storage and final near-surface disposal on the Hanford Site for immobilized low-activity tank waste, interim storage for immobilized high-level waste, and provides for the final disposition of Hanford's cesium/strontium capsules.

**RL-TW10 TWRS Management Support.** Provides overall program management for Tank Waste Remediation System (TWRS); establishes and maintains the technical, cost, and schedule baselines for TWRS; and provides program integration, policy, oversight, and other required program/project services.

**RL-WM01 Spent Nuclear Fuels.** Addresses the urgent need to move metallic spent nuclear fuel (SNF) from the present degraded storage conditions in the 105 K East and 105 K West Basins in the 100 K Area along the banks of the Columbia River to safe interim storage in the 200 Area on the Central Plateau. Major objectives include: removing and repackaging K-Basins SNF into multicannister overpacks suitable for downstream fuel handling and interim storage; drying the fuel to remove free water to enable safe transport to and staging in the 200 Area; conditioning fuel to remove bound water for safe stable interim storage; removing sludge and debris collected in the K-Basins for disposition as low-level liquid waste or solid waste in accordance with disposition plans being developed; treating water contained in the basins to maintain water quality, safe conditions within the K-Basins, and reduce tritium levels; and consolidating Hanford's non-defense production reactor spent nuclear fuel in the 200 Area pending final disposition.

**RL-WM02 Canister Storage Building Operations.** Provides long-term (40 years), interim storage, operations, maintenance and surveillance of:

- 2,100 metric tons of irradiated metallic uranium fuel until the fuel is sent to a repository or otherwise dispositioned for up to 40 years

- Spent nuclear fuel from Fast Flux Test Facility (FFTF), the 324/325/327 buildings, Neutron Radiography Facility, Test Reactor and Isotope Production General Atomics, light water reactor fuel, and pressurized water reactor Core 2 Fuel currently located across the site. This long-term storage will include inventory accountability, material safeguards, facility surveillance, equipment maintenance, and other necessary operational activities.

**RL-WM03 Solid Waste Storage and Disposal.** Provides centralized facilities for the storage of solid radioactive mixed low-level and transuranic wastes and the disposal of solid radioactive low-level waste (excluding tank waste and sanitary wastes) for onsite and offsite generators. This includes the management, operations, surveillance, monitoring, and maintenance of facility buildings, burial grounds, and current waste inventories. Manages the receipt and storage or disposal of newly generated wastes from onsite and offsite generators.

**RL-WM04 Solid Waste Treatment.** Provides onsite and commercial mixed waste treatment, waste verification and repackaging, and decontamination services to customers throughout the Hanford Site. The work supports agreements with Tri-Party Agreement stakeholders and addresses specific milestones for initiating and completing treatment for a variety of low-level waste, low-level mixed waste, transuranic, and transuranic mixed wastes. Wastes are treated for disposal purposes under varying criteria. The work is accomplished through existing facilities on the Hanford Site (T-Plant complex and the Waste Receiving and Processing Facility) and through offsite treatment contracts.

**RL-WM05 Liquid Waste Program.** Provides an integrated system for managing liquid effluents and for reducing tank waste volumes using a combination of local and central treatment. Implementation of local treatment will remain with the generators; central treatment capabilities will be provided by the Liquid Waste Program. Includes overall program management of Liquid Waste Program and operation, maintenance, technical support, and management/administration of the following facilities: 242-A Evaporator, Liquid Effluent Retention Facility, 200 Area Effluent Treatment Facility, 200 Area Treated Effluent Disposal Facility, 300 Area Treated Effluent Disposal Facility, and 340 Waste Handling Facility. Responsible for operation and maintenance of the process sewer system; retention process sewer system, including the 307 Retention Basins; and Radioactive Liquid Waste System. Responsible for commitments identified in the Miscellaneous Streams Plan and Schedule, shutdown planning and integration for the 340 Handling Facility, and preparation of a biennial tritium treatment technology report as required by the Tri-Party Agreement.

**RL-WM06 Analytical Services.** Provides analytical services to site programs. Services include waste and environmental sample analysis, process control support, field and sampling services, development services, and site expertise in chemistry and data quality. Operates onsite analytical laboratories, contracts commercial services, establishes Site laboratory quality standards, and integrates all Hanford analytical services.

**RL-WM07 Waste Minimization.** Reduce generation and release of DOE multi-medial wastes and pollutants by implementing cost-effective waste minimization and pollution prevention technologies, practices, and policies with partners in government and industry while conducting operations in compliance with applicable environmental requirements.

**RL-TP01 B-Plant Sub-Project.** Transitions B Plant to a deactivated facility, and places it into a configuration suitable for long-term surveillance. This includes deactivation of the 800 foot B Plant canyon building and adjoining support facilities to an environmentally acceptable state and turning the facility over to the Environmental Restoration Program for final disposition.

**RL-TP02 WESF Sub-Project.** Maintains encapsulated cesium and strontium capsules containing 146 million curies of cesium-137 and strontium-90 and their daughter products in safe, environmentally sound, and cost-effective storage. Plans for and initiates activities needed to ensure that the systems and structures of the Waste Encapsulation and Storage Facility (WESF) are maintained in a condition that allows for safe storage of the cesium and strontium capsules. Develops and implements an updated Safety Analysis Report (SAR) and an Interim Safety Basis document that evaluates all interim safety requirements pending completion of the SAR. Develops an effective capsule inspection, leak detection, and recovery system. Reencapsulates failed and suspect cesium capsules into a configuration acceptable for WESF pool cell storage. Returns all cesium and strontium capsules from the Pacific Northwest National Laboratory (PNNL), including those shipped to PNNL for reencapsulation.

**RL-TP03 Plutonium Uranium Extraction Facility (PUREX) Sub-Project.** Chief emphasis is on the transition activities that remove, reduce, and/or stabilize the major radioactive sources and hazardous substances within the facilities. The PUREX heating, ventilating, and air-conditioning system will then be modified to minimize long-term surveillance and maintenance requirements, and the utility systems will be deactivated. PUREX surveillance responsibility will be turned over to EM-40 starting in fiscal year 1998.

**RL-TP04 300 Area/SNM Sub-Project.** Maintains facilities in a regulatory-compliant state until turnover to EM-40 is completed. Completes the isolation of the 313 South Building to reduce the safety risks of an unsafe roof. Completes closure of two remaining RCRA-permitted treatment, storage, and disposal systems. Completes deactivation/stabilization activities as described in the "Shutdown Plan for the 300 Area Fuel Supply Facilities" (WHC-SD-FL-SSP-002). Relocates/disposes 1200 MT of low enriched uranium.

**RL-TP05 PFP Deactivation.** Provides for the safe and orderly terminal cleanout and deactivation of seven of the nine major facilities and their associated support structures at the Plutonium Finishing Plant (PFP) Complex. Two major facilities (2736ZB, Product Shipping and Receiving Facility, and 2736Z, Plutonium Storage Facility) will not be deactivated at this time because of their mission of safe and secure storage of nuclear materials until at least 2025. The vaults are scheduled to be deactivated at that time.

**RL-TP06 PFP Stabilization.** Implements Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 94-01 and corrects related plutonium vulnerabilities by stabilizing,

repackaging, immobilizing and/or properly disposing all remaining plutonium-bearing materials in storage or holdup (leftover residues of varying quantities) at the PFP. One candidate line item is required to support the stabilization, packaging, and storage of plutonium-bearing materials at PFP in accordance with the schedule and requirements of DNFSB Recommendation 94-01. A line item consists of (1) an automated Plutonium Stabilization and Packaging System (SPS) and (2) 2736-Z Vault upgrades and 2736-ZB facility modifications, as necessary, to support the SPS and to enable long-term storage of the new 50-year storage container at PFP.

**RL-TP07 PFP Vault Management.** Provides for the safe and secure storage for special nuclear materials at the PFP Complex and provides the basic infrastructure with which the PFP stabilization and deactivation projects are dependent. Includes the plant systems, facilities, and processes that provide the minimum safe configuration for PFP, the plant infrastructure systems and projects, the support for International Atomic Energy Agency custodianship of vault #3, and safeguards and security systems replacement projects.

**RL-TP08 324/327 Facility Transition Project.** Covers the planning, deactivation, and minimum safe activities within the 324 and 327 facilities. The 324 and 327 facilities are performing selected stabilization activities in response to Tri-Party Agreement milestones (B-Cell Cleanout and the High-Level Vault Tank Closures) and to the vulnerability assessments (Cesium Capsule Removal and Legacy Fuel Removal). This project will remove and/or reduce human health and environmental hazards associated with the 324 and 327 facility. This project will place the facilities in the lowest radiological classification possible for surveillance and maintenance pending reuse or final decontamination and decommissioning.

**RL-TP09 K-Basin Deactivation.** Deactivates the K-Basins and associated ancillary facilities beginning in fiscal year 2002, after the fuel and sludge have been removed.

**RL-TP10 Accelerated Deactivation Project.** Deactivates all Hanford contaminated facilities not currently being deactivated or scheduled for deactivation under another PBS. There are 41 nonmobile contaminated facilities that are assumed to no longer have a viable mission or are expected to no longer have viable missions after fiscal year 2000.

**RL-TP11 Advanced Reactor Transition.** Includes the Fast Flux Test Facility (FFTF), the Plutonium Recycle Test Reactor/309 Building and Nuclear Energy legacies (Fuels and Materials Examination Facility, and several other Hanford facilities that were involved in developing and testing components for use in sodium. FFTF is currently in a "hot standby" condition while any future role it may play in the Department's dual-track tritium production strategy is evaluated. During "hot standby," deactivation activities are limited to washing and storing spent nuclear fuel assemblies and components, along with nonfueled reactor components that have reached the end of their useful life.

**RL-TP12 Transition Project Management.** Provides centralized program, project and business management to plan, execute, and control the Facility Stabilization Project. Provides for common safeguard and security support; centralized coordination of environmental, safety, health, radiological control and quality assurance; systems engineering; new technology

development and implementation support; policies and procedure development; excess facility and material planning (includes development of special projects such as K-Basin deactivation project, Hanford Surplus Facility Program 300 Area Revitalization project, Accelerated Deactivation project, etc.); Facility Stabilization Program strategic planning; procurement support; communications support; management of Special Nuclear Materials; human resources; and operations integration support. Provides support for technical development of 200 Area Canyon Entombment, and Fluor Daniel Hanford project management direction.

**RL-TP13 Landlord.** Preserves, upgrades, maintains, and forecasts cost-effective general infrastructure activities to facilitate the Hanford Site cleanup mission. Specific functions and services provided by the Landlord Program include utilities (i.e., steam, water, sanitary sewer, solid waste disposal, electrical and telecommunication distribution), transportation, general purpose facilities (includes general support shops and laboratories), services, and energy and land use management

**RL-TP14 Hanford Surplus Facility Program 300 Area Revitalization Project.** Provides a path forward for all 300 Area facilities not currently being managed under another PBS. This path forward includes monitoring and maintenance of facilities and grounds as required to assure containment of the radioactive and hazardous material; stabilization and deactivation of contaminated facilities; alternative cleanup of facilities, removing the legacy and liabilities of DOE operations only to the extent necessary for facility and area alternative use; final disposition of facilities, including sale, dismantlement for salvage, demolition, and alternative use of facilities where facility reuse is economically and practically feasible; alternative cleanup of facilities, removing the legacy and liabilities of DOE operations only to the extent necessary for facility and area alternative use; final disposition of facilities including sale, dismantlement for salvage, demolition, and alternative use of facilities where facility reuse is economically and practically feasible.

**RL-ER01 - 100 Areas Environmental Restoration Remedial Action.** The assessment, remedial design, and remedial action of past practices waste sites in the 100 Areas of the Hanford Site.

**RL-ER01 - 200 Areas Environmental Restoration Remedial Action.** The assessment, remedial design, and remedial action of past practices waste sites in the 200 Areas of the Hanford Site.

**RL-ER01 - 300 Area Environmental Restoration Remedial Action.** The assessment, remedial design, and remedial action of past practices waste sites in the 300 and 400 Areas of the Hanford Site.

**RL-ER04 - Environmental Restoration Disposal Facility.** The transportation of waste from the waste sites to the disposal facility and construction, operation, and closure of the disposal facility. The Environmental Restoration (ER) Disposal Facility will accept only those wastes generated by the ER Project at the Hanford Site.

**RL-ER05 - Surveillance and Maintenance.** The surveillance and maintenance of surplus facilities that have been assigned or transitioned to the ER Project and of past practices waste sites that have been assigned to the ER Project. This includes the surveillance and maintenance (S&M) for the facilities (Baseline Environmental Management Report estimates) that will be transitioned to the ER project in the future and support for the coordination of the transition activities with EM-60. The S&M activities are divided into two major areas: Radiation Area Remedial Action, which is S&M of the waste sites, and Surveillance and Maintenance, which is S&M of the surplus facilities.

**RL-ER06 - Decontamination and Decommissioning.** The decontamination and decommissioning of surplus facilities that have been assigned or transitioned to the ER Project. This includes the interim safe storage and final disposition of the nine surplus reactors. This includes the decontamination and decommissioning (D&D) of facilities (Baseline Environmental Management Report estimates) that will be transitioned to the ER project in the future.

**RL-ER07 - Environmental Restoration Long-term Surveillance and Maintenance.** The surveillance and maintenance after the remediation and D&D of the waste sites and facilities. This includes the revegetation of the remediated surface areas.

**RL-ER08 - Groundwater Management Project.** The groundwater remediation, monitoring and characterization, well maintenance, and decommissioning activities. The Groundwater Management Project is divided into three major areas: 100 Area Groundwater, 200 Area Groundwater, and Hanford Site Groundwater Management.

**RL-ER09 - Environmental Restoration N Area Deactivation.** Deactivation of N Reactor and the ancillary facilities and transition of the deactivated facilities to S&M.

**RL-ER10 - Environmental Restoration Program Management and Support.** The Program Management and Support function provides support to Quality, Environmental Safety and Health, Planning and Controls, Project Technical Support, and both RL and ER Contractor Project and Program Support.

**RL-ST01 PNNL Waste Management Project.** Provides waste management services and compliant operations in support of science and technology development for the Hanford Site cleanup activity. The research laboratory facilities needed for science and technology development are maintained in a minimum safe condition, and the required monitoring of these facilities is performed. Operational compliance services are provided in these facilities to meet regulatory requirements, including environmental, safety, and health regulations. The waste management infrastructure required to manage the packaging and disposal of currently generated wastes at PNNL is included.

**RL-OT01 Mission Support.** The Mission Support Project is comprised of five unique programs that support cross-cutting mission areas and contractors across the Hanford Site. Most of the activities will be required at some level throughout the life of the Hanford Site, which for planning purposes is assumed to be the year 2050. The following five programs conduct activities

under the Mission Support Project: (1) Site Planning and Integration, (2) Hanford Environmental Management Program, (3) Effluent Environmental Monitoring Program, (4) Site Systems Engineering, and (5) PNNL Public Safety and Resource Program.

**RL-OT02 Transportation and Packaging Services Headquarters.** This PBS is prepared at the DOE-HQ level.

**RL-OT03 Richland Analytical Services.** This PBS is prepared at the DOE-HQ level.

**RL-OT04 RL Directed Support.** Provides funding for various DOE-RL directed activities that are considered to be “RL Must Do’s.”

**RL-HM01 HAMMER.** Will broker and host training in six specific product lines: emergency operations, fire operations, environmental restoration and waste management, occupational safety and health, associated technologies, and law enforcement.

**RL-RG01 Regulatory Oversight.** With the transition of mission execution to a privatized approach, procuring waste processing services from a privately owned and controlled facility, traditional management and control by the DOE staff of technical operations of facilities is eliminated. A key element of the TWRS Privatization is the establishment of the Regulatory Unit to provide the radiological and nuclear safety regulation of the TWRS Privatization Contractor. This office assumes the safety oversight responsibilities which are formally authorized by the “Memorandum of Agreement for the Execution of Radiological, Nuclear, and Process Safety Regulation of the TWRS Privatization Contractors.” The aim of DOE with regard to the radiological and nuclear safety regulation of TWRS Privatization Contractors is to establish a regulatory environment that will permit privatization to occur on a timely, predictable, and stable basis with attention to safety consistent with that which would occur from regulation by an external agency.

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**APPENDIX B**  
**CROSS-WALK TO ACTIVITY**  
**DATA SHEETS**

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Project Hanford Breakdown Structure/Work Breakdown Structure/Project Baseline  
Summary/Activity Data Sheet Crosswalk - FY 1999 Budget Formulation.

| PBS #   | PBS TITLE   | PHBS<br>WBS | FY97 RL<br>WBS         | ADS  | Comments   |
|---|---|-------------|------------------------|--|--|
| <b>TANK WASTE REMEDIATION SYSTEMS PROJECT</b> |   |             |                        |  |  |
| RL-TW01                                       | Tank Waste Characterization Project               | 1.1.1.2.4   | 1.1.1.2.4              | 1130-0   |  |
| RL-TW02                                       | Tank Safety Issue Resolution Project              | 1.1.1.2.2   | 1.1.1.2.2              | 1110-0   |  |
| RL-TW03                                       | Tank Farm Operations                              | 1.1.1.2.1   | 1.1.1.2.1              | 1100-0<br>1100-1<br>1120-0<br>1120-2<br>1120-4<br>1120-7 | Not in MVT<br><br>ADS Cancelled                          |
| RL-TW04                                       | Retrieval Project                                 | 1.1.1.3.1   | 1.1.1.13.1             | 1210-0<br>1210-2<br>1210-3<br>1210-4                     |  |
| RL-TW05                                       | Process Waste Support                             | 1.1.1.3.2A  |                        | None ?   |  |
| RL-TW06                                       | Process Waste Privatization Phase I               | 1.1.1.3.2B  | 1.1.1.3.2<br>1.1.1.3.3 | 1230-0(P)<br>1240-0(P)                                   | Expect ADS recast--<br>1290-0                            |
| RL-TW07                                       | Process Waste Privatization Phase II              | 1.1.1.3.2C  | 1.1.1.3.2<br>1.1.1.3.3 | 1230-0(P)<br>1240-0(P)                                   | Expect ADS recast--<br>1290-0                            |
| RL-TW08                                       | Process Waste Privatization Infrastructure        | 1.1.1.3.2D  | 1.1.1.3.2<br>1.1.1.3.3 | 1230-0(P)<br>1240-0(P)                                   | Expect ADS recast--<br>1290-0                            |
| RL-TW09                                       | Immobilized Tank Waste Storage & Disposal Project | 1.1.1.3.3   | 1.1.1.3.4              | 1250-0   |  |
| RL-TW10                                       | TWRS Management Support                           | 1.1.X.X.X   | 1.1.X.X.X              | 1200-0   |  |
| <b>WASTE MANAGEMENT PROJECT</b>               |   |             |                        |  |  |
| RL-WM01                                       | Spent Nuclear Fuel Project                        | 1.4.1       | 1.4.1                  | 6696-0<br>6696-1   | Includes CSB<br>Operations through<br>project completion |
| RL-WM02                                       | Canister Storage Building Operations              | 1.2.1       | 1.2.1                  | None   | Post SNF Project   |
| RL-WM03                                       | Solid Waste Storage and Disposal                  | 1.2.1       | 1.2.1                  | 2200-0(P)<br>2200-1<br>2220-1<br>2250-0                  | Not in MVT   |

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|------------------------------------|-------------------------------------|-------------|----------------|---|--|
| RL-WM04                            | Solid Waste Treatment               | 1.2.1       | 1.2.1          | 2200-0(P)<br>2200-2<br>2320-0<br>2320-2 | LI Complete  |
| RL-WM05                            | Liquid Waste Program                | 1.2.2.1     | 1.2.2          | 2300-0<br>2300-1<br>2310-1              |  |
| RL-WM06                            | Analytical Services                 | 1.5.1       | 1.5.1          | 7100-0<br>7100-2<br>7100-3<br>7110-0    |  |
| RL-WM07                            | Waste Minimization                  | 1.5.6       | 1.5.6          | 7770                                    | Not in MVT   |
| <b>FACILITY TRANSITION PROJECT</b> |                                     |             |                |   |  |
| RL-TP01                            | B-Plant Sub-Project                 | 7.1.7       | 7.1.7          | 6626-0<br>6626-1                        |  |
| RL-TP02                            | WESF Sub-Project                    | 7.1.8       | 7.1.8          | 6627-0                                  |  |
| RL-TP03                            | PUREX Sub-Project                   | 7.1.1       | 7.1.1          | 6622-0                                  |  |
| RL-TP04                            | 300 Area/SNM Sub-Project            | 7.1.2       | 7.1.2          | 6623-0                                  |  |
| RL-TP05                            | PFP Deactivation                    | 7.1.3.X     | 7.1.3          | 6624-0(P)                               |  |
| RL-TP06                            | PFP Stabilization                   | 7.1.3.X     | 7.1.3          | 6624-0(P)<br>6625-0                     | Candidate Project Data Sheet returned from HQ had ADS 6630-0. Possible recast. |
| RL-TP07                            | PFP Vault Management                | 7.1.3.X     | 7.1.3          | 6624-0(P)                               |  |
| RL-TP08                            | 324/327 Facility Transition Project | 7.1.9       | 7.1.9          | 6619-0                                  |  |
| RL-TP09                            | K Basin Deactivation                | 7.1.X       |                | 6628-0                                  | Workscope to commence in FY 1998   |
| RL-TP10                            | Accelerated Deactivation            | 7.1.X       |                | 6629-0                                  | Workscope to commence in FY 1998   |
| RL-TP11                            | Advanced Reactor Transition         | 7.1.X       | 7.3<br>7.3     | 6641-0<br>6643-0                        | ADS 6640-0 & 6642-0 - decision to remove reporting of this data by RL          |
| RL-TP12                            | Transition Project Management       | 7.1.6       | 7.1.6          | 6620-0                                  |  |

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|--|--|-------------|-----------------------------------|--|------------|
| RL-TP13                                  | Landlord   | 7.5         | 7.5                               | 7661<br>7662<br>7663<br>7680-3<br>7680-11            |            |
| RL-TP14                                  | Hanford Surplus Facility<br>Program 300 Area Revitalization<br>Project | 7.1.X       | 7.1.X                             | None   |            |
| <b>ENVIRONMENTAL RESTORATION PROJECT</b> |  |             |                                   |  |            |
| RL-ER01                                  | 100 Area Source Remedial<br>Action                                     | 2.1         | 2.1                               | 3100-0<br>3125-0(P)                                  |            |
| RL-ER02                                  | 200 Area Source Remedial<br>Action                                     | 2.1         | 2.1                               | 3200-0<br>3000-0                                     | Not in MVT |
| RL-ER03                                  | 300 Area Source Remedial<br>Action                                     | 2.1         | 2.1                               | 3300-0<br>3390-0                                     | Not in MVT |
| RL-ER04                                  | Environmental Restoration<br>Disposal Facility (ERDF) Project          | 2.1         | 2.6                               | 3700-0   |            |
| RL-ER05                                  | Surveillance & Maintenance   | 2.2         | 2.2                               | 3500-0   |            |
| RL-ER06                                  | Decontamination &<br>Decommissioning                                   | 2.2         | 2.2                               | 3510-0<br>3020-0                                     |            |
| RL-ER07                                  | Long Term Surveillance &<br>Maintenance                                | 2.2         | 2.4                               | 3800-0   |            |
| RL-ER08                                  | Groundwater Management<br>Project                                      | 2.4         | 2.1<br>2.1<br>2.1<br>2.1<br>1.5.3 | 3110-0<br>3115-0<br>3125-0(P)<br>3210-0<br>7340-0(P) |            |
| RL-ER09                                  | N Pilot Project  | 2.5         | 2.2                               | 3600-0   |            |
| RL-ER10                                  | ER Program Management &<br>Support                                     | 2.3         | 2.3                               | 3400-0<br>3410-0                                     |            |

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|---|--|---|---|--|---|
| <b>SCIENCE &amp; TECHNOLOGY PROJECT</b>                               |  |   |   |  |   |
| RL-ST01   | PNNL Waste Management  | 1.7.1                                       | 1.7.1   | 8400-0<br>8410-0   |   |
| RL-ST02   | Science & Technology<br>Coordination<br>Tanks Focus Area<br>Mixed Waste Focus Area<br>Decontamination &<br>Decommissioning<br>Focus Area<br>Characterization Technologies<br>Efficient Separations<br>Robotics Technology<br>EM Science Program  | 3.5   | 3.5   |  | MPG only indicates one<br>PBS for these activities--<br>not consistent with<br>PHMB (also missing<br>Subsurface<br>Contamination) |
| <b>HAZARDOUS MATERIALS MANAGEMENT AND EMERGENCY RESPONSE (HAMMER)</b> |  |   |   |  |   |
| RL-HM01   | HAMMER   | 8.2   | 8.2   | 7221<br>7221-1   |   |
| <b>OTHER</b>  |  |   |   |  |   |
| RL-OT01   | MISSION SUPPORT<br>Environmental Support<br>Effluent & Environmental<br>Monitoring<br>Public Safety & Resource<br>Protection<br>Planning & Integration<br>Systems Engineering  | 1.5.2<br>1.5.2.2<br>1.7.2<br>1.8.2<br>1.8.3 | 1.5.2<br>1.5.3<br>1.7.2<br>1.8.2<br>1.8.3         | 7330-0<br>7340-0(P)<br>8500-0<br>7250-0(P)<br>7250-0(P)                | Expect ADSs to recast<br>to:<br>7226<br>7227<br>7228<br>7660  |
| RL-OT02   | Technical and Professional<br>Services   | 8.1   | 8.1   | 7601   |   |
| RL-OT03   | Richland Analytical Services   | 8.3   | 8.3   | 7603   |   |
| RL-OT04   | RL DIRECTED SUPPORT<br>Pacific Northwest National<br>Laboratory Voluntary<br>Reduction of Force<br>Tri-Party Agreement<br>State Funding<br>State of Oregon Hanford<br>Oversight<br>Program Support<br>Environ. Support-Misc<br>Hanford Contract Closeout<br>RL Public Support<br>Other |   | 1.8.1<br>7.4<br>7.4<br>7.4<br>7.4<br>1.8.1<br>7.4 | 103-0(P)<br>7215<br>7214<br>7223(P)<br>7216<br>103-0(P)<br>7224<br>n/a |   |

Project Hanford Breakdown Structure/Work Breakdown Structure/Project Baseline  
Summary/Activity Data Sheet Crosswalk - FY 1999 Budget Formulation.

| PBS #                      | PBS TITLE   | PHBS<br>WBS | FY97 RL<br>WBS | ADS                | Comments   |
|----------------------------|---|-------------|----------------|--------------------|------------|
| RL-OT05                    | RL DIRECTION/GSSC<br>Program Direction/GSSC<br>GSSC |             | 1.8.1<br>1.8.1 | 1000-PD<br>1000-SS |            |
| <b>REGULATORY OVERSITE</b> |   |             |                |                    |            |
| RL-RG01                    | TWRS Regulatory Unit                                | 8.4         | 8.4            | 1295-0             | Not in MVT |

\*Includes two files each

Notes: Based on Mission Planning Guidance, dated 2/21/97--different than Headquarters Guidance.

Headquarters completes PBSs

ADS = activity data sheet  
 CSB = constant support base  
 ER = Environment Restoration  
 GSSC = general support services contractor  
 H = high case  
 L = low/decrement case  
 MPG = mission planning guidance  
 MVT = Master Validation Table  
 (P) = Only a portion of the ADS ties to this PBS  
 PBS = project baseline summary  
 PHBS = Project Hanford Breakdown structure (2/11/97)  
 PHMB = Project Hanford Breakdown Structure  
 TWRS = Tank Waste Remediation System

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**APPENDIX C**  
**INTERIM AND FINAL ENDPOINT TARGETS**

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Table C-1. Interim and Final End Point Targets. (4 sheets)

| Geographical Area             | PBS  | Title   |
|-------------------------------|--|---|
| <b>Radioactive Tank Waste</b> |  |   |
| Central Plateau               | <b>Final End-State Targets</b>   |   |
|                               | Immobilized Tank Waste Storage   | The immobilized low-activity fraction will be disposed onsite in a 200 Area disposal system.  |
|                               | Immobilized Tank Waste Storage   | The high-level immobilized fraction will be interim stored until it can be shipped offsite for disposal (planned for the Yucca Mountain geologic repository). |
|                               | Immobilized Tank Waste Storage   | For Cs/Sr capsules declared waste, send to Yucca Mountain for HLW repository disposal.  |
|                               | Retrieval  | After the waste has been retrieved from the tanks, the tank farms - including the tanks - will be closed.   |
|                               | <b>Interim End-Point Target</b>  |   |
|                               | Process Waste  | Retrieve tank wastes to the extent needed for tank closure, divide into high-level and low-activity fractions, and immobilize.                                |
| <b>Solid Waste</b>            |  |   |
| Central Plateau               | <b>Final End-State Targets</b>   |   |
|                               | Solid Waste  | Retrievably stored TRU waste retrieved, processed, shipped offsite to WIPP.   |
|                               | Solid Waste  | Low-level and low-level mixed waste from onsite and offsite sources (including PNNL special case wastes) will continue to be disposed of in the 200 Area.     |
| <b>Spent Nuclear Fuel</b>     |  |   |
| Reactors on the River         | <b>Final End-State Target</b>  |   |
|                               | Spent Nuclear Fuel   | Spent fuel removed and K-Basins cleaned sufficient to transition to D&D.  |
| Central Plateau               | <b>Final End-State Target</b>  |   |
|                               |  | Spent fuels removed offsite for final disposition   |
|                               | <b>Interim End-Point Targets</b>   |   |
|                               | Spent Nuclear Fuel   | Spent fuels consolidated in the 200 Area in safe, stable, cost-effective storage pending national decisions on their ultimate disposition.                    |
| South 600 Area                | <b>Final End-State Targets</b>   |   |
|                               | Advanced Reactor Transitions   | Spent fuels (TRIGA and light water reactor) and applicable FFTF fuels removed from 400 Area interim storage to 200 Area.                                      |
|                               |  | Spent fuels (sodium-bonded EBR-II test assemblies) removed offsite for final disposition.   |
|                               | <b>Interim End-Point Targets</b>   |   |
| 300 Area Fuel Supply          | Spent fuels (light water reactor) removed to interim storage in 400 Area pending availability of 200 Area interim storage. |   |

Table C-1. Interim and Final End Point Targets. (4 sheets)

| Geographical Area                             | PBS   | Title  |
|---|---|--|
| <b>Facility Transition</b>                    |   |  |
| Reactors on the River                         | <b>Interim End-Point Targets</b>  |  |
|   | K-Basins  | Drain, decontaminate, and stabilize K-Basin Facility.  |
| Central Plateau                               | <b>Interim End-Point Targets</b>  |  |
|   | Accelerated Deactivation  | Transition high-cost surplus facilities to a low-cost, stable deactivated condition.   |
|   | PFP   | Provide safe, stable, interim storage for nuclear materials in the 200 Area pending decision on their ultimate disposition.  |
|   | WESF  | Continue to provide safe storage for Cs/Sr capsules in the Waste Encapsulation and Storage Facility (WESF) indefinitely. WESF decoupled and a standalone facility.     |
|   | PUREX/B-Plant   | Transition the PUREX facility and B-Plant to low-cost, stable deactivated condition.   |
|   | PFP   | Complete stabilization of plutonium to PFP (DNFSB 94-1 implementation).  |
|   | PFP   | Transition production areas of PFP to a low-cost, stable, deactivated condition; continue safe, stable, interim storage of plutonium.                                  |
| South 600 Area                                | <b>Interim End-Point Targets</b>  |  |
|   | 300 Area Revitalization   | Transition high-cost surplus facilities to a low-cost, stable deactivated condition.   |
|   | Advanced Reactor Transition (ART)   | Remove uranium through interim storage in the 400 Area.  |
|   | ART   | Transition the Fast Flux Test Facility (FFTF) to low-cost, stable deactivated condition.   |
|   | 324/327 Buildings   | Transition the 324/327 Buildings to a low-cost, stable deactivated condition and disposition their nuclear materials (including 324 Building radioactive tank wastes). |
|   | ART   | Complete deactivation of the Nuclear Energy Legacy facilities.   |
|   | ART   | Complete final disposition of remaining unirradiated uranium inventories by disposition offsite or disposal as LLW in 200 Area.  |
|   | 300 Area Fuel   | Complete transition of the 300 Area fuels supply.  |
| 300 Area Fuel                                 | Transfer Special Nuclear Material to 200 Area for interim storage.  |  |
| <b>Environmental Contaminated Groundwater</b> |   |  |
| Reactors on the River                         | <b>Final End-State Targets</b>  |  |
|   | 100 Area Source Remedial Action   | Final cleanup levels will be established within individual RODs or Permit Modifications.   |
|   | <b>Interim End-Point Targets</b>  |  |
| Groundwater Management Project                | Groundwater use remains restricted for a yet to be determined period: groundwater intercepted or contained to protect the Columbia River and the environment. |  |

Table C-1. Interim and Final End Point Targets. (4 sheets)

| Geographical Area                            | PBS                              | Title  |
|--|----------------------------------|--|
| Central Plateau                              | <b>Final End-State Targets</b>   |  |
|  | 200 Area Source Remedial Action  | Final cleanup levels will be established within individual RODs or Permit Modifications.   |
|  | <b>Interim End-Point Targets</b> |  |
|  |                                  | Groundwater use remains restricted for a yet to be determined period; groundwater intercepted or contained to within designated boundaries.            |
| South 600 Area                               | <b>Final End-State Targets</b>   |  |
|  | 300 Area Source Remedial Action  | Final cleanup levels will be established within individual RODs or Permit Modifications.   |
|  | <b>Interim End-Point Targets</b> |  |
|  |                                  | Groundwater use remains restricted for a yet to be determined period; existing site plumes will continue to be monitored.                              |
| Central Core                                 | <b>Final End-State Targets</b>   |  |
|  | Groundwater Management Project   | Groundwater use remains restricted for a yet to be determined period.  |
|  | <b>Interim End-Point Targets</b> |  |
|  | Groundwater Management Project   | Monitor existing groundwater sites plumes; intercept or contain as necessary to protect the Columbia River.  |
| <b>Environmental Contaminated Soil Sites</b> |                                  |  |
| Reactors on the River                        | <b>Final End-State Targets</b>   |  |
|  | 100 Area Source Remedial Action  | Soil sites remediated consistent with ROD cleanup standards.   |
|  | 100 Area Source Remedial Action  | Final cleanup levels will be established within individual RODs or Permit Modifications.   |
| Central Plateau                              | <b>Final End-State Targets</b>   |  |
|  | 200 Area Source Remedial Action  | Soil sites will be closed in place with surface barriers, or revedial alternatives will be established within individual RODs or Permit Modifications. |
|  | 200 Area Source Remedial Action  | Operate the ERDF to accept waste from remediation of CERCLA units across the Hanford Site.   |
| South 600 Area                               | <b>Final End-State Targets</b>   |  |
|  | 300 Area Source Remedial Action  | Soil sites remediated consistent with ROD cleanup standards. Contaminated media will be consolidated and moved to the 200 Area for disposal.           |
|  | 300 Area Source Remedial Action  | Final cleanup levels will be established within individual RODs or Permit Modifications.   |
| Central Core                                 | <b>Final End-State Targets</b>   |  |
|  | 200 Area Source Remedial Action  | Final cleanup levels will be established within individual RODs or Permit Modifications.   |

Table C-1. Interim and Final End Point Targets. (4 sheets)

| Geographical Area                                    | PBS                              | Title   |
|--|----------------------------------|---|
| <b>Decontamination and Decommissioning (D&amp;D)</b> |                                  |   |
| Reactors on the River                                | <b>Final End-State Targets</b>   |   |
|  | D&D                              | Reactor Blocks transported to Central Plateau following ~ 50 year waiting period to allow natural decay of existing radiation levels. |
|  | D&D                              | Remove non-essential, surplus buildings and facilities that don't have identified post-cleanup uses.                                  |
|  | <b>Interim End-Point Targets</b> |   |
|  | D&D                              | Reactors placed in interim safe storage pending future removal.   |
| Central Plateau                                      | <b>Final End-State Targets</b>   |   |
|  | D&D                              | Dismantle, or close through entombment, D&D facilities currently assigned to the ER Program.  |
|  | D&D                              | Remove non-essential, surplus buildings and facilities that don't have identified post cleanup uses.                                  |
| South 600 Area                                       | <b>Final End-State Targets</b>   |   |
|  | D&D                              | Reuse facilities for economic diversification where feasible.   |
|  | D&D                              | Remove non-essential, surplus buildings and facilities that don't have identified post-cleanup uses.                                  |
| Central Core   | <b>Final End-State Targets</b>   |   |
|  | D&D                              | Remove non-essential, surplus buildings and facilities that don't have identified post-cleanup uses.                                  |

D = Decision  
P = Planning Assumptions  
STR GL = Stretch Goals

**APPENDIX D**  
**SITE SUMMARY SCHEDULE**

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A copy of the Site Summary Schedule can be obtained by written request to:

U.S. Department of Energy, Richland Operations  
 P.O. Box 550  
 MSIN A5-58  
 Richland WA 99352

Additionally, copies can be viewed in the Hanford Public Information Repositories listed below:

|   |   |
|---|---|
| <p><u>Seattle</u><br/>           University of Washington<br/>           Suzzallo Library<br/>           Government Publications Room<br/>           Mail Stop FM-25<br/>           Seattle WA 98195<br/>           (206) 543-4664<br/>           Attention: Eleanor Chase</p>        | <p><u>Spokane</u><br/>           Gonzaga University<br/>           Foley Center<br/>           E. 502 Boone<br/>           Spokane WA 99258<br/>           (509) 328-4220 extension 3125<br/>           Attention: Lewis Miller</p>   |
| <p><u>Portland</u><br/>           Portland State University<br/>           Bradford Price Millar Library<br/>           SW Harrison and Park<br/>           P.O. Box 1151<br/>           Portland OR 97207<br/>           (503) 725-3690<br/>           Attention: Michael Bowman</p> | <p><u>Richland</u><br/>           Washington State University/Tri-Cities<br/>           DOE Public Reading Room<br/>           100 Sprout Road<br/>           Room 130<br/>           Richland WA 99352<br/>           (509) 376-8583<br/>           Attention: Terri Traub</p> |

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**APPENDIX F**

**BASELINE ENVIRONMENTAL MANAGEMENT  
REPORT RECONCILIATION**

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## Appendix F

|   |  | Lifecycle Costs (1996-2070) |                 |                 |                | Comments   |
|---|--|-----------------------------|-----------------|-----------------|----------------|--|
|   |  | Constant \$96               | Constant \$98   |                 |                |  |
|   |  | BEMR                        | BEMR            | TYP             | Delta          |  |
|   |  | BEMR                        | BEMR            | TYP             | Delta          |  |
| <b>TANK WASTE REMEDIATION SYSTEMS PROJECT</b> |  |                             |                 |                 |                |  |
| RL-TW01                                       | Tank Waste Characterization Project                        | \$514                       | \$542           | \$477           | -\$65          | Reduction in scope.  |
| RL-TW02                                       | Tank Safety Issue Resolution Project                       | \$181                       | \$191           | \$166           | -\$25          | Reduction in scope and overhead rates.   |
| RL-TW03                                       | Tank Farm Operations                                       | \$1,569                     | \$1,655         | \$1,119         | -\$536         | \$490M savings from control, clean and stable and re-engineering. Corrected for 2/28 PBS escalation error  |
| RL-TW04                                       | Retrieval Project  | \$1,029                     | \$1,086         | \$1,356         | \$270          | Corrected for 2/28 PBS escalation error. Corrected for 2/28 PBS escalation error   |
| RL-TW05                                       | Process Waste Support                                      | \$384                       | \$405           | \$849           | \$444          | Scope of support activities has increased. Corrected for 2/28 PBS escalation error   |
| RL-TW06                                       | Process Waste Privatization Phase I                        | \$1,371                     | \$1,446         | \$1,359         | -\$88          | 1996 privatization set aside.  |
| RL-TW07                                       | Process Waste Privatization Phase II                       | \$0                         | \$0             | \$0             | \$0            |  |
| RL-TW08                                       | Process Waste Privatization Infrastructure                 | \$0                         | \$0             | \$1,885         | \$1,885        | Infrastructure costs were not included in BEMR. Corrected for 2/28 PBS escalation error  |
| RL-TW09                                       | Immobilized Tank Waste Storage & Disposal Project          | \$4,333                     | \$4,571         | \$6,550         | \$1,979        | Storage & Disposal costs increased due to changes in projection of number of canisters and cost of canisters. Corrected for 2/28 PBS escalation error  |
| RL-TW10                                       | TWRS Management Support                                    | \$899                       | \$949           | \$209           | -\$739         | Management costs decrease to zero after 2006. Corrected for 2/28 PBS escalation error  |
|   | Subtotal - Tank Waste Remediation Systems Project          | \$10,281                    | \$10,844        | \$13,971        | \$3,127        |  |
| <b>WASTE MANAGEMENT PROJECT</b>               |  |                             |                 |                 |                |  |
| RL-WM01                                       | Spent Nuclear Fuel Project                                 | \$605                       | \$638           | \$728           | \$90           | Required systems/facilities modifications and regulatory requirements not in BEMR scope.   |
| RL-WM02                                       | Canister Storage Building Operations*                      | \$85                        | \$90            | \$122           | \$32           | Costs have increased because of continued storage beyond 2040. Costs have decreased because of omission of "other fuel" costs.                         |
| RL-WM03                                       | Solid Waste Storage and Disposal                           | \$1,329                     | \$1,402         | \$2,107         | \$706          | Cost continue at high level after 2040. Closure of the low level waste burial grounds included in TYP, but was part of EM-40 in BEMR.                  |
| RL-WM04                                       | Solid Waste Treatment                                      | \$2,201                     | \$2,322         | \$4,618         | \$2,296        | Cost continue at high level after 2040. Assumption is being examined   |
| RL-WM05                                       | Liquid Effluent  | \$1,250                     | \$1,318         | \$1,179         | -\$140         | Ten Year Plan is being updated. The update will show a cost savings due to reduced D&D costs of 340 building. Management costs have also been reduced. |
| RL-WM06                                       | Analytical Services  | \$1,360                     | \$1,434         | \$2,748         | \$1,313        | Constant \$ were escalated in BEMR.  |
|   | Subtotal - Waste Management Project                        | \$6,830                     | \$7,204         | \$11,502        | \$4,298        |  |
| <b>FACILITY TRANSITION PROJECT</b>            |  |                             |                 |                 |                |  |
| RL-TP01, 2                                    | B-Plant / WESF   | \$344                       | \$363           | \$367           | \$4            |  |
| RL-TP03                                       | PUREX  | \$81                        | \$86            | \$71            | -\$15          |  |
| RL-TP04                                       | 300 Area/SNM   | \$44                        | \$46            | \$43            | -\$4           |  |
| RL-TP05, 6, 7                                 | PPF (Excluding Pu Disposition)                             | \$1,582                     | \$1,669         | \$1,405         | -\$264         | Savings due to reduced vault management costs.   |
| RL-TP08                                       | 324/327 Facility Transition Project                        | \$63                        | \$67            | \$166           | \$99           | PMP still being developed.   |
| RL-TP09                                       | K Basin Deactivation                                       | \$0                         | \$0             | \$116           | \$116          | Deactivation work scope not included in BEMR.  |
| RL-TP10                                       | Accelerated Deactivation                                   | \$122                       | \$129           | \$142           | \$14           |  |
| RL-TP11                                       | Advanced Reactors Transition                               | \$229                       | \$241           | \$150           | -\$92          | In TYP, FFTF transfers to NE program in FY 1999.   |
| RL-TP12                                       | Transition Project Management                              | \$136                       | \$143           | \$152           | \$9            |  |
| RL-TP13                                       | Landlord   | \$355                       | \$374           | \$609           | \$234          | PBS includes budget to demolish general purpose facilities and upgrade utilities in out years.   |
| RL-TP14                                       | 300 Area Revitalization                                    | \$97                        | \$102           | \$120           | \$18           |  |
|   | Subtotal - Facility Transition Project                     | \$3,054                     | \$3,221         | \$3,341         | \$120          |  |
| <b>ENVIRONMENTAL RESTORATION PROJECT</b>      |  |                             |                 |                 |                |  |
| RL-ER01                                       | 100 Area Source Remedial Action                            | \$769                       | \$811           | \$489           | -\$321         |  |
| RL-ER02                                       | 200 Area Source Remedial Action                            | \$1,708                     | \$1,801         | \$2,088         | \$287          |  |
| RL-ER03                                       | 300 Area Source Remedial Action                            | \$187                       | \$197           | \$176           | -\$21          |  |
| RL-ER04                                       | Environmental Restoration Disposal Facility (ERDF) Project | \$554                       | \$584           | \$442           | -\$142         |  |
| RL-ER05                                       | Surveillance & Maintenance                                 | \$607                       | \$641           | \$774           | \$133          |  |
| RL-ER06                                       | Decontamination & Decommissioning                          | \$1,786                     | \$1,884         | \$2,023         | \$139          | Increase due to improved canyon D&D estimates. Corrected for 2/28 PBS escalation error   |
| RL-ER07                                       | Long Term Surveillance & Maintenance                       | \$279                       | \$294           | \$228           | -\$66          |  |
| RL-ER08                                       | Groundwater Management Project                             | \$716                       | \$755           | \$873           | \$118          |  |
| RL-ER09                                       | N Pilot Project  | \$36                        | \$38            | \$19            | -\$19          |  |
| RL-ER10                                       | ER Program Management & Support                            | \$1,969                     | \$2,077         | \$2,476         | \$400          |  |
|   | Subtotal - Environmental Restoration Project               | \$8,610                     | \$9,081         | \$9,588         | \$507          |  |
| <b>SCIENCE &amp; TECHNOLOGY PROJECT</b>       |  |                             |                 |                 |                |  |
| RL-ST01                                       | PNNL Waste Management                                      | \$1,124                     | \$1,186         | \$804           | -\$382         | Costs decreased due to early deactivation of 300 Area facilities.  |
| <b>HAMMER</b>                                 |  |                             |                 |                 |                |  |
| RL-HM01                                       | HAMMER   | \$275                       | \$290           | \$357           | \$67           |  |
| <b>OTHER</b>                                  |  |                             |                 |                 |                |  |
| RL-OT01                                       | MISSION SUPPORT  | \$1,100                     | \$1,160         | \$1,293         | \$133          |  |
| RL-OT04                                       | RL DIRECTED SUPPORT  | \$812                       | \$857           | \$357           | -\$499         |  |
| <b>REGULATORY OVERSITE</b>                    |  |                             |                 |                 |                |  |
| RL-RG01                                       | Regulatory Oversight                                       | \$0                         | \$0             | \$34            | \$34           |  |
|   | Subtotal - Other   | \$3,311                     | \$3,493         | \$2,845         | -\$648         |  |
|   | <b>SUBTOTAL - HANFORD SITE</b>                             | <b>\$32,087</b>             | <b>\$33,843</b> | <b>\$41,247</b> | <b>\$7,404</b> |  |
| <b>NATIONAL PROGRAMS</b>                      |  |                             |                 |                 |                |  |
| RL-OT05                                       | RL Site Support  | \$3,135                     | \$3,306         | \$3,524         | \$218          |  |
| RL-WM07                                       | Waste Minimization (Waste Minimization)                    | \$21                        | \$23            | \$0             | -\$23          | Not included in PBS.   |
|   | Compliance   | \$94                        | \$99            | \$0             | -\$99          | Not included in PBS.   |
|   | Subtotal - National Programs                               | \$3,250                     | \$3,427         | \$3,524         | \$97           |  |
|   | <b>TOTAL - HANFORD</b>                                     | <b>\$35,337</b>             | <b>\$37,270</b> | <b>\$44,771</b> | <b>\$7,501</b> |  |
| <b>BEMR SCOPE EXCLUDED IN TEN YEAR PLAN</b>   |  |                             |                 |                 |                |  |
|   | TW RS Phase I Privatization (Process Waste Support)        | \$2,188                     | \$2,307         | \$2,307         | \$0            | These costs were excluded in Draft PBS.  |
|   | TW RS Phase II Privatization (Process Waste Support)       | \$11,754                    | \$12,397        | \$12,397        | \$0            | These costs were excluded in Draft PBS.  |
|   | Plutonium Disposition (PPF)                                | \$589                       | \$621           | \$621           | \$0            | These costs were excluded in draft, will be included in final.   |
|   | Spent Nuclear Fuel and Special Class Waste Disposal Fees   | \$350                       | \$369           | \$369           | \$0            | These costs were excluded in Draft PBS.  |
|   | <b>EXCLUDED SCOPE</b>                                      | <b>\$14,880</b>             | <b>\$15,694</b> | <b>\$15,694</b> | <b>\$0</b>     |  |

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**APPENDIX G**  
**FISCAL YEAR 1997 AND 1998 FUNDING CROSSWALK**

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**LINKING THE PROJECT  
AND PROGRAM STRUCTURES FOR FY 1997 or FY 1998**

Project Title: **Groundwater Management**

Unique Site-Designated Project ID: **RELK08**

**FY 1997 Appropriation**

**Defense Environmental Management**

|                                | Waste Management | Environmental Restoration | Technology Development | Nuclear Materials | Site Operations | Privatization | Total        |
|--------------------------------|------------------|---------------------------|------------------------|-------------------|-----------------|---------------|--------------|
| Operating Expenses             | 1,953            |                           |                        |                   |                 |               | 1,953        |
| Capital Equipment Construction |                  |                           |                        |                   |                 |               | 0            |
| General Plant Projects         |                  |                           |                        |                   |                 |               | 0            |
| <b>Total</b>                   | <b>1,953</b>     | <b>0</b>                  | <b>0</b>               | <b>0</b>          | <b>0</b>        | <b>0</b>      | <b>1,953</b> |

**Energy Supply, Research and Development**

|                                |          |          |          |          |          |          |          |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Operating Expenses             |          |          |          |          |          |          | 0        |
| Capital Equipment Construction |          |          |          |          |          |          | 0        |
| General Plant Projects         |          |          |          |          |          |          | 0        |
| <b>Total</b>                   | <b>0</b> |

**Uranium Enrichment Decontamination and Decommissioning Fund**

|                                |          |          |          |          |          |          |          |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Operating Expenses             |          |          |          |          |          |          | 0        |
| Capital Equipment Construction |          |          |          |          |          |          | 0        |
| General Plant Projects         |          |          |          |          |          |          | 0        |
| <b>Total</b>                   | <b>0</b> |

**Total - All Appropriations**

|                                |              |          |          |          |          |          |              |
|--------------------------------|--------------|----------|----------|----------|----------|----------|--------------|
| Operating Expenses             | 1,953        | 0        | 0        | 0        | 0        | 0        | 1,953        |
| Capital Equipment Construction | 0            | 0        | 0        | 0        | 0        | 0        | 0            |
| General Plant Projects         | 0            | 0        | 0        | 0        | 0        | 0        | 0            |
| <b>FY 1997 Grand Total</b>     | <b>1,953</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>1,953</b> |

**LINKING THE PROJECT  
AND PROGRAM STRUCTURES FOR FY 1997 or FY 1998**

**FY 1998 Appropriation**

**Defense Environmental Management**

|                        | Waste Management | Environmental Restoration | Technology Development | Nuclear Materials | Site Operations | Privatization | Total |
|------------------------|------------------|---------------------------|------------------------|-------------------|-----------------|---------------|-------|
| Operating Expenses     |                  |                           |                        |                   |                 |               | 0     |
| Capital Equipment      |                  |                           |                        |                   |                 |               | 0     |
| Construction           |                  |                           |                        |                   |                 |               | 0     |
| General Plant Projects |                  |                           |                        |                   |                 |               | 0     |
| <b>Total</b>           | 0                | 0                         | 0                      | 0                 | 0               | 0             | 0     |

**Energy Supply, Research and Development**

|                        |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|
| Operating Expenses     |   |   |   |   |   |   | 0 |
| Capital Equipment      |   |   |   |   |   |   | 0 |
| Construction           |   |   |   |   |   |   | 0 |
| General Plant Projects |   |   |   |   |   |   | 0 |
| <b>Total</b>           | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Uranium Enrichment Decontamination and Decommissioning Fund**

|                        |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|
| Operating Expenses     |   |   |   |   |   |   | 0 |
| Capital Equipment      |   |   |   |   |   |   | 0 |
| Construction           |   |   |   |   |   |   | 0 |
| General Plant Projects |   |   |   |   |   |   | 0 |
| <b>Total</b>           | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Total - All Appropriations**

|                            |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|
| Operating Expenses         | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capital Equipment          | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction               | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| General Plant Projects     | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>FY 1998 Grand Total</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**LINKING THE PROJECT  
AND PROGRAM STRUCTURES FOR FY 1997 or FY 1998**

Project Title: Mission Support

Unique Site-Designated Project ID: REL-CFR1

**FY 1997 Appropriation**

Defense Environmental Management

|                                | Waste Management | Environmental Restoration | Technology Development | Nuclear Materials | Site Operations | Privatization | Total        |
|--------------------------------|------------------|---------------------------|------------------------|-------------------|-----------------|---------------|--------------|
| Operating Expenses             | 4,181            |                           |                        |                   |                 |               | 4,181        |
| Capital Equipment Construction |                  |                           |                        |                   |                 |               | 0            |
| General Plant Projects         |                  |                           |                        |                   |                 |               | 0            |
| <b>Total</b>                   | <b>4,181</b>     | <b>0</b>                  | <b>0</b>               | <b>0</b>          | <b>0</b>        | <b>0</b>      | <b>4,181</b> |

Energy Supply, Research and Development

|                                |          |          |          |          |          |          |          |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Operating Expenses             |          |          |          |          |          |          | 0        |
| Capital Equipment Construction |          |          |          |          |          |          | 0        |
| General Plant Projects         |          |          |          |          |          |          | 0        |
| <b>Total</b>                   | <b>0</b> |

Uranium Enrichment Decontamination and Decommissioning Fund

|                                |          |          |          |          |          |          |          |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Operating Expenses             |          |          |          |          |          |          | 0        |
| Capital Equipment Construction |          |          |          |          |          |          | 0        |
| General Plant Projects         |          |          |          |          |          |          | 0        |
| <b>Total</b>                   | <b>0</b> |

**Total - All Appropriations**

|                                |              |          |          |          |          |          |              |
|--------------------------------|--------------|----------|----------|----------|----------|----------|--------------|
| Operating Expenses             | 4,181        | 0        | 0        | 0        | 0        | 0        | 4,181        |
| Capital Equipment Construction | 0            | 0        | 0        | 0        | 0        | 0        | 0            |
| General Plant Projects         | 0            | 0        | 0        | 0        | 0        | 0        | 0            |
| <b>FY 1997 Grand Total</b>     | <b>4,181</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>4,181</b> |

**FY 1998 Appropriation**

**LINKING THE PROJECT  
AND PROGRAM STRUCTURES FOR FY 1997 or FY 1998**

|                        | Waste Management | Environmental Restoration | Technology Development | Nuclear Materials | Site Operations | Privatization | Total |
|------------------------|------------------|---------------------------|------------------------|-------------------|-----------------|---------------|-------|
| Operating Expenses     | 3,926            |                           |                        |                   |                 |               | 3,926 |
| Capital Equipment      |                  |                           |                        |                   |                 |               | 0     |
| Construction           |                  |                           |                        |                   |                 |               | 0     |
| General Plant Projects |                  |                           |                        |                   |                 |               | 0     |
| <b>Total</b>           | 3,926            | 0                         | 0                      | 0                 | 0               | 0             | 3,926 |

**Defense Environmental Management**

Operating Expenses  
Capital Equipment  
Construction  
General Plant Projects

**Energy Supply, Research and Development**

|                        |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|
| Operating Expenses     |   |   |   |   |   |   | 0 |
| Capital Equipment      |   |   |   |   |   |   | 0 |
| Construction           |   |   |   |   |   |   | 0 |
| General Plant Projects |   |   |   |   |   |   | 0 |
| <b>Total</b>           | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Uranium Enrichment, Decontamination and Decommissioning Fund**

|                        |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|
| Operating Expenses     |   |   |   |   |   |   | 0 |
| Capital Equipment      |   |   |   |   |   |   | 0 |
| Construction           |   |   |   |   |   |   | 0 |
| General Plant Projects |   |   |   |   |   |   | 0 |
| <b>Total</b>           | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Total - All Appropriations**

|                            |       |   |   |   |   |   |       |
|----------------------------|-------|---|---|---|---|---|-------|
| Operating Expenses         | 3,926 | 0 | 0 | 0 | 0 | 0 | 3,926 |
| Capital Equipment          | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
| Construction               | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
| General Plant Projects     | 0     | 0 | 0 | 0 | 0 | 0 | 0     |
| <b>FY 1998 Grand Total</b> | 3,926 | 0 | 0 | 0 | 0 | 0 | 3,926 |

**APPENDIX H**  
**TECHNOLOGY ACTIVITIES**

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Table H-1. Key Technological Activities for Potential Breakthroughs  
In Complex Cleanup - Funded Demonstrations.

| Need   | Technology activity  | Return on investment  |
|--|--|---|
| Tank Closure Demo for an Arid Site               | <p><i>Hanford Tanks Initiative (Demonstrations)</i></p> <ul style="list-style-type: none"> <li>- Gamma probe deployed on the light duty utility arm (LDUA)</li> <li>- High-resolution-stereo video camera</li> <li>- Air conveyance system for retrieval</li> <li>- Manipulator-based waste deployment system</li> <li>- Mechanical waste dislodging system</li> <li>- Vehicle-based waste deployment system</li> <li>- Waste probing device deployed from LDUA</li> <li>- Waterjet waste dislodging system</li> </ul> | <p>High</p> <p>High</p> <p>High</p> <p>High</p> <p>High</p> <p>High</p> <p>High</p> <p>High</p> |
| Decontamination Technologies                     | <p><i>C-Reactor Interim Safe Storage Demo:</i></p> <ul style="list-style-type: none"> <li>- Structural Steel Decontamination</li> </ul>  | <p>High</p>   |
| Characterization Technologies                    | <ul style="list-style-type: none"> <li>- Waste Sorting/ Segregation</li> </ul>   | <p>High</p>   |
| In Situ Remediation of Cr in Groundwater         | <ul style="list-style-type: none"> <li>- In Situ Redox Manipulation</li> </ul>   | <p>High</p>   |
| Interstitial Low-Level Waste Volume Minimization | <ul style="list-style-type: none"> <li>- Clean Salt</li> </ul>   | <p>Medium</p>   |
| Interstitial High-Level Waste Volume Reduction   | <ul style="list-style-type: none"> <li>- Sludge Washing</li> </ul>   | <p>Medium</p>   |
| Cutting Technologies                             | <ul style="list-style-type: none"> <li>- Remote Laser Cutting</li> </ul>   | <p>High</p>   |

Table H-2. Key Technologies Included in the Baseline.

| Need  | Technology activity   | Return on investment |
|---|---|----------------------|
| Tank Waste Mobilization Methods                         | <i>Hanford Tanks Initiative (Deployments):</i><br>- Jet pump waste conveyance system<br>- Mechanical pump waste conveyance system | High<br>High         |
| Characterization Technologies                           | - Cone penetrometer system for vadose zone characterization   | High                 |
| Volume Reduction and Treatment of Mixed Low-Level Waste | - Macroencapsulation of Mixed Low-Level Waste   | Low                  |
| Decontamination Technologies, Waste Minimization        | - Co <sub>2</sub> Pellet Decontamination  | High                 |

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**APPENDIX I**

**KEY ISSUES**

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## High Priority (Internal) Technical Issues. (2 sheets)

| Issue  | Required Decision  | Interim Decision (Planning Basis)  |
|--|--|--|
| <u>K-Basin Sludge Disposal:</u> Characterization and disposition criteria for K-Basin sludge have not been established.  | What are the requirements and disposition criteria for K-Basin sludge?   | K-Basin sludge will be retrieved and transferred to double - shell tanks. A memorandum of understanding between the Spent Nuclear Fuel and Tank Waste Remediation System projects to evaluate the feasibility of this plan has been signed by DOE.   |
| <u>325 and 204-AR Upgrades:</u> Liquid waste collection and loading facility (340 facility) is scheduled for shutdown after FY 1998. Initially, nothing will be done to preclude accepting waste at the 340 facility after this date. Transfer systems from Building 325 to the tank farms via 204-AR facility will not be available per the current schedule. | Will 340 facility shutdown remain on schedule?<br><br>Will Building 325 and 204-AR upgrades be completed before 340 facility shutdown?       | 340 facility shutdown will remain on schedule.<br><br>Building 325 and 204-AR upgrades will be completed to support 340 shutdown.  |
| <u>Low Level Tank Waste Disposal Criteria:</u> The disposal criteria for low level waste (LLW) from tanks is not consistent with that of LLW from other sources (i.e. sanitary water and environmental restoration).   | What are the disposal acceptance criteria for LLW from tanks?<br><br>Form?<br>Quantity?<br>Packaging?<br>Retrievability?<br>Disposal System? | LLW from tanks will be disposed of per product specification in the privatization request for proposal.<br><br>In addition, barriers and waste concentration determine LLW acceptability for disposal.   |
| <u>Endstate for Canyon Facilities:</u> The endstate for the canyon facilities has not been clearly defined.  | What is the endstate for the canyon facilities?  | Canyon facilities will be partially demolished with material disposed onsite.<br><br>Action plan underway.   |
| <u>Land Use Plan 100:</u> The interim endstate for the 100 Areas has not been defined.   | What is the desired interim endstate for the 100 Area?   | Soil sites remediated consistent with Record of Decision (ROD) cleanup standards. DOE will retain control of this land throughout the cleanup mission and will protect archaeological, cultural, and environmental resources.<br><br>Environmental Impact Statement (EIS) underway.  |
| <u>Land Use Plan 200:</u> The interim endstate for the 200 Areas has not been defined.   | What is the desired interim endstate for the 200 Area?   | The 200 Area and central plateau will be used for the management of nuclear materials and the collection and disposal of waste materials that remain on site and for other related and compatible uses. Cleanup levels and disposal standards will be established in the <i>Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA)</i> and <i>Resource conservation and Recovery Act of 1976 (RCRA)</i> permit modifications.<br><br>EIS underway. |

High Priority (Internal) Technical Issues. (2 sheets)

| Issue   | Required Decision   | Interim Decision (Planning Basis)  |
|---|---|--|
| <p><u>Land Use Plan 300</u>: The interim endstate for the 300 Areas has not been defined.</p> | <p>What is the desired interim endstate for the 300 Area?</p> | <p>The 300 Area waste sites, materials, and facilities will be remediated to allow industrial and economic transition opportunities. The Federal government will retain ownership of land in and adjacent to the 300 and 400 Areas, but will lease land for private and public uses to support regional industrial and economic development. Excess land within the 1100 and 3000 areas will be targeted for transition to non-Federal ownership.</p> <p>EIS underway.</p> |

**OTHER SCHEDULE INTERFACE ISSUES/QUESTIONS  
FROM SITE SUMMARY SCHEDULE**

- Storage Pathway for Remaining B-Cell Debris Waste.
- Na Bonded Fuel to Idaho International Engineering Laboratory (INEL)
  - Shipment to INEL Restricted until fiscal year 2001
- Pathway for Handling Remote Handled Transuranic Waste
  - T-Plant
  - New Facility.

**DOE-HEADQUARTERS STAKEHOLDER ISSUE LIST - STATUS**

"As Part of TWRS Projects, the RL Ten Year Plan should identify an expedited Performance Assessment project...to more accurately assess environmental and public health impacts"

- No action plan required
- Addressed in this plan.

"Endstate of Canyon Facilities (e.g., PUREX and B-Plant)"

- Action Plan under way
- Baseline assumes partial demolition with remainder entombed
- Alternative would be co-disposal of wastes in conjunction with entombment.

"Shipment of Plutonium to Savannah River"

- Addressed in National Issue 1 Action Plan 03/08/97
- No further action required.

**APPENDIX J**  
**NEPA STRATEGY**

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### ***National Environmental Policy Act of 1969 (NEPA) Strategy***

The Ten-Year Plan goals are outlined below by major project showing the existing or planned NEPA documentation. Environmental Restoration activities are normally covered by *Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA)* documentation, which include NEPA values such as cumulative effects.

#### **Environmental Restoration Project**

- Complete remediation of waste sites.  
CERCLA documentation.
- Removal and disposal of solid waste.  
CERCLA documentation.
- Treatment of contaminated groundwater.  
CERCLA documentation.
- Treatment of contaminated soil vapor.  
CERCLA documentation.
- Complete decontamination and decommissioning of facilities.  
CERCLA documentation.
- Complete interim safe storage of C Reactor.  
DOE/EIS-0119 Decommissioning of Eight Production Surplus Production Reactors at the Hanford site, Record of Decision September 1993; and CERCLA documentation.

#### **Tank Waste Remediation System (TWRS) Project**

TWRS objectives entail continued safe operation of tanks, including the actions listed below to reduce risk to the employees, public, and environment, and reduce long-term mortgage costs. Unless otherwise indicated, all TWRS activities were analyzed in DOE/EIS-0189 TWRS Environmental Impact Statement (EIS), Record of Decision February 1997. Future decisions such as siting, constructing, and operating storage facilities and waste vitrification facilities will be evaluated to assess whether their impacts have been adequately considered in DOE/EIS-0189. When needed, future Environmental Assessments or EIS would tier from DOE/EIS-0189.

- Remove free liquids from single-shell tanks.  
DOE/EIS-0189 and DOE/EIS-0113 EIS on Disposal of Hanford Defense High-Level, Transuranic and Tank Wastes, Record of Decision April 1988.

- Utilize new double-contained waste transfer line from 200 East to 200 West tank farms.  
DOE/EIS-0189 and DOE/EIS-0212 EIS on Safe Interim Storage of Hanford Tank Wastes, Record of Decision November 1995.

### **Waste Management Project**

- Remove spent nuclear fuel, sludge, and debris from the K-Basins. Treat the water and transition the basins to Facility Stabilization for deactivation.  
DOE/EIS-0245 EIS on Management of Spent Nuclear Fuel from the K Basins at the Hanford Site, Record of Decision March 1996; CERCLA documentation, and possible future tiered NEPA documentation.
- Run 242-A Evaporator campaigns to support TWRS activities.  
DOE/EIS-0113 EIS on Disposal of Hanford Defense High-Level, Transuranic and Tank Wastes, Record of Decision April 1988.
- Treat and dispose liquid effluents from Environmental Restoration Disposal Facility leachate, 242-A Evaporator process effluent, UP-1 groundwater, and K-Basin liquids.  
DOE /EA-0383 Environmental Assessment on Hanford Environmental Compliance Project, Finding of No Significant Impact approved March 1992.
- Operate 300 Area Treated Effluent Disposal Facility.  
DOE/EA-383 Environmental Assessment on Hanford Environmental Compliance Project, Finding of No Significant Impact approved March 1992; and DOE/EA-0980 Environmental Assessment on 300 Area Process Sewer Piping Upgrade and 300 Area Treated Effluent Disposal Facility Discharge to the City of Richland Sewage System, Finding of No Significant Impact approved May 1995.
- Provide minimal safe operation activities for pressurized water reactor fuel storage and critical site decontamination needs.  
DOE/EA-1185 Environmental Assessment on Management of Hanford Site Non-Defense Production Reactor Spent Nuclear Fuel, Finding of No Significant Impact approved March 1997.
- Upgrade T Plant tanks to comply with Tri-Party Agreement (TPA) M-32-03.  
NEPA Categorical Exclusion.
- Store and dispose of onsite and offsite waste.  
DOE/EIS-0113 EIS on Disposal of Hanford Defense High-Level, Transuranic and Tank Wastes, Record of Decision April 1988; and proposed EIS on Hanford Solid Waste Management, Record of Decision forecast 1998.

- Non-thermal treatment of radioactive mixed waste to comply with TPA M-19-00. Proposed EIS on Hanford Solid Waste Management, Record of Decision forecast 1998; DOE/EA-1189 Environmental Assessment of Solid Low-Level Mixed Waste Non-Thermal Treatment, in preparation.
- Continue processing of waste in Waste Receiving and Processing Facility Module I (WRAP I).  
DOE/EIS-0113 EIS on Disposal of Hanford Defense High-Level, Transuranic and Tank Wastes, Record of Decision April 1988; and DOE/EIS-0113-FS/SA2 Supplement Analysis of the Environmental Effects of Changes in DOE's Proposed Action to Construct and Operate the Waste Receiving and Processing Facility Module I, November 1992.
- Initiate actions for transuranic waste Phase I retrieval.  
DOE/EIS-0113 EIS on Disposal of Hanford Defense High-Level, Transuranic and Tank Wastes, Record of Decision April 1988; and DOE/EA-0981 Environmental Assessment on Solid Waste Retrieval Complex - Phase I and Enhanced Radioactive and Mixed Waste Storage Facility, Infrastructure Upgrades, and Central Waste Support Complex - Phase V, Finding of No Significant Impact approved September 1995.
- Provide sitewide waste packaging, designation, acceptance, and transportation services.  
NEPA Categorical Exclusion, and existing Environmental Assessments and Environmental Impact Statements.
- Thermal treatment of radioactive mixed waste.  
Proposed EIS on Hanford Solid Waste Management, Record of Decision forecast 1998; DOE/EA-1135 Environmental Assessment on Treatment of Low-Level Mixed Waste at an Offsite Thermal Treatment Facility (in preparation).
- Operate 222-S in support of tank waste characterization and other critical site activities.  
DOE/EIS-0113 EIS on Disposal of Hanford Defense High-Level, Transuranic and Tank Wastes, Record of Decision April 1988.
- Operate Waste Sampling and Characterization Facility in support of environmental samples.  
DOE/EA-0383 Environmental Assessment on Hanford Environmental Compliance Project, Finding of No Significant Impact approved March 1992.

- Upgrade 219-S tank system to meet TPA M-32-02 requirements.  
DOE/EA-0944 Environmental Assessment on 222-S Radioactive Liquid Waste Line, Finding of No Significant Impact Approved January 1995.
- Resume efforts to consolidate Hanford Site laboratories.  
NEPA Categorical Exclusions.
- Resume 222-S life extension upgrades and increase funding to replace capital equipment.  
NEPA Categorical Exclusions.

### **Facility Stabilization Project**

- Complete Project W-059, "Safety Ventilation Upgrades," to provide isolation of the 291-B retired filters and install a new B Plant canyon ventilation system to support long-term surveillance and maintenance activities.  
NEPA Categorical Exclusion.
- Accelerate by four years the plan to decouple B Plant from the Waste Encapsulation and Storage Facility (WESF) and fully deactivate B Plant.  
Future NEPA Categorical Exclusion.
- Complete liquid plutonium solution stabilization and initiate metal stabilization at Plutonium Finishing Plant.  
DOE/EIS-0244 Plutonium Finishing Plant Stabilization, Record of Decision July 1996.
- Complete identified interim actions at Plutonium Finishing Plant in compliance with TPA milestone M-83-02.  
DOE/EA-0978 Environmental Assessment on Sludge Stabilization at the Plutonium Finishing Plant, Finding of No Significant Impact approved October 1994;  
DOE/EA-1112 Environmental Assessment on Sludge and Solid Residue Stabilization at the Plutonium Finishing Plant, Finding of No Significant Impact approved November 1995.
- Complete cementation/discard of bulk plutonium residue.  
DOE/EIS-0244 EIS on Plutonium Finishing Plant Stabilization, Record of Decision July 1996.
- Continue safe and secure plutonium vault operations and support of International Atomic Energy Agency activities.  
DOE/EIS-0244 EIS on Plutonium Finishing Plant Stabilization, Record of Decision July 1996.

- Continue *Resource Conservation and Recovery Act of 1976* (RCRA) Closure Field Activities at 300 Area Fuel Supply.  
RCRA documentation, NEPA Categorical Exclusions.
- Continue progress on 324 Facility B Cell clean out to mitigate the fourth most urgent risk at the Hanford Site.  
DOE/EA-1211 Environmental Assessment for the Relocation and Storage of Sealed Isotopic Heat Sources, in preparation.
- Continue 309 Building/Plutonium Recycle Test Reactor deactivation.  
NEPA Categorical Exclusion.
- Continue deactivation of Nuclear Energy Legacy facilities.  
NEPA Categorical Exclusion or future Environmental Assessment.
- Continued stabilization activities at Plutonium Finishing Plant supporting Defense Nuclear Facility Safety Board (DNFSB) 94-1 commitment.  
DOE/EIS-0244 EIS on Plutonium Finishing Plant Stabilization, Record of Decision July 1996.
- Initiate 300 Area fuel supply deactivation and isolation of 313-S Building.  
Future NEPA Categorical Exclusion or Environmental Assessment.
- Complete Cesium Chloride Legacy Safety Program and 327 Legacy Fuel Removal.  
DOE/EA-0942 Environmental Assessment on Return of Isotope Capsules to the Waste Encapsulation and Storage Facility, Finding of No Significant Impact approved May 1994.
- Resume deactivation planning of 324/327 Buildings.  
NEPA Categorical Exclusion.
- Initiate planning for deactivation transition of K-Basins in fiscal year 2002.  
DOE/EIS-0245 EIS on Management of Spent Nuclear Fuel from the K Basins at the Hanford Site, Record of Decision March 1996, and future NEPA Categorical Exclusion.
- Remove sealed (vitrified) isotopic heat sources from the 324 Facility hot cells.  
DOE/EA-1211 Environmental Assessment for the Relocation and Storage of Sealed Isotopic Heat Sources, in preparation.

- Remove legacy remote-handled transuranic waste storage containers from the 327 Facility hot cells.  
DOE/EA-1185 Environmental Assessment on Management of Hanford Site Non-Defense Production Reactor Spent Nuclear Fuel, Finding of No Significant Impact Approved March 1997; and proposed EIS on Hanford Solid Waste Management, Record of Decision forecast 1998. It is noted that DOE/EA-1185 addresses only a very small portion of the subject remote-handled transuranic waste, which may be reclassified as spent nuclear fuel.