

Project Baseline Summary Report

Data Source: **EM CDB**
Operations/Field Office: **Richland**
Site Summary Level: **Hanford Site**
Project **RL-OT01 / MISSION SUPPORT**

Report Number: **GEN-01b**
Print Date: **3/9/2000**
HQ ID: **0426**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

The Mission Support Project is comprised of four unique subprojects that support crosscutting 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 2046. The following four subprojects conduct activities under the Mission Support Project:

- A) Site Planning & Integration
- B) Site Systems Engineering
- C) Environmental Compliance
- D) Pacific Northwest National Laboratory Public Safety and Resource Protection

A) SITE PLANNING & INTEGRATION

Purpose

The Site Planning and Integration subproject 1) provides integrated analyses, assessments, and evaluations to ensure effective Hanford Management decision-making and 2) provides integrated management policy (e.g. Hanford Management Plan), processes (e.g. baseline management, performance measurement and reporting), and products (e.g. Hanford Strategic Plan, Paths to Closure, PBSs, Integrated Site Baseline (technical, schedule, and cost)).

Scope

Strategic Planning assists RL in the preparation and implementation of the Hanford strategic planning process; and provides site coordination/analysis in the preparation of the Paths to Closure, Hanford Strategic Plan, Hanford Balanced Scorecard, EM Integration, Site Issues Management & Analysis, and "breakthrough analysis."

Provide and use management systems to create a site level system that balances technical, schedule and cost performance to achieve the Hanford Site Mission.

Maintain and use technical integration functions to provide the basis for an Integrated Site Baseline (technical, schedule, cost). Verify an accurate Integrated Site Baseline with commensurate quality and issues identified by an Issues Management System.

Baseline management drives the site level guidance for life cycle Multi Year Work Plans (MYWPs) for Hanford Projects; updates the Integrated Site Baseline (ISB) including the EM Site Specification, Site Summary Schedule, Site Master Baseline Schedule (SMBS) and life cycle cost; analysis of the code of account & benchmarking; coordinates Baseline PBS updates including performance metrics and initiates the Risk Management Plan, risk communication and risk integration.

Change Control team facilitates the change control process for the Hanford Site, maintains the procedures, administers the electronic system, conducts

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site-wide integration analysis, reports progress of baseline changes and provides update training to align to changes in the change control process.

Assessments of integrated performance measures ensures measuring the right elements at the right level to demonstrate progress against baseline and performance objectives. Site Planning and Integration is the lead in performance objectives & metrics guidance, development, oversight, validation and alignment for the Work Plans, Budget submission and EM Management Commitments.

Reporting provides contractor management, stakeholders, regulators, RL and DOE-HQ with integrated site reporting of performance against the established technical, schedule, and cost baseline.

Budget Formulation integrates, coordinates and submits the Unified Field Budget Call (UNICALL), OMB A-11 Part "B"; Hanford's Environmental Management (EM) annual budget submittal through Program Baseline Summaries (PBSs) and related crosscuts; and the Integrated Priority List (IPL), with stakeholder interface related to the budget formulation process.

Data Systems establishes and maintains Hanford's Integrated Planning & Reporting System (IPARS) required to accomplish site integration functions. IPARS includes coordination and support of the following system modules: milestone tracking and reporting (CMM), site Integrated Priority List (IPL), Multi-Year Work Plan (MYWP), Baseline Change Control (BCC), DOE-HQ Project Baseline Summary (PBS), quarterly and monthly reporting DOE-HQ Progress Tracking System (PTS)/IPABS transition module and the financial forecast. Additional Data System operations and maintenance includes the Work Breakdown Structure (WBS) and the PHMC wide scheduling system.

Technical Narrative

Site Planning & Integration plans, analyzes, and integrates from a site perspective using the major tools provided through strategic planning, 1 baseline coordination, change control, assessments, reporting, budget formulation, and data systems.

B) SITE SYSTEMS ENGINEERING

Purpose

Site Systems Engineering provides and uses Systems Engineering Management System Solutions; develops, maintains, and uses Systems Engineering Technical products; and provides Systems Engineering Infrastructure. This work is described in the Hanford Site Systems Engineering Management Plan (SEMP) and is implemented through Flour Daniel Hanford (FDH) Project Integration and through the PHMC Projects.

Scope

Provide and use Systems Engineering methodologies and techniques to define technical requirements and engineered solutions for projectizing work scope. Manage the Configuration Management Functional Area and provide related document maintenance and updates. The primary activities include:

- Define, design and implement a Configuration Management System.
- Manage the Project Hanford Project Level Technical Issues.
- Manage the Project Hanford Project Integration Process

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Develop, maintain and use the Hanford Site Technical Products to provide the basis for an Integrated (technical scope, safety basis, cost, and schedule) Site Baseline. Implement and verify an accurate Integrated Site Baseline with commensurate quality with inconsistencies, omissions, and errors identified and critical issues identified and tracked by the Technical Issues Management List process. The primary activities include:

- Define the problem
- Analyze the requirements
- Analyze the functions to satisfy the requirements
- Analyze the architecture to perform the functions
- Provide Value Engineering Services to the Site participants
- Analyze functional and physical interfaces
- Maintain the Hanford Site Technical Database (HSTD) at > 99% accuracy.
- Forecast waste and material retrieval, treatment, storage, and disposition
- Forecast infrastructure needs
- Verify the requirements are being satisfied
- Produce technical documents and reports.

Provide the Systems Engineering Infrastructure that defines the Site processes and tools to ensure standard implementation across multiple projects. The primary activities include:

- Provide staff training
- Provide systems engineering tools
- Coordinate specialty engineering
- Coordinate re-engineering
- Support the DOE Life Cycle Asset Management Order Implementation Team
- Manage the Site Systems Engineering efforts

The work performed under this subproject indirectly supports DNFSB and regulatory compliance through implementation of appropriate system 1 controls, processes, and directions. This subproject provides for Systems Engineering Management Products, Technical Products, and Infrastructure.

Technical Narrative

Site Systems Engineering utilizes current project and information management technologies to provide and use Systems Engineering Management Products; develop, maintain, and use Systems Engineering Technical Products; and provide Systems Engineering Infrastructure.

C) ENVIRONMENTAL COMPLIANCE

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The Environmental Compliance subproject consists of two primary areas of workscope, the Hanford Environmental Management Program (HEMP) and Effluent and Environmental Monitoring (EEM) Program. The purpose of HEMP is to ensure facilities/projects achieve compliance with environmental requirements and agreements and to provide RL with a mechanism to coordinate specific environmental activities between its contractors. The contractor coordinates and integrates the activities of Hanford Site contractors as directed by RL and are subject to cooperation by the other contractors for sitewide environmental compliance reports and permits. The contractor provides a focal point for regulator data needs and issues. EEM provides legally and regulatory required air and liquid effluent and near facility environmental monitoring on the Hanford Site. The program provides the near field monitoring and reporting of ambient air, surface radiation, air emissions, and liquid effluents.

Scope

The Environmental Compliance HEMP develops and implements strategies that support the Project Hanford Management Contractor (PHMC) and RL compliance with specific environmental requirements and agreements that crosscut missions and/or programs by supporting RL in achieving compliance with applicable environmental requirements and agreements.

- coordinate development of consistent NEPA documentation across programs and maintain a record of all NEPA/SEPA documentation for the Hanford Site.
- provide coordination and facilitation of onsite inspections by regulatory agencies; provide a focal point for resolution of potential environmental noncompliance that crosscut Hanford Site Programs.
- ensure submittal of mandatory State and Federal environmental compliance reports that crosscut missions and/or programs.
- develop and negotiate RCRA, and Air and Water permit applications that crosscut Hanford Site programs; coordinate program-specific activities to the degree necessary to accomplish this crosscutting function and to meet crosscutting permit requirements.
- coordinate and integrate all aspects of the Tri-Party Agreement to ensure compliance; facilitate all Tri-Party Agreement negotiations, and provide global visibility of Tri-Party Agreement milestone and schedule status.
- support coordination and resolution of regulator data access needs and issues that crosscut contractor, program and TSD units.
- develop, implement and improve environmental management systems (e.g. Integrated Safety Management System and Chemical Management System).

The Environmental Compliance EEM Program includes the following activities:

- Program Management
- minimum safe Effluent and Environmental Monitoring
- minimum safe National Emission Standards for Hazardous Air Pollutants (NESHAP) Compliance Support for Hanford's site-wide NESHAP
- Federal Facility Compliance Agreement (FFCA)
- minimum safe Near Facility Surveillance Health Physics Technicians (HPT) Support
- EEM is critical to the safety and health of the entire Hanford on-site work force and the public living and working in the surrounding off-site communities.

Technical Narrative

The Environmental Compliance Effluent and Environmental Monitoring Program monitors the environment immediately around the Hanford facilities which may contain radioactive and hazardous constituents. Monitoring data are collected, evaluated, and reported to the DOE, EPA, the State of Washington, the Tribes, the public and other "regulators" in compliance with applicable federal and state regulations and permits. In the area of

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NESHAP compliance on Hanford site, this project work scope ensures compliant exhaust stack sampling Hanford site-wide; upgrades to stack sampling systems as required to meet the NESHAP FFCA; and ongoing legally required evaluations and reevaluations of facility stacks for possible diffuse and fugitive emissions.

D) PACIFIC NORTHWEST NATIONAL LABORATORY (PNNL) PUBLIC SAFETY AND RESOURCE PROTECTION PROGRAM(PSRP)

Purpose

The purpose of the PNNL Public Safety & Resource Protection Program is to monitor the Hanford environment to protect public safety and Hanford ecological and cultural resources. This includes providing real-time, localized weather information for routine safety operations and emergency response, performing sitewide and off-site environmental monitoring, as well as determining radiological exposures to the public and the environment.

Scope

PNNL Public Safety & Resource Protection Program - The work scope performed by the PNNL Public Safety & Resource Protection Program includes the following:

- provides environmental surveillance and assessment of on-site and off-site environmental impacts and off-site human health exposures from Hanford operations. (Certain facility environmental data are collected by other programs but are provided to this program to develop site-wide assessments.)
- conducts on-site surveillance to evaluate effectiveness of Hanford Site effluent controls;
- monitors meteorological and climatological conditions on site to support other site programs and emergency response needs;
- identifies and evaluates impacts of Hanford activities (and natural processes where required) to cultural and sensitive ecological resources at Hanford to facilitate cost effective regulatory compliance;
- coordinates and provides required site-wide historic building documentation prior to demolition;
- identifies and develops data, models, and programs needed for timely and responsive action on present and future Hanford environmental issues.

Technical Narrative

This program collects samples of environmental media to determine concentrations of radionuclides and hazardous chemicals and uses TLDs and other devices to measure penetrating radiation. The program uses the GENII ode and other methods to determine radiological dose to nearby populations and individuals. Standard meteorological methods are used to monitor weather conditions and predict weather for the Hanford Site. Field surveys are used to determine location of endangered species and cultural resources so that impacts to resources are minimized during Hanford activities.

Project Status in FY 2006:

The Mission Support Project is an operating project, and ongoing operations are required in varying degrees as long as there is activity on the Hanford Site. It is anticipated that as major activities are completed on the Hanford Site, corresponding declines in the support required from the Mission Support subprojects will ensue. Specifically the following activity is planned in FY 2006:

A) Site Planning & Integration is an operating subproject. The majority of the work scope described in the scope section will be required at some level to support site planning and integration activities. Key emphasis in the near term will be focused on integration of the Office of River Protection

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Project as it builds into a full scale operation and Spent Nuclear Fuel as it pushes to complete it's work by FY 2007. Focus will be on total Site path forward as these two major projects evolve.

B) Site Systems Engineering continues to support Project Hanford. It is anticipated that as the overall scope of Project Hanford declines due to achieved cleanup that the scope of Systems Engineering will decline proportionally.

C) The Environmental Compliance Hanford Environmental Management Program is an operating subproject. The majority of the work scope will be required at some level for the duration of the Hanford project. Specifically, environmental support is required for the contractor and RL to maintain compliance with environmental requirements and agreements throughout Project Hanford cleanup. As compliance requirements change, these activities will be revised to ensure that compliance is achieved to the extent funding allows. Facility or other contractor specific compliance activities remain the responsibility of individual programs. The EEM program is an operating subproject. The primary on-site, radio nuclide effluent and environmental monitoring will continue until all radio nuclide related work is completed on Hanford site; currently projected to be completed by 2046. The NESHAP compliance construction work will be completed by December 31, 2000 and all documentation provided to EPA by April 30, 2001.

D) PNNL Public Safety & Resource Protection Program - Monitoring of the Hanford environment and resources to assess impacts will continue. In compliance with the Programmatic Agreement among RL, the Advisory Council on Historic Preservation and the Washington State Historic Preservation Office, approximately 190 buildings will have been documented as a representative sample of the facilities associated with the Manhattan Project and Cold War activities at the site. In addition, development of credible models will be completed and used to describe and predict Hanford contaminant migration and fate in the Columbia River environment.

Post-2006 Project Scope:

The Mission Support Project is an operating project, and ongoing operations are required in varying degrees as long as there is activity on the Hanford Site. It is anticipated that as major activities are completed on the Hanford Site, corresponding declines in the support required from the Mission Support subprojects will ensue. Some support is anticipated from these subprojects post 2006 as follows:

A) Site Planning & Integration is an operating project. The majority of the work scope described in the scope section will be required, at declining levels for the duration of the Hanford project. Key during the first portion of this period will be the integration and alignment of Office of River Protection activities as it grows with the variances of the Hanford Site to ensure optimization opportunities are identified. Specific functions for Site Planning and Integration may require modifications to reflect shifts in focus, strategy or funding.

B) Site Systems Engineering continues to support Project Hanford. It is anticipated that as the overall scope of Project Hanford declines due to achieved cleanup that the scope of Systems Engineering will decline proportionally.

C) Environmental Compliance is required for the contractor and RL to maintain compliance with environmental requirements and agreements throughout Project Hanford cleanup. As compliance requirements change, these activities will be revised to ensure that compliance is achieved to the extent funding allows. Facility or other contractor specific compliance activities remain the responsibility of individual programs. Effluent and Environmental Monitoring NESHAP Compliance work (Expense funding and GPP funding) must be completed by April 1, 2006. The other primary

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, on-site, radio nuclide effluent and environmental monitoring will continue until all radio nuclide related work is completed on the Hanford site; currently projected to be completed by 2046.

D) PNNL Public Safety & Resource Protection Program - Monitoring of the Hanford environment and resources to assess impacts will continue through the end of the Hanford cleanup mission.

Project End State

The Mission Support Project is an operating project. It is anticipated that as the overall scope of Project Hanford is completed, the scope of mission support project will decline proportionally, but is still required to support Site mission areas until Site end states are accomplished. Specifically in each subproject:

A) Site Planning & Integration subproject end state parallels to the accomplishment of the Hanford site mission, which for planning purposes is assumed to be in the year 2046 as a minimum. Site Planning & Integration activities will diminish as the Office of River Protection classification efforts begin, PFP is closed and most clean-up other than the 200 Area are complete (anticipated before FY 2046). The remaining few projects can do their own planning and integration, as a separate entity will no longer be required.

B) Site Systems Engineering's end state parallels the accomplishment of the Hanford Site mission, which for planning purposes, is assumed to be in the year 2046.

C) The Environmental Compliance end state parallels the accomplishment of the Hanford Site Mission which for planning purposes that is assumed to be in the year 2046. Follow on reporting and site surveillance for the majority of cases will be conducted after cleanup work is completed.

D) PNNL Public Safety & Resource Protection Program - Ambient environmental monitoring, at a reduced level, will be required and provided by this program beyond FY 2046 to ensure that the Hanford cleanup activity was effective in reducing/eliminating health and safety risks.

This program directly supports the following environmental management mission goals given in the Hanford Strategic Plan:

- Central Core: "...These areas will be available for other Federal programs or leased for non-Federal uses, consistent with appropriate recognition of cultural and ecosystem values."
- Columbia River: "...sensitive ecological, cultural, and Native American resources will be protected."
- Reactors on the River: "...ensure protection of people, the environment, and natural/cultural resources. "...sensitive ecological, cultural, and Native American resources will be protected."

Cost Baseline Comments:

A) Planning & Integration - The cost estimates for this program were developed using Activity Based Cost (ABC) estimating principles. Each of the major tasks were priced as individual units (activities) of work. None of the cost estimates contain provisions for contingencies.

B) Site Systems Engineering - The cost estimates for this program were developed using Activity Based Cost (ABC) estimating principles. Each of the

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major tasks were priced as individual units (activities) of work. None of the cost estimates contain provisions for contingencies.

C) Environmental Compliance - The minimum safe EEM work scope is funded primarily with "expense" dollars throughout the life of the Mission Support project. However, there is also a NESHAP compliance General Plant Project (GPP) (W-420) that requires funding beginning in FY99 through FY00. The Short Form Data Sheet was completed in December 1994, the Conceptual Design Review in December 1996, Key Decision Zero was completed on time and the line-item initial validation was successfully completed in May 1997. The Total Estimated Cost (TEC) for Project W-420 is \$2.7 million; the Total Project Cost (TPC) is \$3.4 million. The technical narrative for this subproject includes post EM mission activities. These activities are not included in the cost baseline profile.

D) PNNL Public Safety & Resource Protection Program - The cost estimate is based upon Activity-Based Cost Estimating (ABC). No contingency is included in the cost baseline. Complete documentation of the basis of estimate is available for review in Project Documentation Packages (PDP) for each of the program's subactivities cost. The technical narrative for this subproject includes post EM mission activities. These activities are not included in the cost baseline profile.

Safety & Health Hazards:

A) Planning & Integration - N/A

B) Site System Engineering - N/A

C) Environmental Compliance - The HEMP program is developing and implementing a PHMC-wide chemical management system with the goal being to: 1) Manage and control chemicals from procurement through use and final disposition; 2) Develop and maintain procedures for identifying and evaluating hazards and environmental impacts present in facilities, and the hazard classification of the facilities. Effluent and Environmental Monitoring Program - The U. S. Department of Energy (DOE) may promulgate the final rule, 10 CFR 834, "Radiation Protection of the Public and the Environment" in 2000. This rule establishes controls for the release of radioactive material and limits for the amount of radiation exposure to the public and the environment. It will be applicable to activities of DOE contractors at the Hanford site. This rule is expected to replace the bulk of DOE Orders 5400.5, "Radiation Protection of the Public and the Environment" and 5400.1, "General Environmental Protection Program". In doing so, these Orders will be backed by the Price-Anderson enforcement procedures and carry penalties for non-compliance. Authorization bases for the EEM Project are as follows: Clean Air Act (40 CFR 61, 40 CFR 70); 10 CFR 834; 10 CFR 835; WAC Air Emissions Regulations (246-247, 173-400); DOE Orders (5400.1, 5400.5, 5484.1, 5820.2).

D) PNNL Public Safety & Resource Protection Program - This program provides environmental monitoring in and around the Hanford Site to help assess health and safety impacts to workers and the public. Program activities are aimed at monitoring and tracking the movement of hazardous materials in pathways leading to potential human exposures. The program monitors radioactive contamination in the air, vegetation, wildlife, and in the Columbia River. This monitoring and surveillance poses a potential radiological hazard to workers at a hazardous site, in addition to normal occupational hazards, e.g., lifting, tripping, or falls in conducting field activities. The program can involve work in remote locations and occasionally under extreme winds and temperatures. The activities also include the use of pressure vessels, firearms, tranquilizer dart guns, aircraft, watercraft, and off-road vehicles. The potential for high noise levels exists when discharging firearms or riding in the Thunderjet boat at speed. Some environmental samples (small volumes and quantities) may contain low levels of radioactive materials and hazardous chemicals present in environmental media on

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the Hanford Site. These are transported from the field to the analytical laboratories receiving stations, potentially over public roads. Nine community-operated environmental surveillance stations are operated offsite under subcontract to private citizens. Four of these stations are accessible to the public. A potential risk at these four stations is a sensor containing a pressurized chamber charged to 300 V. Monitoring teams can also respond to accidental spills or releases of hazardous materials. These hazards will persist throughout the life of the monitoring program.

Safety & Health Work Performance:

A) Planning & Integration - N/A

B) Site Systems Engineering - N/A

C) Environmental Compliance - The principal S&H resources necessary to accomplish this program's work safely are Health Physics Technicians (HPT's). The average cost per FTE (burdened rate) is \$92K/year. No appreciable change in S&H resource requirements is anticipated for the life of the program. HPTs often use unimproved roads on the Hanford Site to get to sampling locations, and occasionally travel offroad. Such sampling activities are addressed in a Job Safety Analysis and field staff have telephones or radios in the vehicles.

D) PNNL Public Safety & Resource Protection Program - The principal S&H resources necessary to accomplish this program's work safely are Radiation Control Technologists (RCTs). The average cost per FTE (burdened rate) is \$161K/year. No appreciable change in S&H resource requirements is anticipated for the life of the program. RCTs often use unimproved roads on the Hanford Site to get to sampling locations, and occasionally travel offroad. Such sampling activities are addressed in a Job Safety Analysis and field staff have telephones or radios in the vehicles.

Safety analyses are conducted for wildlife flights and/or captures and similar above normal risk activities. There are always at least two persons in the field together at any given time.

There are no unfunded or underfunded S&H resource requirements in this PBS.

PBS Comments:

A) Planning & Integration - All site projects are impacted by the Site Planning & Integration (SP&I) function to the extent that it (SP&I) is responsible for ensuring that all aspects of the Hanford project are integrated into a unified cleanup effort. The result of this effort is the efficient allocation of human and capital resources in a manner that maximizes budget expenditures, and the attainment of the cleanup mission. Site Systems Engineering technical and integration functions are spread across the Site Planning and Integration Program (WBS 1.8.2) and the Systems Engineering (WBS) 1.8.1.2 Program. The scope as defined under each of these areas must occur simultaneously in order for systems engineering to be established and implemented in accordance with the PHMC Contract, & DOE Orders.

B) Hanford Environmental Management Program (HEMP) - The purpose of the Hanford Environmental Management Program is to ensure facilities/programs achieve compliance with environmental requirements and agreements and to provide RL with a mechanism to coordinate specific environmental activities between its contractors. For sitewide reports and permits, the contractor coordinates and integrates the activities of Hanford Site contractors as directed by RL and subject to cooperation by the other contractors. For regulator access, the contractor provides a focal point for regulator data needs and issues. The goal of the Hanford Environmental Management Program is to develop and implement strategies that support the

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contractor and RL compliance with specific environmental requirements and agreements that crosscut missions and/or programs as follows:

- Support RL in achieving compliance with applicable environmental requirements and agreements.
- Coordinate development of consistent NEPA documentation across programs and maintain a record of all NEPA/SEPA documentation for the Hanford Site.
- Provide coordination and facilitation of onsite inspections by regulatory agencies; provide a focal point for resolution of potential environmental noncompliance that crosscut Hanford Site programs.
- Ensure submittal of mandatory State and Federal environmental reports that crosscut missions and/or programs.
- Develop and negotiate RCRA, and Air and Water permit applications that potentially crosscut Hanford Site programs; coordinate program-specific activities to the degree necessary to accomplish this crosscutting function and to meet crosscutting permit requirements.
- Coordinate and integrate all aspects of the Tri-Party Agreement to ensure compliance; facilitate all Tri-Party Agreement negotiations, and provide global visibility of Tri-Party Agreement milestone and schedule status.
- Develop, implement and improve environmental management systems (e.g. Integrated Safety Management System and Chemical Management System).

C) Effluent and Environmental Monitoring Program- This EEM monitoring and reporting is required by the Federal Clean Air Act. This work scope also expedites legal and regulatory compliance of major Hanford facilities such as Tank Farms, Plutonium Finishing Plant (PFP), and others. NESHAP FFCA Compliance Support provided by this project is a HQ DOE, EM-30 directed (in 1993), service provided to Hanford site facility managers to gain economies and efficiencies in bringing non compliant facilities into compliance with NESHAP related laws or regulations. Nevertheless, each facility's management staff remains ultimately responsible, and legally liable, for its own NESHAP compliance. All EEM Program activities are performed in compliance with Federal, State, and Department of Energy laws and regulations. Fines and penalties, retroactive to December 1989, could be assessed by the regulators if this work scope is not up-to-date in its monitoring, reporting, and other documentation.

D) Site Systems Engineering -Site Systems Engineering technical and integration functions are spread across 1.8.2.1.1.4 and 1.8.2.1.2. The scope as defined must occur simultaneously in order for systems engineering to be established and implemented in accordance with the PHMC Contract, & DOE Orders, and DNFSB Recommendations and expectations.

E) PNNL Public Safety & Resource Protection Program - These mission support activities play an integral role in the success of the Hanford cleanup mission. They assure the public and the stakeholders that DOE has contained or continues to contain radiological and hazardous waste. The program surveillance and monitoring activities comply with DOE Orders 5400.5, 5400.1, and 10 CFR 834 when promulgated, as well as 10 CFR 20 when the NRC takes over regulatory duties under that rule.

Baseline Validation Narrative:

- A) Planning & Integration - N/A
- B) Site System Engineering - N/A
- C) Environmental Compliance - N/A

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D) PNNL Public Safety & Resource Protection Program - Although no comprehensive validation was performed on all projects in the program, there have been several piecemeal reviews conducted over the last few years as follows:

- US Army Corps of Engineers independent assessment of program (2/97) to evaluate the quality of the scope of work, cost and schedule estimates, methodology, key assumptions, and supporting documentation. The audit team reported the estimate to be adequate and provided some recommendations that have been implemented.

- Jason Associates Corporation independent review of the Meteorological and Climatological Project (7/17/96) work scope and costs. The project was found to be technically adequate to meet site needs. The major finding was that the project is understaffed due to inadequate funding.

A decision was made that an independent review would not be necessary during FY 1999. Such a review would not add material benefit and would not be of substantial additional value. The next review is planned during FY 2000. (Prior reviews have confirmed the budget requests directly reflect the approved baseline; planning process used has been verified to conform with EM estimating guidelines; the scope of work has not substantially changed over the past several years; the annual planning process has been continuously enhanced to meet current expectations; the funding appropriation is relatively small in comparison to the total RL site budget and does not warrant extensive independent reviews similar to those used for larger projects.)

General PBS Information

Project Validated? **Date Validated:**

Has Headquarters reviewed and approved project? Yes

Date Project was Added: 12/1/1997

Baseline Submission Date:

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	Y			Y	Y	Y

Project Identification Information

DOE Project Manager: R.R. Tibbatts

DOE Project Manager Phone Number: 509-376-8669

DOE Project Manager Fax Number: 509-376-8038

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DOE Project Manager e-mail address: robert_r_tibbatts@rl.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	284,413	1,669,959	1,954,372	28,869	35,191	25,031	24,600	26,375	27,337	30,564	29,282	29,096	28,848	29,198	29,813	
PBS Baseline (constant 1999 dollars)	267,670	911,242	1,178,912	28,869	35,191	25,031	24,600	26,375	26,775	29,291	27,458	26,697	25,899	25,649	25,626	
PBS EM Baseline (current year dollars)	284,413	1,669,959	1,954,372	28,869	35,191	25,031	24,600	26,375	27,337	30,564	29,282	29,096	28,848	29,198	29,813	
PBS EM Baseline (constant 1999 dollars)	267,670	911,242	1,178,912	28,869	35,191	25,031	24,600	26,375	26,775	29,291	27,458	26,697	25,899	25,649	25,626	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	24,732	32,709	33,642	34,593	175,637	191,766	213,086	216,886	194,192	210,993	234,528	107,195				
PBS Baseline (constant 1999 dollars)	20,801	26,917	27,089	27,255	129,698	127,008	126,580	115,555	92,797	90,430	90,154	36,958				
PBS EM Baseline (current year dollars)	24,732	32,709	33,642	34,593	175,637	191,766	213,086	216,886	194,192	210,993	234,528	107,195				
PBS EM Baseline (constant 1999 dollars)	20,801	26,917	27,089	27,255	129,698	127,008	126,580	115,555	92,797	90,430	90,154	36,958				

Project Baseline Summary Report

Data Source: **EM CDB**
 Operations/Field Office: **Richland**
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Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.10%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/30/2046
 Current Projected End Date of Project: 9/30/2046
 Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	1,449,820	Actual 1997 Cost:	35,191	Actual 1998 Cost:	24,600
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	1,390,029	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			37,531
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	1,427,560				

Project Cost Changes

Cost Adjustments Reconciliation Narratives

Cost Change Due to Scope Deletions (-):
 Cost Reductions Due to Efficiencies (-):
 Cost Associated with New Scope (+):
 Cost Growth Associated with Scope Previously Reported (+):
 Cost Reductions Due to Science & Technology Efficiencies (-):
 Subtotal: 1,427,560

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Project Reconciliation

Additional Amount to Reconcile (+): -302,548

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): **1,125,012**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
CONDUCT BIENNIAL ASSESS OF INFO & DATA ACCESS W/EPA AND ECOLOGY	ESH-02-020	3/31/2002	3/31/2002	3/31/2002			Y				
CONDUCT BIENNIAL ASSESS. OF INFO. & DATA ACCESS NEEDS W/EPA&ECOLO	ESH-49-00	12/31/2049	12/31/2049	12/31/2049			Y				
CONDUCT BIENNIAL ASSESS. OF INFO. AND DATA ACCESS NEEDS EPA&ECOLO	ESH-00-020	3/31/2000	3/31/2000	3/31/2000			Y				
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-99-011	4/30/1999	4/30/1999	4/30/1999			Y				
SUBMIT PART B PERMIT APPLICATIONS OR CLOSURE PLANS FOR ALL RCRA	ESH-00-013	2/28/2004	2/28/2004	2/28/2004			Y				
COMPLETE IDENTIFIED DANGEROUS WASTE TANK CORRECTIVE ACTIONS	ESH-99-022	9/30/1999	9/30/1999	9/30/1999			Y				
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-00-011	4/30/2000	4/30/2000	4/30/2000			Y				
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-01-011	4/30/2001	4/30/2001	4/30/2001			Y				
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-02-011	4/23/2002	4/23/2002	4/30/2002			Y				
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-03-011	4/23/2003	4/23/2003	4/30/2003			Y				
SUB. PART B PERMIT APP./CLOS. PLANS FOR ALL PHMC RCRA TSD UNITS	ECP-04-001	2/28/2004	2/28/2004	2/28/2004			Y				
COMPLETE ID OF DANGEROUS WASTE TANK CORR. ACTIONS (FY 2000-2046)	ECP-00-002	9/30/2000	9/30/2000	9/30/1999			Y				

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**
 Operations/Field Office: **Richland**
 Site Summary Level: **Hanford Site**
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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
SUBMIT AN ANNUAL HANF LAND DISPOSAL REST REPT (FOR FY 2000-2046)	ECP-00-507	4/23/2000	4/23/2000	4/30/1999			Y				
BIENNIAL ASSESS. OF INFO. & DATA ACCESS NEEDS EPA/ECO (2000-2046)	ECP-00-003	3/31/2000	3/31/2000	3/31/2000			Y				
ISSUE ANNUAL REPORT ON ENVIRONMENTAL RELEASES	ECP-99-804	8/31/1999	8/31/1999								
ISSUE ANNUAL REPORT ON ENV. RELEASES (FOR FY 2000-2046)	ECP-00-804	8/31/2000	8/31/2000								
PROVIDE CY98 SITE ENVIRONMENTAL REPORT TO RL/PUBLIC	RLOT013903	9/30/1999	9/30/1999		9/30/1999						
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ECP-99-507	4/23/1999	4/23/1999	4/30/1999			Y				
Provide CY 1999 Site Environmental Report to RL/Public	RLOT013003	9/30/2000	9/30/2000								
Provide CY 2000 Site Environmental Report to RL/Public	RLOT013103	9/30/2001	9/30/2001								
RCRA GENERAL FACILITY INSPECTIONS (FOR YEAR 2000-2046)	ECP-00-301	9/30/2000	9/30/2000				Y				
RCRA PERMIT CLASS I MOD NOTIFICATION QUARTER 1 (FOR YR 2000-2046)	ECP-00-302	10/1/1999	10/1/1999				Y				
RCRA PERMIT CLASS I MOD NOTIFICATION QUARTER 2 (FOR FY 2000-2046)	ECP-00-303	1/1/2000	1/1/2000			12/17/1998	Y				
RCRA PERMIT CLASS I MOD NOTIFICATION QUARTER 3 (FOR FY 2000-2046)	ECP-00-304	4/2/2000	4/2/2000				Y				
RCRA PERMIT CLASS I MOD NOTIFICATION QUARTER 4 (FOR YR 2000-2046)	ECP-00-305	7/2/2000	7/2/2000				Y				
ANNUAL ASBESTOS NOTIFICATION OF INTENT (FOR YEAR 2000-2046)	ECP-00-306	12/31/1999	12/31/1999			12/14/1998	Y				

Dataset Name: **FY 1999 Planning Data**

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Project Baseline Summary Report

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
COMPLETE SHORELINE INSPECTIONS (FOR FY 2000-2046)	ECP-00-409	9/30/2000	9/30/2000				Y				
ANNUAL PTRAEU REPORT TO DOE-RL (FOR FY 2000-2046)	ECP-00-410	2/1/2000	2/1/2000				Y				
INTEGRATED AOP SEMIANNUAL REPORT (FOR FY 2000-2046)	ECP-00-417	9/30/2000	9/30/2000				Y				
DELIVER FINAL RISK MANAGEMENT PLAN TO RL (FY 2000-2046)	ECP-00-419	6/4/2000	6/4/2000				Y				
EPCRA 312 TIER TWO EMERG & HAZ CHEM INVENTORY REPT (FY 2000-2046)	ECP-00-501	2/22/2000	2/22/2000				Y				
EPCRA 313 TOXIC CHEM RELEASE INVENTORY REPT (FOR FY 2000-2046)	ECP-00-502	6/24/2000	6/24/2000				Y				
1999 HANFORD SITE ANNUAL DANGEROUS WASTE REPORT (FOR FY 2000-2046)	ECP-00-503	2/22/2000	2/22/2000				Y				
1999 HANFORD SITE ANNUAL PCB DOCUMENT LOG (FOR FY 2000-2046)	ECP-00-504	6/24/2000	6/24/2000				Y				
1999 ANNUAL PCB REPORT (FOR FY 2000-2046)	ECP-00-505	7/8/2000	7/8/2000				Y				
ANNUAL RPT OF HANFORD FAC. RCRA PERM. NONCOMPLIANCE (FY2000-2046)	ECP-00-701	2/24/2000	2/24/2000				Y				
UPDATE ESTIMATE OF CLOSURE/POSTCLOSURE COSTS (FOR FY 2000-2046)	ECP-00-702	10/23/1999	10/23/1999				Y				
COORDINATE RCRA PIPE MAPPING AND MARKING (FOR FY 2000-2046)	ECP-00-703	9/21/2000	9/21/2000				Y				
TRANSMIT EIS/ODIS DATA TO INEEL (FOR FY 2000-2046)	ECP-00-801	4/1/2000	4/1/2000				Y				
ISSUE ANNUAL NONRADIOACTIVE AIRBORNE EMISSIONS REPT (FY 2000-2046)	ECP-00-802	4/1/2000	4/1/2000				Y				

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Project Baseline Summary Report

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
ISSUE ANNUAL RADIONUCLIDE AIR EMISSIONS REPT (FOR FY 2000-2046)	ECP-00-803	6/15/2000	6/15/2000				Y				
ISSUE THIRD QUARTER NESHAP STATUS (FOR FY 2000-2046)	ECP-00-901	10/23/1999	10/23/1999				Y				
ISSUE FOURTH QUARTER NESHAP STATUS (FOR FY 2000-2046)	ECP-00-902	1/22/2000	1/22/2000				Y				
COMPLETE STACK REASSESSMENTS FOR B-28, P16 STACKS (FY2000-2046)	ECP-00-903	2/28/2000	2/28/2000				Y				
ISSUE FIRST QUARTER NESHAP STATUS REPORT (FOR FY 2000-2046)	ECP-00-904	4/23/2000	4/23/2000				Y				
ISSUE SECOND QUARTER NESHAP STATUS (FOR FY 2000-2046)	ECP-00-906	7/23/2000	7/23/2000				Y				
CONCRETE PAD FOR STACK 296-A-25 (244-A DCRT)	ECP-99-111	6/30/1999	6/30/1999				Y				
CONCRETE PAD FOR STACK 296-B-28 (244-BX DCRT)	ECP-99-112	6/30/1999	6/30/1999				Y				
CONCRETE PAD FOR STACK 296-C-5 (244-CR VAULT)	ECP-99-113	6/30/1999	6/30/1999				Y				
CONCRETE PAD FOR STACK 296-P-16 (244-C TANK FARM)	ECP-99-114	6/30/1999	6/30/1999				Y				
CONCRETE PAD FOR STACK 296-S-22 (244-S DCRT)	ECP-99-115	6/30/1999	6/30/1999				Y				
CONCRETE PAD FOR STACK 296-T-18 (244-TX DCRT)	ECP-99-116	6/30/1999	6/30/1999				Y				
RCRA GENERAL FACILITY INSPECTIONS	ECP-99-301	9/30/1999	9/30/1999				Y				
RCRA PERMIT CLASS I MODIFICATION NOTIFICATION - QUARTER 1	ECP-99-302	10/1/1998	10/1/1998			9/25/1998	Y				
RCRA PERMIT CLASS 1 MODIFICATION	ECP-99-303	1/1/1999	1/1/1999			12/17/1998	Y				

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
NOTIFICATION - QUARTER 2											
RCRA PERMIT CLASS I MODIFICATION NOTIFICATION - QUARTER 3	ECP-99-304	4/2/1999	4/2/1999				Y				
RCRA PERMIT CLASS 1 MODIFICATION NOTIFICATION - QUARTER 4	ECP-99-305	7/2/1999	7/2/1999				Y				
ANNUAL ASBESTOS NOTIFICATION OF INTENT	ECP-99-306	12/31/1998	12/31/1998			12/14/1998	Y				
COMPLETE SHORELINE INSPECTIONS	ECP-99-409	9/30/1999	9/30/1999				Y				
ANNUAL PTRAEU REPORT TO DOE-RL	ECP-99-410	1/31/1999	1/31/1999			1/31/1999	Y				
INTEGRATED AIR OPERATING PERMIT SEMIANNUAL REPORT	ECP-99-417	9/30/1999	9/30/1999				Y				
DELIVER FINAL RISK MANAGEMENT PLAN TO DOE-RL	ECP-99-419	6/7/1999	6/7/1999				Y				
EPCRA 312 TIER TWO EMERGENCY & HAZ CHEMICAL INVENTORY REPORT	ECP-99-501	2/22/1999	2/22/1999			2/22/1999	Y				
EPCRA 313 TOXIC CHEMICAL RELEASE INVENTORY REPORT	ECP-99-502	6/24/1999	6/24/1999				Y				
1998 HANFORD SITE ANNUAL DANGEROUS WASTE REPORT	ECP-99-503	2/22/1999	2/22/1999			2/22/1999	Y				
1998 HANFORD SITE ANNUAL POLYCHLORINATED BIPHENYL DOCUMENT LOG	ECP-99-504	6/24/1999	6/24/1999				Y				
1998 ANNUAL POLYCHLORINATED BIPHENYL REPORT	ECP-99-505	7/8/1999	7/8/1999				Y				
ANNUAL REPORT OF HANFORD FACILITY RCRA PERMIT NONCOMPLIANCES	ECP-99-701	2/24/1999	2/24/1999			2/17/1999	Y				
UPDATE ESTIMATE OF CLOSURE AND POST-CLOSURE COSTS	ECP-99-702	10/23/1998	10/23/1998			10/23/1998	Y				

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
COORDINATE RCRA PIPE MAPPING AND MARKING	ECP-99-703	9/21/1999	9/21/1999				Y				
TRANSMIT EIS/ODIS DATA TO INEEL	ECP-99-801	4/1/1999	4/1/1999				Y				
ISSUE ANNUAL NONRADIOACTIVE AIRBORNE EMISSIONS REPORT	ECP-99-802	4/1/1999	4/1/1999				Y				
ISSUE ANNUAL RADIONUCLIDE AIR EMISSIONS REPORT	ECP-99-803	6/15/1999	6/15/1999				Y				
ISSUE 3RD QUARTER NESHAP STATUS	ECP-99-901	10/23/1998	10/23/1998			10/15/1998	Y				
ISSUE 4TH QUARTER NESHAP STATUS	ECP-99-902	1/22/1999	1/22/1999			1/22/1999	Y				
COMPLETE STACK REASSESSMENTS FOR B-28, P16 STACKS	ECP-99-903	2/28/1999	2/28/1999			2/11/1999	Y				
ISSUE 1ST QUARTER NESHAP STATUS REPORT	ECP-99-904	4/23/1999	4/23/1999				Y				
SUBMIT LETTER ON PROJECT W-420 START OF CONSTRUCTION	ECP-99-905	6/30/1999	6/30/1999				Y				
ISSUE 2ND QUARTER NESHAP STATUS	ECP-99-906	7/23/1999	7/23/1999				Y				
Begin Mission Support Project	PBS-97-038		2/28/1997								
PBS Mission Completion	PBS-MC-038		9/30/2046								
PBS Project End	PBS-PE-038		9/30/2046								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
CONDUCT BIENNIAL ASSESS OF INFO & DATA ACCESS W/EPA AND ECOLOGY	ESH-02-020										
CONDUCT BIENNIAL ASSESS. OF INFO. & DATA ACCESS	ESH-49-00										

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Project Baseline Summary Report

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
NEEDS W/EPA&ECOLO											
CONDUCT BIENNIAL ASSESS. OF INFO. AND DATA ACCESS NEEDS EPA&ECOLO	ESH-00-020										
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-99-011										Issue the Annual LDR Status report for subsequent transmittal by RL to Ecology and EPA by April 30, 1999
SUBMIT PART B PERMIT APPLICATIONS OR CLOSURE PLANS FOR ALL RCRA	ESH-00-013										
COMPLETE IDENTIFIED DANGEROUS WASTE TANK CORRECTIVE ACTIONS	ESH-99-022										
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-00-011										
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-01-011										
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-02-011										(1.8.2.1.3.51) Issue the Annual LDR Status report for subsequent transmittal by RL to Ecology and EPA by April 30, 2002.
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ESH-03-011										(1.8.2.1.3.51) Issue the Annual LDR Status report for subsequent transmittal by RL to Ecology and EPA by April 30, 2003.
SUB. PART B PERMIT APP./CLOS. PLANS FOR ALL PHMC RCRA TSD UNITS	ECP-04-001										Prepare Part B Permit applications or closure/postclosure plans for all PHMC-operated RCRA TSD units. Plans will be submitted to Ecology

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
COMPLETE ID OF DANGEROUS WASTE TANK CORR. ACTIONS (FY 2000-2046)	ECP-00-002										for approval. Preclosure work plans will be prepared and submitted for approval for TSD units which will achieve closure.
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT (FOR FY 2000-2046)	ECP-00-507										Complete all identified dangerous waste tank corrective actions. Tank integrity assessments will not be required for terminal cleanout of the Plutonium-Uranium Extraction plant (PUREX), except for tanks F18, U3, and U4.
BIENNIAL ASSESS. OF INFO. & DATA ACCESS NEEDS EPA/ECO (2000-2046)	ECP-00-003										Prepare and issue the 2000 update of the annual status report on Hanford site Land Disposal Restrictions for Mixed Waste. This DOE-RL primary document, per the Tri-Party Agreement contains waste characterization information, storage data, treatment information.
ISSUE ANNUAL REPORT ON ENVIRONMENTAL RELEASES	ECP-99-804										Conduct a biennial assessment of information and data access needs with EPA and Ecology.
ISSUE ANNUAL REPORT ON ENV. RELEASES (FOR FY 2000-2046)	ECP-00-804										This annual report presents data for radioactive and nonradioactive substances released into the environment during the previous calendar year from the Hanford Site facilities managed by FDH and BHI. Both summary and detailed presentations of this data are included.
ISSUE ANNUAL REPORT ON ENV. RELEASES (FOR FY 2000-2046)	ECP-00-804										This annual report presents data for radioactive and nonradioactive substances released into the environment during the previous calendar year from the Hanford Site facilities managed by FDH and BHI. Both summary and detailed presentations of this data are included.

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Project Baseline Summary Report

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
PROVIDE CY98 SITE ENVIRONMENTAL REPORT TO RL/PUBLIC	RLOT013903										environment during the previous calendar year from the Hanford Site facilities managed by FDH and BHI. Both summary and detailed presentations of this data a The milestone is to submit to DOE-HQ, DOE-RL, and the public a copy of the Hanford Site Environmental Report for CY 1998. The report will be based on DOE-HQ guidance typically available in January when planning must begin; and subsequent guidance addresse
SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT	ECP-99-507										Prepare and issue the 1999 update of the annual status report on Hanford Site land disposal restrictions for mixed waste. This DOE-RL primary document, per the Tri-party Agreement, contains waste characterization information, storage data, treatment info
Provide CY 1999 Site Environmental Report to RL/Public	RLOT013003										To submit to DOE-HQ, DOE-RL, and the public a copy of the Hanford Site Environmental Report for FY 1999. The report will be based on DOE-HQ guidance typically available in January when planning must begin; and subsequent guidance addressed as practicable
Provide CY 2000 Site Environmental Report to RL/Public	RLOT013103										To submit to DOE-HQ, DOE-RL, and the public a copy of the Hanford Site Environmental Report for FY 2000. The report will be based on

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Project Baseline Summary Report

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
RCRA GENERAL FACILITY INSPECTIONS (FOR YEAR 2000-2046)	ECP-00-301										DOE-HQ guidance typically available in January when planning must begin; and subsequent guidance addressed as practicable The 100, 200, 300, 400, and 1100 areas will annually be visually inspected for malfunctions, deteriorations, operator errors, and discharges that could cause or lead to the release of dangerous waste constituents to the environment or that could threat hu
RCRA PERMIT CLASS I MOD NOTIFICATION QUARTER 1 (FOR YR 2000-2046)	ECP-00-302										A quarterly notification report will be submitted to DOE-RL as required by WAC 173-303-830(4)(a)(i)(A) and Condition I.C.3 of the Hanford Facility RCRA Permit (Dangerous Waste Portion). The report is to provide information for all Class I Modifications p
RCRA PERMIT CLASS I MOD NOTIFICATION QUARTER 2 (FOR FY 2000-2046)	ECP-00-303										A quarterly notification report will be submitted to DOE-RL as required by WAC 173-303-830(4)(a)(i)(A) and Condition I.C.3. of the Hanford Facility RCRA Permit (Dangerous Waste Portion). The report is to provide information for all Class I modifications
RCRA PERMIT CLASS I MOD NOTIFICATION QUARTER 3 (FOR FY 2000-2046)	ECP-00-304										A quarterly notification report will be submitted to DOE-RL as required by WAC 173-303-830(4)(a)(i)(A) and Condition I.C.3. of the Hanford Facility RCRA Permit (Dangerous

Project Baseline Summary Report

Data Source: **EM CDB**
 Operations/Field Office: **Richland**
 Site Summary Level: **Hanford Site**
 Project **RL-OT01 / MISSION SUPPORT**

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
RCRA PERMIT CLASS I MOD NOTIFICATION QUARTER 4 (FOR YR 2000-2046)	ECP-00-305										Waste Portion). The report is to provide information for all Class I modifications A quarterly notification report will be submitted to DOE-RL as required by WAC 173-303-830(4)(a)(i)(A) and Condition I.C.3. of the Hanford Facility RCRA Permit (Dangerous Waste Portion). The report is to provide information for all Class I modifications
ANNUAL ASBESTOS NOTIFICATION OF INTENT (FOR YEAR 2000-2046)	ECP-00-306										FDH will compile and send to the Benton Clean Air Authority the annual asbestos notification of intent for Calendar year 2000 by December 31, 1999.
COMPLETE SHORELINE INSPECTIONS (FOR FY 2000-2046)	ECP-00-409										Complete shoreline inspections necessary to prepare and compile the annual Hanford Site Stormwater Comprehensive Site Compliance Evaluation Report.
ANNUAL PTRAEU REPORT TO DOE-RL (FOR FY 2000-2046)	ECP-00-410										Annual PTRAEU report to DOE-RL.
INTEGRATED AOP SEMIANNUAL REPORT (FOR FY 2000-2046)	ECP-00-417										Provide integrated PHMC semiannual report required by AOP to DOE-RL EAP.
DELIVER FINAL RISK MANAGEMENT PLAN TO RL (FY 2000-2046)	ECP-00-419										Provide final Risk Management Plan to DOE-RL or a determination an Risk Management Plan is not required by the PHMC.
EPCRA 312 TIER TWO EMERG & HAZ CHEM INVENTORY	ECP-00-501										The Tier Two Emergency and Hazardous Chemical Inventory (Tier

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**
 Operations/Field Office: **Richland**
 Site Summary Level: **Hanford Site**
 Project **RL-OT01 / MISSION SUPPORT**

Report Number: **GEN-01b**
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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
REPT (FY 2000-2046)											Two) report contains hazards, storage, and location information on Hazardous chemicals stored in the Hanford Site in amounts exceeding minimum threshold levels established in 40 CFR 370.20. Th
EPCRA 313 TOXIC CHEM RELEASE INVENTORY REPT (FOR FY 2000-2046)	ECP-00-502										The Toxic Chemical Release Inventory (TRI) report contains information regarding releases of toxic chemicals used in amounts exceeding established activity thresholds, and pollution prevention activities involving those chemicals. The reporting requireme
1999 HANFORD SITE ANNUAL DANGEROUS WASTE REPORT (FOR FY 2000-2046)	ECP-00-503										The Annual Dangerous Waste Report is a compilation of the DOE dangerous waste generation and waste management activities on the Hanford Site for the calendar year. Data received from PHMC managed projects/facilities will be certified. Other site prime
1999 HANFORD SITE ANNUAL PCB DOCUMENT LOG (FOR FY 2000-2046)	ECP-00-504										Prepare a PCB annual document log that provides information on all DOE PCB waste handling activities on the Hanford site regulated under TSCA. The details for the log content and preparation time frame are contained in 40 CFR 761.180
1999 ANNUAL PCB REPORT (FOR FY 2000-2046)	ECP-00-505										The 1999 Annual PCB report provides summary information on the PCB waste handling activities for Trench 94 of the 218-E-12B Burial

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**
 Operations/Field Office: **Richland**
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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ANNUAL RPT OF HANFORD FAC. RCRA PERM. NONCOMPLIANCE (FY2000-2046)	ECP-00-701										Ground in the 200 East Area and any other PCB disposal units on the Hanford Site regulated under TSCA. The report is prepar
UPDATE ESTIMATE OF CLOSURE/POSTCLOSURE COSTS (FOR FY 2000-2046)	ECP-00-702										Submit to DOE-RL a report that addresses the requirement in condition I.E.19 of the Hanford Facility RCRA Permit at the time the Annual Dangerous Waste Report is submitted. This report will identify all instances of noncompliances for standard and genera
COORDINATE RCRA PIPE MAPPING AND MARKING (FOR FY 2000-2046)	ECP-00-703										Submit to DOE-RL an annual report updating projections of anticipated costs for closure and postclosure of Contractor co-operated TSD units incorporated into Parts III, V, or VI of the Hanford Facility RCRA Permit (Dangerous Waste Portion). This report w
TRANSMIT EIS/ODIS DATA TO INEEL (FOR FY 2000-2046)	ECP-00-801										By September 21, 2000, deliver to DOE-RL a report updating the Hanford Facility RCRA Permit Mapping Information Report as required by Permit Conditions II.U and II.V. The mapping report will contain/be based on information received in complete form from
											DOE requires its sites to annually compile and send radionuclide release data, for both liquid and airborne discharges, to the Idaho National Environmental Engineering

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Data Source: **EM CDB**
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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ISSUE ANNUAL NONRADIOACTIVE AIRBORNE EMISSIONS REPT (FY 2000-2046)	ECP-00-802										Laboratory (INEEL) in Idaho Falls, Idaho, in accordance with DOE Order 5400.1. This da The nonradioactive airborne emissions report contains information on BHI and FDH managed operations having the potential to emit combustion products from fossil fuels and inorganic compounds from waste storage tanks. Preparation of this report requires th
ISSUE ANNUAL RADIONUCLIDE AIR EMISSIONS REPT (FOR FY 2000-2046)	ECP-00-803										The Radionuclide Air Emissions Report for the Hanford Site is due to the EPA by June 30 of each year following the year being reported in accordance with 40 CFR 61, Subpart H. The report is prepared for DOE-RL and contains data on radionuclides emitted t
ISSUE THIRD QUARTER NESHAP STATUS (FOR FY 2000-2046)	ECP-00-901										This milestone is a quarterly report on the progress made towards satisfying the FFCA requirements. This quarterly report is required as an update on Hanford site activities performed in support of the FFCA.
ISSUE FOURTH QUARTER NESHAP STATUS (FOR FY 2000-2046)	ECP-00-902										This milestone is a quarterly report on the progress made towards satisfying the FFCA requirements. This quarterly report is required as an update on Hanford Site activities performed in support of the FFCA.
COMPLETE STACK	ECP-00-903										Complete reassessments of the B-28

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Project Baseline Summary Report

Data Source: **EM CDB**
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 Project **RL-OT01 / MISSION SUPPORT**

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
REASSESSMENTS FOR B-28, P16 STACKS (FY2000-2046)											and P-16 stacks. Update the calculation of the potential-to-emit and subsequent offsite dose. Determine if these stacks remain designated as major NESHAP emissions units.
ISSUE FIRST QUARTER NESHAP STATUS REPORT (FOR FY 2000-2046)	ECP-00-904										This milestone is a quarterly report on the progress made towards satisfying the FFCA requirements. This quarterly report is required as an update on Hanford Site activities performed in support of the FFCA.
ISSUE SECOND QUARTER NESHAP STATUS (FOR FY 2000-2046)	ECP-00-906										This milestone is quarterly report on the progress made towards satisfying the FFCA requirements. This quarterly report is required as an update on Hanford Site activities performed in support of the FFCA.
CONCRETE PAD FOR STACK 296-A-25 (244-A DCRT)	ECP-99-111										Place ancillary concrete pad at 244-A DCRT in support of the monitoring upgrade on stack 296-A-25 to meet one of the six legally enforceable Federal Facility Compliance Agreement milestones.
CONCRETE PAD FOR STACK 296-B-28 (244-BX DCRT)	ECP-99-112										Place ancillary concrete pad at 244-BX DCRT in support of the monitoring upgrade on stack 296-B-28 to meet one of the six legally enforceable Federal Facility Compliance Agreement milestones.
CONCRETE PAD FOR STACK 296-C-5 (244-CR VAULT)	ECP-99-113										Place ancillary concrete pad at 244-CR Vault in support of the monitoring upgrade on stack 296-C-

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Project Baseline Summary Report

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 Project **RL-OT01 / MISSION SUPPORT**

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
CONCRETE PAD FOR STACK 296-P-16 (244-C TANK FARM)	ECP-99-114										5 to meet one of the six legally enforceable Federal Facility Compliance Agreement milestones. Place ancillary concrete pad at 241-C Tank Farm in support of the monitoring upgrade on stack 296-P-16 to meet one of the six legally enforceable Federal Facility Compliance Agreement milestones.
CONCRETE PAD FOR STACK 296-S-22 (244-S DCRT)	ECP-99-115										Please ancillary concrete pad at 244-S DCRT in support of the monitoring upgrade on stack 296-S-22 to meet one of the six legally enforceable Federal Facility Compliance Agreement milestones.
CONCRETE PAD FOR STACK 296-T-18 (244-TX DCRT)	ECP-99-116										Place ancillary concrete pad at 244-TX DCRT in support of the monitoring upgrade on stack 296-T-18 to meet one of the six legally enforceable Federal Facility Compliance Agreement milestones.
RCRA GENERAL FACILITY INSPECTIONS	ECP-99-301										The 100, 200, 300, 400, and 1100 areas will annually be visually inspected for malfunctions, deteriorations, operator errors, and discharges that could cause or lead to the release of dangerous waste constituents to the environment or that could threat hu
RCRA PERMIT CLASS I MODIFICATION NOTIFICATION - QUARTER 1	ECP-99-302										A quarterly notification report will be submitted to DOE-RL as required by WAC 173-303-830(4)(a)(i)(A) and Condition I.C.3 of the Hanford

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
RCRA PERMIT CLASS 1 MODIFICATION NOTIFICATION - QUARTER 2	ECP-99-303										Facility RCRA Permit (Dangerous Waste Portion). The report is to provide information for all Class I Modifications p
RCRA PERMIT CLASS I MODIFICATION NOTIFICATION - QUARTER 3	ECP-99-304										A quarterly notification report will be submitted to DOE-RL as required by WAC 173-303-830(4)(a)(i)(A) and Condition I.C.3. of the Hanford Facility RCRA permit (Dangerous Waste Portion). The report is to provide information for all Class I modifications
RCRA PERMIT CLASS 1 MODIFICATION NOTIFICATION - QUARTER 4	ECP-99-305										A quarterly notification report will be submitted to DOE-RL as required by WAC 173-303-830(4)(a)(i)(A) and Condition I.C.3. of the Hanford Facility RCRA Permit (Dangerous Waste Portion). The report is to provide information for all Class I modifications
ANNUAL ASBESTOS NOTIFICATION OF INTENT	ECP-99-306										FDH will compile and send to the Benton Clean Air Authority the annual asbestos notification of intent for Calendar Year 1999 by December 31, 1998.

Project Baseline Summary Report

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
COMPLETE SHORELINE INSPECTIONS	ECP-99-409										Complete shoreline inspections necessary to prepare and compile the annual Hanford site Stormwater Comprehensive site Compliance Evaluation Report.
ANNUAL PTRAEU REPORT TO DOE-RL	ECP-99-410										Annual PTRAEU report to DOE-RL
INTEGRATED AIR OPERATING PERMIT SEMIANNUAL REPORT	ECP-99-417										Provide integrated PHMC semiannual report required by AOP to DOE-RL EAP.
DELIVER FINAL RISK MANAGEMENT PLAN TO DOE-RL	ECP-99-419										Provide final Risk Management Plan to DOE-RL or a determination that a Risk Management Plan is not required for the PHMC.
EPCRA 312 TIER TWO EMERGENCY & HAZ CHEMICAL INVENTORY REPORT	ECP-99-501										The Tier Two Emergency and Hazardous Chemical Inventory (Tier Two) report contains hazards, storage, and location information on hazardous chemicals stored in the Hanford Site in amounts exceeding minimum threshold levels established in 40 CFR 370.20. Th
EPCRA 313 TOXIC CHEMICAL RELEASE INVENTORY REPORT	ECP-99-502										The Toxic Chemical Release Inventory (TRI) report contains information regarding releases of toxic chemicals used in amounts exceeding established activity thresholds, and pollution prevention activities involving those chemicals. The reporting requireme
1998 HANFORD SITE ANNUAL DANGEROUS WASTE REPORT	ECP-99-503										The Annual Dangerous Waste Report is a compilation of the DOE

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
1998 HANFORD SITE ANNUAL POLYCHLORINATED BIPHENYL DOCUMENT LOG	ECP-99-504										dangerous waste generation and waste management activities on the Hanford Site for the calendar year. Data received from PHMC managed projects/facilities will be certified. Other site prime c
1998 ANNUAL POLYCHLORINATED BIPHENYL REPORT	ECP-99-505										Prepare a PCB annual document log that provides information on all DOE PCB waste handling activities on the Hanford Site regulated under TSCA. The details for the log content and preparation time frame are contained in 40 CFR 761.180.
ANNUAL REPORT OF HANFORD FACILITY RCRA PERMIT NONCOMPLIANCES	ECP-99-701										The 1998 Annual PCB report provides summary information on the PCB waste handling activities for Trench 94 of the 218-E-12B Burial Ground in the 200 East Area and any other PCB disposal units on the Hanford Site regulated under TSCA. The report is prepar
UPDATE ESTIMATE OF CLOSURE AND POST-CLOSURE COSTS	ECP-99-702										Submit to DOE-RL a report that addresses the requirement in Condition I.E.19 of the Hanford Facility RCRA Permit at the time the Annual Dangerous Waste Report is submitted. This report will identify all instances of noncompliances for standard and genera
											Submit to DOE-RL an annual report updating projections of anticipated costs for closure and postclosure of Contractor co-operated TSD units

Project Baseline Summary Report

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
COORDINATE RCRA PIPE MAPPING AND MARKING	ECP-99-703										incorporated into Parts III, V, or VI of the Hanford Facility RCRA Permit (Dangerous Waste Portion). This report w
TRANSMIT EIS/ODIS DATA TO INEEL	ECP-99-801										By September 21, 1999, deliver to DOE-RL a report updating the Hanford Facility RCRA permit Mapping Information Report as required by Permit Conditions II.U and II.V. The mapping report will contain/be based on information received in complete form from
ISSUE ANNUAL NONRADIOACTIVE AIRBORNE EMISSIONS REPORT	ECP-99-802										DOE requires its sites to annually compile and send radionuclide release data, for both liquid and airborne discharges, to the Idaho National Environmental Engineering Laboratory (INEEL) in Idaho Falls, Idaho, in accordance with DOE Order 5400.1. This da
ISSUE ANNUAL RADIONUCLIDE AIR EMISSIONS REPORT	ECP-99-803										The nonradioactive airborne emissions report contains information on BHI and FDH managed operations having the potential to emit combustion products from fossil fuels and inorganic compounds from waste storage tanks. Preparation of this report requires th
											The Radionuclide Air Emissions Report for the Hanford Site is due to the EPA by 06/30 of each year following the year being reported in

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ISSUE 3RD QUARTER NESHAP STATUS	ECP-99-901										accordance with 40 CFR 61, Subpart H. The report is prepared for DOE-RL and contains data on radionuclides emitted to This milestone is a quarterly report on the progress made towards satisfying the FFCA requirements. This quarterly report is required as an update on Hanford Site activities performed in support of the FFCA.
ISSUE 4TH QUARTER NESHAP STATUS	ECP-99-902										This milestone is a quarterly report on the progress made towards satisfying the FFCA requirements. This quarterly report is required as an update on Hanford Site activities performed in support of the FFCA.
COMPLETE STACK REASSESSMENTS FOR B-28, P16 STACKS	ECP-99-903										Complete reassessments of the B-28 and P-16 stacks. Update the calculation of the potential-to-emit and subsequent offsite dose. Determine if these stacks remain designated as major NESHAP emission units.
ISSUE 1ST QUARTER NESHAP STATUS REPORT	ECP-99-904										This milestone is a quarterly report on the progress made towards satisfying the FFCA requirements. This quarterly report is required as an update on Hanford Site activities performed in support of the FFCA.
SUBMIT LETTER ON PROJECT W-420 START OF CONSTRUCTION	ECP-99-905										Provide a letter to DOE-RL, describing the completion of the FFCA milestone to 'start construction' of Project W-420. The

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ISSUE 2ND QUARTER NESHAP STATUS	ECP-99-906										letter must be transmitted to EPA by DOE-RL.
Begin Mission Support Project	PBS-97-038			Y							This milestone is a quarterly report on the progress made towards satisfying the FFCA requirements. This quarterly report is required as an update on Hanford Site activities performed in support of the FFCA.
PBS Mission Completion	PBS-MC-038					Y					Administrative input to document the start of this PBS.
PBS Project End	PBS-PE-038				Y						Administrative input to document the mission completion of this PBS.
											Administrative input to document the project end of this PBS.