

Section I

Support

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SUMMARY

Mission Support, Project Baseline Summary (PBS) OT01, consists of four sub-projects:

- Planning and Integration [Work Breakdown]
- Structure (WBS 1.8.2.1)]
- Systems Engineering (WBS 1.8.2.2)
- Environmental Compliance (WBS 1.8.2.3)
The Environmental Compliance Program is composed of two elements. These two elements were stand-alone programs known as the Hanford Environmental Management Program (HEMP) and the Effluent and Environmental Monitoring Program (EEM) prior to FY99. Although there is a single program, these elements retain their identity on the Integrated Priority List as two separate Units of Analysis.
- Public Safety and Resource Protection (WBS 1.8.2.4)

In addition, Richland Directed Activities, PBS OT04, is included in this section. It consists of general site requirements such as:

- Resource Conservation and Recovery Act [RCRA] Mixed Waste Fee (management fee)
- Department of Health (DOH) Oversight (air monitoring)
- Downwinder Litigation
- Permits/site support [State of Washington (air emissions program)]
- Emergency Preparedness Grants
- State of Oregon Hanford Oversight
- Payment in Lieu of Taxes
- Hanford Advisory Board/Miscellaneous Grants (Hanford Openness Panel)
- Uranium Mass Balance Project (Paducah)
- National Security Analysis (formerly declassification of documents)
- Other minor financial assistance grants and contracts.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of September 30, 2000. All other information is as of October 25, 2000 unless otherwise noted.

Project Controls

Top 5 Accomplishments for FY 2000

- Coordinated and submitted Fluor Hanford Project data for Budget Formulation (IPL, PPLs and PBSs), Schedule Options Study support, and Summary Schedule (includes FH, BHI, and PNNL Projects) (Progress).
- Supported significant integration activities such as Budget Formulation (IPL, PPLs and PBSs), Schedule Options Study, and Summary Schedule (includes FH, BHI, and PNNL Projects) (Progress).

- Developed, implemented and managed a process to analyze project performance and cost trends via Fiscal Year Spend Forecast to allocate funds to key clean-up activities and maintain funds within Budget & Reporting control points (Progress).
- Delivered FY 2001 MYWP Updates electronically (Progress).
- Coordinated Performance Management Meetings (Progress).

Additional FY 2000 Accomplishments

Progress

- Transitioned from Hanford Site Performance Report to Environmental Management Performance Report (EMPR).
- Completed ISMS verification.
- Implemented Project Execution Module to incorporate a significant change in DOE-HQ reporting requirements.
- Completed Business Management Oversight Process (BMOP) plan and approach.
- Aligned monthly reports to Site Critical Outcomes.
- Active and driving participant in 10% base operations reduction.
- Actively involved in range fire recovery cost analysis.
- Maintained Business Management Systems for Hanford Site such as HANDI, IPARS, IPABS, P3, and PERF.
- Maintained configuration management for Baseline Change Requests for Flour Hanford.
- Submitted execution year performance data via IPARS to DOE-HQ on a monthly basis.

Systems Engineering and Integration (SE&I)

Top 5 Accomplishments for FY 2000

- Supported the initiative (Schedule Options Study) to develop a viable technical, schedule, and cost baseline for achieving the Hanford Site Outcomes. SE&I provided technical baseline information and analyses to support the selection of a preferred option. SE&I also supported several "sub-teams" in developing additional details on specific project level initiatives (Progress).
- Supported the FH initiative (Requirements Initiatives Integration Team [RIIT]) to find at least \$30M in efficiencies in base operations costs to allow RL to fund critical work in FY 2001 and FY 2002. This initiative has currently found over \$17M in efficiencies (Progress).
- Supported the FH Accelerating Cleanup Team in developing studies for the 300 Area, the Spent Nuclear Fuels Project, and the Nuclear Material Stabilization Project (Progress).
- Worked with the FH projects to improve and maintain the Hanford Site Technical Baseline Database (HSTD). The HSTD is used to provide integrated technical information for several DOE products including IPABS-IS, Multi-Year-Work-Plans, Hanford Site Environmental Management Specification, HANDI, and etc (Progress).
- Lead a workshop on a functional analysis of Long Term Resource Management at Hanford (Progress).

Additional FY 2000 Accomplishments

Progress

- Site Level Analyses and Models were used to provide a forecast on the Hanford Site population (by geographic region and by type of work) that tied to the Site Baseline Plans.
- Worked with FH Projects, DynCorp, and BHI to integrate the Waste Site and Facility responsibility assignments. Several corrections were made to various systems that were used to feed the IPABS-IS.
- Supported Chemical Management Program in evaluating various systems for managing chemical inventory on the Hanford Site.
- Developed a WEB page that demonstrates requirements traceability and flowdown. The WEB page has links to several other WEB sites as well.

Environmental Compliance Program (ECP)

Top 5 Accomplishments for FY 2000

- FH proactively maintained compliance with all applicable federal, state, and local environmental statutes and regulations. FH developed permitting and regulatory documents including 4 Resource Conservation and Recovery Act of 1976 (RCRA) Permit Class I Modifications, issued monthly NPDES Reports, lead development of the Hanford Air Operating Permit Supplement Package Application, and issued the 222-S, Part B Application.

Fifty-nine written enforcement actions were input into the Environmental Action Tracking System (EATS) Database. Forty-two have been completed and nine have been closed. More than 30 potential regulatory compliance issues were identified and analyzed. Nine regulatory analysis memorandums were developed to ensure the consistent compliance with regulations across the multiple FH Projects. FH coordinated and supported 50 regulatory inspections and responded to regulator requests. FH acted as the single point of contact for spill and release reporting for all site contractors.

Hanford Site environmental monitoring and reporting was performed for such activities as radioactive discharges, emergency and hazardous chemical inventory, radionuclide air emissions and toxic chemical releases; and six mandated regulatory reports were completed to keep the regulators informed of the status of FH's compliance with the regulations.

Annual site-wide environmental reports were prepared with data compiled from all prime contractors and delivered for issuance to the regulators well before the date required by the regulations.

The National Emissions Standards for Hazardous Air Pollutants reports were provided quarterly as required by the Federal Facility compliance Agreement identifying compliance activities completed during the previous quarter.

To assure that employees are informed of environmental regulations and their maintenance requirements, the NEPA Source Guide was updated and provided to the Site. FH also maintained the TPA database and public repository information for site use in assuring compliance.

The Environmental Action Tracking System was improved with changes such as a warning system, reformatted report, and revised desk instructions. This system provides the site with a tool that ensures that regulator requests are responded to on time (Progress).

- Forty enforceable TPA milestones were planned in FY 2000 and all forty were completed with 13 being completed ahead of schedule. A TPA change was also successfully negotiated to meet Ecology's regulatory compliance expectations for the Plutonium Finishing Plant repackaging of Rocky Flats ash efforts. The resolution of this compliance issue ensured support for project acceleration (Progress).
- FH established the infrastructure for the Chemical Management Program that includes all facilities, Industrial Hygiene, Hanford Fire Department, Material Safety Data Sheets (MSDS), Emergency Response, Pollution Prevention, Procurement, and Quality Assurance. This allows for a more structured management of the site's chemicals (Progress).
- Timely Support was provided during and after the Hanford fire by collecting air sample filter data and analysis information. Support was also provided for regulator inspection of impacted waste sites. In addition, the RCRA contingency plan 15-day report was submitted to Ecology as required (Progress).
- At the January 5, 1999 Routine Technical Assistance Meeting (RTAM) with the DOH, ES obtained approval of a revision to the Central Waste Complex (CWC) radiation air Notice of Construction (NOC). The revision allows for a reduction of the number of required smears of NucFil filters, saving the project \$25K to \$30K per year (Progress).

Additional FY 2000 Accomplishments

Progress

- Completed on or ahead of schedule six (6) mandated Regulatory Reports on Hazardous Chemicals and Dangerous Waste management activities as required under EPCRA Subtitle B, WAC 173-303, and TSCA.
- Completed and submitted per revised schedule the Annual LDR Report required under TPA Milestone M-26-01.
- Prepared and issued Reports for Anticipated Costs of TSD Units Closure and Post-Closure Activities.
- Prepared and issued Annual Reports for Hanford Site Environmental Releases, Radionuclide Air Emissions, and PTRAEU & HVU Activities, and Quarterly Status Reports for NESHAP Activities.
- Provided Mid-Year Status Reports for NEPA activities on or ahead of schedule.
- Compiled and issued all monthly NPDES Reports on schedule.
- Completed all Quarterly RCRA Permit Class I Modifications on or ahead of schedule.
- Led Hanford Site activities for development and administration of the Hanford Air Operating Permit Application.
- Prepared and delivered the Hanford Site Air Operating Permit Application Supplement to RL.
- Revised and submitted five (5) RCRA Part A, Form 3 Permit Applications.

Section I – Mission Support

- Issued a Part B Application for 222-S that is tailored to become the model for future Hanford Site Part B Permit Applications.
- Supported preparation and issuance of the “working draft” RCRA Part B Permit Application for LLBG and T Plant.
- Coordinated strategy development, supporting data, and sitewide comments to prepare for a potential appeal of Modification E Revision to the Hanford Site RCRA Permit.
- Prepared and delivered the Hanford Air/Water Permitting Schedule.
- Provided Support for 111 Facility Inspections and 22 Facility Assessments throughout the year.
- Provided Interpretative Authority for Regulatory Analysis and Review of Proposed Rulemaking and for Environmental Compliance Issues Resolution.
- Prepared several NEPA Supplemental Analyses, which have allowed PFP stabilization activities to continue on schedule.
- Prepared the Surplus Uranium NEPA Environmental Assessment, which resulted in a Finding of No Significant Impact in June 2000.
- Prepared and submitted the DOE Order 435.1 Implementation Plan on schedule.
- Prepared for submittal ORP eight (8) Air Notices of Construction.
- Established an Environment & Regulation Web Page to disseminate numerous Environmental Laws, Regulations, Policies, Procedures, and Contractual Provisions.
- Completed Staff Training on ISMS Core Functions and Guiding Principles
- Supplied a technical expert on radiological air emissions for the DOE Germantown, MD office in the ES&H investigation of their DOE facilities in Oak Ridge, TN and Paducah, KY.
- Sitewide input for the Class 1 modifications of the HF RCRA Permit and for the Hanford Facility Dangerous Waste Permit Application, General Information Portion DOE/RL-91-28 was coordinated.
- Responses to the LDR Final Determination, TPA M-32 Administrative Order, EPA Multi-Media Inspection Compliant, and other regulatory and compliance analysis to support formal compliance actions were provided to legal councils and projects.
- Recovery actions for the WSCF Test Method deviation issue and associated sitewide impacts, including:
 - issued two status updates for the RCRA Focus Action Plan
 - completed sitewide sample-by-sample impact review
 - attended response team meetings/briefings
- Twenty Regulatory Environmental Issues Management List (REIML) issues including: tank integrity assessments; the TPA Milestone M-32-00 dispute; groundwater; RCRA Corrective Action; Land Disposal Restrictions, and Hanford Facility RCRA Permit conditions were prepared and reviewed. The REIML is a tool to identify and communicate environmental compliance issues for negotiation with the regulators.
- Provided clarifications to benefit facilities regarding Toxic Substances Control Act, including lack of a requirement from EPA on the management of low concentrations (<50ppm) of PCBs.
- A Hanford sitewide comment package was coordinated, developed and submitted on the State Dangerous Waste Amendments.
- Coordination for non-reportable and reportable releases of a hazardous substance and/or a petroleum product released to the environment continued throughout the year.

- All Environmental Protection procedures were updated to reflect new and revised requirements as well as FH organizational changes.
- The Nuclear Materials Stabilization project requested review and comment on an exemption request for a waste stream under the Dangerous Waste Regulations, WAC 173-303 for a state-only corrosivity waste code (WSC2). Commented on the exemption and cautioned that an additional waste code, state-only toxicity (WT02) should also be considered for the exemption request.
- Regulatory analysis and document preparation associated with Plutonium Finishing Plant efforts in interfacing with Ecology concerning the effort to start “pipe and go” activities of Rocky Flats Ash by September 5, 2000 were supported.
- Communications between WDOH, DOE-RL, and facilities/projects including PFP, WSCF Laboratory, and T Plant regarding compliance questions, strategies, and permitting associated with radioactive air emission compliance were facilitated.
- Coordination for Ecology Air technical assistance proposal/workshops and for first technical assistance visits was provided.
- RCRA contingency plan issues were coordinated with Emergency Preparedness in order to resolve Ecology concerns. This effort resulted reaching an agreement to close out many issues remaining from the Plutonium Reclamation Facility (PRF) explosion compliance inspection.
- Revisions to all the PHMC Environmental Protection Performance Objectives and Criteria were completed. These HNF-IPs will be used for the Facility Evaluation Board and other environmental assessments. The revisions include regulatory updates as well as incorporate ISMS requirements.

Public Safety and Resource Protection (PSRP)

Top 5 Accomplishments for FY 2000

- Significant progress was made towards the management and protection of the Hanford Site natural and cultural resources through the revision of the Biological Resources Management Plan (BRMaP) and completion of the draft Hanford Cultural Resources Management Plan. Implementation of BRMaP was initiated during the year. Both these resource management plans are critical to the protection of Site resources and will be instrumental in assuring the requirements associated with the Hanford Reach National Monument designation will be met. (Momentum).
- PS&RP staff played a major role during the fire that consumed approximately 150,000 acres of the Hanford Site in late June. Staff provided key meteorological support to emergency response and fire-fighting teams during the event. In addition, staff provided critical air sampling support and geological, ecological, and cultural resource information during immediate follow-up and damage assessment activities. Recovery activities include the collection of additional air, soil, and agricultural product samples, ecological surveys, and the replacement of damaged air sampling and meteorology equipment. In addition, plans for reclamation of burned mitigation sites and further resource (cultural and natural) protection were developed. Since the fire, remote sensing and GIS (Geographic Information System) analyses of the burn have been ongoing. Planning for roadside firebreaks was initiated late in FY 2000 and work will continue into FY 2001 to support DOE on technical aspects of firebreak construction and management. In August, the PS&RPP received a directive from DOE-RL to take prioritized, immediate steps to protect public and employee safety, and rehabilitate critical

biological resources and protect cultural resources damaged in the 2000 Hanford wild land fire. Cost estimates were prepared for the response to and recovery from the Hanford fire and provided to DOE-RL. An initial \$75,000 to cover the cost of these activities was distributed to PNNL from PBS RL-TP13 in the August financial plan. Staff members initiated steps to respond to this directive. Appropriate actions, as agreed upon with DOE-RL to fulfill the directive, will be completed in FY 2000 (Progress).

- PS&RPP staff was recognized in May for their efforts during the elk relocation that was conducted in March 2000 with Outstanding Performance Awards. The PS&RPP provided radiological and sample collection support, resources to support the helicopter round-up activity, and Site institutional knowledge relative to elk behavior during the cooperative relocation effort that included the U.S. Fish and Wildlife Service, Washington Department of Fish and Wildlife, and U.S. Department of Energy (Progress).
- In fulfillment of a DOE policy to conduct periodic (every three years) validation reviews of multi-year work plan (MYWP) baseline cost estimates, a review of the PS&RPP FY 2000 MYWP was initiated by the U.S. Army Corps of Engineers, November 15 and 16, 1999. The Corps review also includes the Environmental Management Program operated by Fluor Daniel Hanford. Several PS&RPP staff provided varying levels of support during the November 15th and 16th effort, which essentially completes the PS&RPP component of the review. Preliminary discussions with the Corps indicate that there seem to be few issues to resolve on the PS&RPP MYWP, and that "PNNL was very helpful, knowledgeable and informative." The validation review concluded that the funding for PS&RPP was consistent with the scope of work defined.
- The Hanford Meteorology Station switched to a personal computer (pc)-based computer network for gathering and processing all of the data from the Hanford Meteorological Monitoring Network and other data acquisition activities during December. This system consists of five networked personal computers each with a specific data collection and processing function. Identical data files exist on several of the computers for redundancy. The transition from the IBM RISC/6000 to the pc-based system was seamless, with no interruption in the data gathering process. There is a significant annual cost savings in the pc-based versus the IBM RISC system. MetView (meteorological data viewing) and APGEMS (Air Pollutant Graphical Environmental Modeling System) software was installed on the HMS computer systems during May. These two software packages were developed for use in the Emergency Operations Center. Some HMS-specific modifications to the MetView software were made to make the program more usable to operational meteorologists (Progress).

Additional FY 2000 Accomplishments

Progress

- Cultural Resources Project staff completed the Gable Mountain survey during April. This joint tribal survey was conducted in conjunction with the Hanford Cultural Resources Laboratory and represented the first survey conducted of a sacred site. The approach used, which was developed by the tribal partners, will serve as a model for future surveys of sacred sites.
- The final FY 2001 Multi-Year Work Plan (MYWP), PNNL-931-8B and associated Baseline Change Request bridging the FY 2000 MYWP to the FY 2001 MYWP were submitted to RL for approval on August 30, meeting a Key program milestone (RLOT014001). The program funding to be authorized for FY 2001 totals \$6,605K.

All inputs used to feed the new electronic version of the program's FY 2001 Multi-Year Work Plan (MYWP) were provided to the Fluor Hanford, Inc. (FH) database source systems as required by the baseline updating guidance. The inputs included updated MYWP technical narratives; the program's lifecycle cost profiles, milestones, and schedule; and updated Performance Objectives, Measures, and Expectations (POMES).

- All projects within the PS&RPP successfully weathered the transition into the year 2000 without any significant Y2K bugs. Several precautionary activities were conducted in anticipation of potential problems and program activities continued into CY 2000 seamlessly.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that 48 of the 52 milestones (92 percent) were completed on or ahead of schedule and four milestones (8 percent) were completed late. The Milestone Achievement details, found following cost and schedule variance analysis, provide further information on all milestone types.

ACCOMPLISHMENTS THIS REPORTING PERIOD

Project Controls

- Coordinated and submitted Fluor Hanford Project data and provide significant support to integration activities such as Budget Formulation (IPL, PPLs and PBSs), Schedule Options Study, and Summary Schedule (includes FH, BHI, and PNNL Projects).
- Developed, implemented and managed a process to analyze project performance and cost trends via Fiscal Year Spend Forecast to allocate funds to key clean-up activities and maintain funds within Budget & Reporting control points.
- Conducted monthly Performance Management Meetings aligned to the Site Critical Outcomes with joint RL/contractor participation utilizing the workshop environment to enhance site communication and round table discussions including topics such as recognition of significant achievements, risk management (early warnings), issues, barrier mitigation and opportunities/breakthroughs.
- Completed milestone, SPI-00-002, Assure delivery of FY 2001 MYWP Updates to RL, on September 22, 2000.
- The deliverable, Monthly EMPR was delivered on September 29, 2000
- The deliverable, Submit Updated 1.8.2.1 MYWP of Final Review/Approval was submitted on September 22, 2000.

Systems Engineering and Integration

- Worked on an initiative to align the Project Baseline Summaries (PBS) and Work Breakdown Structure (WBS) to the Hanford Outcomes. This work is providing the framework for the Hanford Site Requirements Document that is being developed by RL with support from SE&I.
- Supported a DOE-HQ workshop on the Stream Disposition Data. The workshop initiated efforts to improve the process and the Integrated Planning, Accounting, and Budgeting System - Information System (IPABS-IS). The results will be incorporated into the HQ budget guidance that will be issued Spring FY 2001.
- Met the BMOP expectations by maintaining the HSTD accuracy at > 99% and preparing 5 Systems Engineering procedures for approval.

Environmental Compliance

Chemical Management

- The annual briefing to DOE on the status of the Chemical Management Program (CMP) was presented on September 21, 2000. This briefing satisfies section 5.8 of the Chemical Management Requirements document. DOE had several requests for information, which are currently being gathered.

National Environmental Policy Act of 1969 (NEPA)

- The Environmental Compliance Program NEPA activities report for FY 2000 and the update to the NEPA Source Guide were issued on September 27, 2000. The issue of these documents completed milestones ECP-00-202 and ECP-00-203 three days ahead of schedule.

Air Compliance

- Plans for obtaining the Categorical Air Permit were implemented on September 28, 2000. This completed milestone ECP-00-407 two days ahead of schedule.
- A meeting was held with Washington Department of Health (WDOH) personnel in Olympia on September 19th and 20th, which addressed Hanford Site comments on emission source listings contained in the preliminary draft of the Air Operating Permit.
- A meeting was conducted with the Hanford Site Central Environmental Committee and the FH Environmental Center of Expertise (ECO) to discuss the WDOH order received in September 2000. The order requires that differential pressure gauges used in conjunction with Hanford radiation air abatement systems be annually calibrated or functionally tested, and that lists of these gauges be provided to WDOH by the end of October 2000. The ECOE has proposed that the Hanford Site respond to the WDOH order by providing a list of DP gauges. The list should be broken down into three categories: gauges currently on an annual calibration/functional testing schedule, gauges that will convert over to this schedule, and gauges whose schedules will be negotiated with WDOH. A draft response letter reflecting the ECOE has been prepared and distributed for review by affect parties. A “white paper” has also been prepared that evaluates the issue and the possible regulatory bases for WDOH’s position.
- ES prepared, for internal review, a draft categorical Notice of Construction (NOC) to allow for pre-approved entry and surveillance activities in facilities throughout the Hanford Site. In support of this draft, a unit curie offsite dose information was obtained from PNNL, for worst-case releases from each of Hanford's operating areas. One FH facility has already expressed interest in possible use of the NOC for coverage of some planned entry and surveillance activities.

RCRA Permit

- A response was prepared to an Ecology letter requesting additional information for permitting documentation supporting Modification F of the Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit. Ecology requested the additional information by October 11, 2000, to perform a completeness review of documentation supporting Modification F of the Hanford Facility RCRA Permit. The additional information pertained to the Hanford Facility Dangerous Waste Permit Application, 222-S Laboratory Complex, Part A, Form 3, Revision 8 and Part B, Revision 1 (WA7890008967); and Hanford Facility Dangerous Waste Permit Application, General Information Portion, DOE/RL-91-28. The requested information was transmitted to Ecology on October 10, 2000.
- Ecology stated in the September 2000 Permit Steering Committee meeting that Ecology plans to issue Revision 7 of the RCRA Permit incorporating Modification E by the end of the calendar year. Modification E includes the Central Waste Complex (CWC) and the Waste Receiving and Processing (WRAP) Facility. It was informally proposed to Ecology that the agency incorporate lessons learned from the 222-S Part B permit negotiations into the CWC and WRAP portions of the RCRA Permit. This would further delay issuance of Modification E, but would benefit both facilities. Ecology is considering the proposal and a response is anticipated by the end of October 2000.
- Hanford Facility RCRA Permit requirement, Part II.U.3., requires that piping schematics for dangerous waste underground pipelines shall be maintained in the Facility Operating Record and updated annually, after the initial submittal, with new or revised information. The annual RCRA Permit mapping and marking update information for the Hanford Site was completed on September 14, 2000. This completed milestone ECP-00-703 one week ahead of schedule.

RCRA Permit Revision and Implementation

- Environmental Services (ES) supported a meeting on revising Building Emergency Plans (BEP) for final status units. ES facilitated the resolution of issues with BEPs and completed baseline BEPs for LERF/ETF and 242-A Evaporator. The new approach will require a review of BEPs when DOE/RL-92-04 is modified. The *Hanford Emergency Management Plan*, DOE/RL-92-04, is included as Attachment 4 to the Hanford Facility Dangerous Waste (RCRA) Permit. If Permit modification forms are required for a DOE/RL-94-02 revision and the revision effects BEPs, permit modification forms will also be completed/submitted for the BEP for each final status TSD unit. Previously when DOE/RL-94-02 was revised, the tiers down documents were not reviewed for impacts.
- ES supported meetings/preparation of the new Chapter 8's (training) for final status units for inclusion into the Class 1 modification package.

Inspections/Assessments

- Regulatory inspections/assessment support was provided at the following facilities:
- On June 14, 2000 the State of Washington Department of Ecology started an assessment of the Plutonium Finishing Plant (PFP). The Department of Ecology completed their assessment on

Section I – Mission Support

September 7, 2000. The purpose of their assessment was to determine a baseline of information from which to determine if waste management at PFP was adequate, if all waste streams had been identified, and to support transition of PFP to a deactivated status.

- On September 27, 2000, inspectors from the EPA and the State of Washington Department of Ecology (Ecology) performed an inspection of pre-selected non-regulated waste streams at Hanford. The waste streams were located in three different locations and were being collected in 55-gallon drums with "non-regulated" waste labels affixed to them. The inspectors provided each facility representative with a "checklist" detailing any concerns or corrective actions necessary. They inspected 4 drums at the new HEHF Annex (2917-WB) building in the 200 West Area, 3 drums at U-Plant, 1 drum and a locked fenced area that contained other recycled waste at T-Plant. The inspectors also visited and toured the Consolidated Centralized Recycle Center in the 400 Area.
- On September 27, 2000, inspectors from the EPA and Ecology performed a follow-up inspection of the 2714-U waste drums stored at the T Plant Complex. The inspectors met with the ECO and performed a walkthrough of the Mixed (Radioactive) Waste Storage Pad and the 217-T hazardous waste storage building.
- On Tuesday, October 3, 2000 the Washington State Department of Health (WDOH) visited the 222-S Laboratory to gain a status of the cracking that is occurring on the main stack.
- ES performed environmental compliance assessments at the following facilities:
 - 310/340 Complex
 - 324/327 Facility
 - 200 Accelerated Decommissioning Project facilities
 - 300 Accelerated Decommissioning Project facilities
 - CWC Complex (sodium)

Crosscutting Compliance/Issue Resolution

- Land Disposal Restriction (LDR) compliance activities continued during the month. Comments were received from Ecology on the Interim LDR Report for 2000, and a response from Ecology was received on alleged violation #4. A strategy for Interim 2000 LDR Report comments is being prepared and verbal agreement was obtained from Ecology on the response to alleged violation #4 in order to close the compliance action.
- ES coordinated the compilation and verification of the status concerning the 'Silver List' close-out forms in response to an Ecology request. Initiated in about 1995, the (Dan) Silver List closeout forms identify environmental compliance items and provide documentation of their resolution that might not otherwise exist to support agreement with the regulators.
- Environment and Regulation (E&R) prepared the regulatory basis for and was involved in a discussion with the EPA (September 28, 2000) on the continuation of interim status at Hanford.

Project Support (ECP funded)

- The River Corridor Project requested help in preparing the quarterly Class 1 Permit Modifications for the PUREX Storage Tunnels Part A Permit Application. Changes were proposed and processed in the package transmitted. The training modifications for all final status units were also prepared and included in this quarters Class 1 Quarterly Permit Modification package.

- Environmental function support continued at Plutonium Finishing Plant (PFP) in interfacing Ecology on regulatory matters concerning the transition of PFP to slab on grade, and in developing a response to the Washington State Department of Ecology letter dated September 7, 2000 concerning Ecology's Plutonium Finishing Plant Assessment Report.

Environmental Notifications and Reporting

- Regulatory reporting was coordinated for fourteen (14) non-reportable releases of a hazardous substance and /or a petroleum product released to the environment. All of these releases were cleaned up and disposed of per state and federal requirements. There were no reportable events, with a release to the environment, three (3) reportable code non-compliance events reported directly to the regulators, and one (1) event, which required a notification to the regulators per a regulatory agreement letter.

PUBLIC SAFETY AND RESOURCE PROTECTION (PSRP)

- PS&RPP staff made two presentations to DOE-RL mid- and top-level management during September. The presentations provided program and project overviews and FY 2000 accomplishments.
- Ecosystem Monitoring Project staff completed the following report: Tiller, B.L., L.L. Cadwell, R.K. Zufelt, L. Bender, F. Turner, and G.K. Turner. 2000. "Population Characteristics and Seasonal Movement Patterns of the Rattlesnake Hills Elk Herd - Status Report 2000." PNNL 13331, Pacific Northwest National Laboratory, Richland Washington.
- *Hanford Site Environmental Report 1999* was printed and distributed to RL and the public the last week of September, thus fulfilling FO Milestone RLOT013003 "Annual Environmental Report to RL and the Public."
- "Collect FY 2000 Environmental Samples in Accordance with Environmental Surveillance Master Sampling Schedule for CY 1999 and CY 2000 and the Surface Environmental Surveillance Procedures Manual" was completed by 09/30/00, thus fulfilling PNNL Key Milestone RLOT013001 on schedule.
- Project staff (along with the other PS&RPP projects) provided a SESP overview to DOE-RL Office of Site Services staff September 8, and DOE Hanford Site managers, September 22, on site surveillance.
- The final copy of Rev 12 of the *NEPA Characterization Document* was completed and distributed by 09/29/00. Hard copies were produced as well as electronic copies (placed on a Compact Disc). Rev 12 is being placed on the Ecology and NEPA websites at PNNL. This completes PNNL Key Milestone RLOT014002, "NEPA Characterization Document (Rev. 12) Issued by PNNL."
- The Draft Hanford Cultural Resources Management Plan was delivered to DOE-RL on September 29, fulfilling RL Milestone RLOT015004.
- The *History of the Plutonium Production Facilities at the Hanford Site Historic District, 1943-1990* was delivered to DOE-RL on September 29, fulfilling RL Milestone RLOT015003, "Complete Hanford Site Historic District Book".

ISMS STATUS

Nothing to report at this time.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Nothing to report at this time.

UPCOMING ACTIVITIES

- Revision 3 of the Hanford Site Environmental Monitoring Plan (DOE/RL-91-50), which is revised every 3 years, is scheduled for completion and distribution in November 2000.
- The Annual Benton County Air Authority (BCAA) Asbestos Notification is due December 31, 2000.
- The Quarterly RCRA Permit Class I Modification Notification is due January 2, 2001.
- The Quarterly NESHAPs Status report is due January 29, 2001.
- The Annual Dangerous Wastes Reports and Tier II Emergency and Hazardous Chemical Inventories are due February 21, 2001.
- Ecology has again delayed issuance of Modification E of the Hanford Facility RCRA Permit (will incorporate WRAP and CWC units), and is now projecting this will occur after January 1, 2001. It has been proposed to Ecology that some of the positive permitting agreements that came out of the recent 222-S Part B Permit application workshops be considered in permit conditions prepared for Modification E. To date, Ecology has stated it will consider only the 222-S agreements in finalizing Modification E.
- Environmental Services will compile hazardous chemical information from the Hanford facilities to prepare the Tier Two Emergency and Hazardous Chemical Inventory Report, which is due February 21, 2001 (Milestone ECP-01-501).
- Environmental Services will compile the dangerous waste generation and waste management activities on site for the Hanford Annual Dangerous Waste Reports, which are due February 21, 2001 (Milestone ECP-01-503).
- The annual Surface Environmental Surveillance Project design review process has been initiated and will culminate with the revision and distribution of the “CY 2000 Hanford Site Environmental Surveillance Master Sampling Schedule” by the end of February 2001.
- Summaries of CY 2000 Biodiversity Plot Monitoring Data and the Sage Brush Die-Off observed during the previous fiscal year will be completed during March 2001.
- The annual “Climatological Data Summary Report for CY 2000” is scheduled for completion and distribution by the end of May 2001.

COST PERFORMANCE (M):

	BCWP	ACWP	VARIANCE
Mission Support 1.8	\$24.7	\$25.2	-\$0.5

The \$0.5 million (2 percent) unfavorable cost variance is due to several factors. Further information at the PBS level can be found in the following Cost Variance Analysis details.

SCHEDULE PERFORMANCE (M):

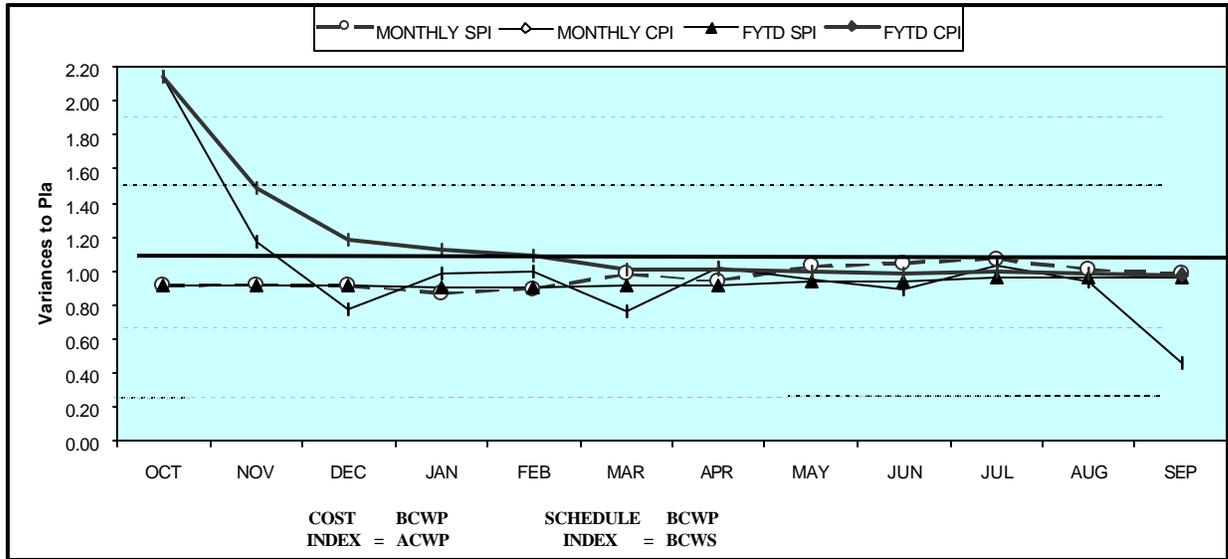
	BCWP	BCWS	VARIANCE
Mission Support 1.8	\$24.7	\$25.5	-\$0.9

The \$0.9 million (3 percent) unfavorable schedule variance is due to several factors. Further information at the PBS level can be found in the following Schedule Variance Analysis details.

FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES **CUMULATIVE TO DATE STATUS – (\$000)**

By PBS		FYTD						
		BCWS	BCWP	ACWP	SV	%	CV	%
PBS OT01	Mission							
WBS 1.8.2	Support Other MYPs	\$ 25,536	\$ 24,663	\$ 25,207	\$ (873)	-3.4%	\$ (545)	-2.21%
Total		\$ 25,536	\$ 24,663	\$ 25,207	\$ (873)	-3.4%	\$ (545)	-2.21%

COST/SCHEDULE PERFORMANCE INDICES (MONTHLY AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.92	0.92	0.91	0.86	0.90	0.98	0.94	1.03	1.05	1.07	1.01	0.99
MONTHLY CPI	2.14	1.18	0.78	0.99	1.00	0.76	1.02	0.95	0.90	1.03	0.93	0.46
FYTD SPI	0.92	0.92	0.92	0.90	0.90	0.92	0.92	0.93	0.94	0.96	0.96	0.97
FYTD CPI	2.14	1.49	1.18	1.12	1.09	1.01	1.01	1.00	0.99	0.99	0.99	0.98
MONTHLY BCWS	\$1,848	\$2,071	\$1,576	\$2,309	\$1,858	\$2,209	\$1,996	\$2,070	\$1,509	\$1,771	\$2,083	\$2,069
MONTHLY BCWP	\$1,694	\$1,907	\$1,442	\$1,997	\$1,666	\$2,166	\$1,880	\$2,127	\$1,578	\$1,899	\$2,101	\$2,040
MONTHLY ACWP	\$792	\$1,620	\$1,852	\$2,022	\$1,668	\$2,837	\$1,852	\$2,241	\$1,762	\$1,835	\$2,252	\$4,473
FYTD BCWS	\$1,848	\$3,919	\$5,495	\$7,804	\$9,662	\$11,871	\$13,867	\$15,938	\$17,447	\$19,218	\$21,301	\$25,536
FYTD BCWP	\$1,694	\$3,601	\$5,042	\$7,040	\$8,706	\$10,872	\$12,752	\$14,879	\$16,457	\$18,356	\$20,456	\$24,663
FYTD ACWP	\$792	\$2,412	\$4,265	\$6,287	\$7,955	\$10,792	\$12,644	\$14,884	\$16,646	\$18,481	\$20,734	\$25,207

COST VARIANCE ANALYSIS: (\$-0.5M)

WBS/PBS

Title

1.8.2/OT01 **Mission Support**

Description/Cause: The \$0.5 million (2.2 percent) unfavorable cost variance is within acceptable reporting thresholds.

Impact: No impact.

Corrective Action: No corrective action required.

SCHEDULE VARIANCE ANALYSIS: (\$-0.9M)

WBS/PBS

Title

1.8.2/OT01 **Mission Support**

Description/Cause: The \$0.9 million (3.4 percent) unfavorable schedule variance is within acceptable reporting thresholds.

Impact: No impact.

Corrective Action: No corrective action required.

FUNDS MANAGEMENT
FUNDS VS SPENDING FORECAST (\$000)
FY TO DATE THROUGH SEPTEMBER 2000
(FLUOR HANFORD, INC. ONLY)

	Project Completion *			Post 2006 *			Line Items *		
	Funds	Actual Cost	Variance	Funds	Actual Cost	Variance	Funds	Actual Cost	Variance
Multiple Outcomes									
1.8 Mission Support OT01, OT04				\$ 17,652	\$ 17,060	\$ 592			
Inventory				\$ 7,267	\$ (172)	\$ 7,439			
Total Mission Support Operating				\$ 24,919	\$ 16,888	\$ 8,031			
Total Mission Support Line Item									

* Control Point

ISSUES

Baseline Updating Guidance (BUG) – Until RL provided formal response to several issues FH outlined in its July 18, 2000 letter to RL (Ref: FH-000359A R1, "Fluor Hanford Significant Issues with Baseline Updating Guidance"), FH was proceeding at risk with the recommendations proposed in the letter.

Corrective Action/Status – Issues were resolved via guidance letters and meetings with RL.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT \$000	SCH	TECH	DATE TO CCB	CCB APPROVD	PL APPROVD	CURRENT STATUS
SPI-2000-001	10/7/99	Addition of Paths to Closure Range Estimate	\$67						Approved
SPI-2000-002	10/22/99	FY 1999 Carryover Scope	\$248	X	X	2/3/00	2/3/00		Approved
SPI-2000-003	11/5/99	Baseline Modifications to Support Fiscal Year 2000 Multi-Year Work Plan Update	(\$923)			3/23/00	3/23/00	5/14/00	Approved
SPI-2000-006	2/17/00	Modeling Tool & IPL Module Scope Additions FY 2000	\$117	X	X	2/17/00	2/17/00	5/4/00	Approved
SPI-2000-007	4/28/00	10% Reduction to FY 2000 1.8.2.1 Baseline	\$675		X				Approved
PSR-2000-001		Alignment of Budget/Scope to Funding Allocation and Incorporation of FY 1999 Carry Over	\$193	X				5/4/00	Approved
PSR-2000-002	6/13/00	Incorporation of FY 1999 Carryover Funds to FY 2000 Scope	\$175			6/22/00	6/22/00	8/10/00	Approved
SSE-2000-001	10/6/99	FY 2000 Bridge Change Request	(\$88)			11/10/99	11/10/99	1/26/00	Approved
SSE-2000-002	10/18/99	FY 99 Carryover							RWOA-F
SSE-2000-003	1/31/00	Repricing Impacts to Baseline							Draft
SSE-2000-004	7/26/00	FY 2000 to FY 2001 BCR							draft
ECP-2000-001	11/15/00	Correctional/Alignment of ECP Milestones				11/30/99	11/30/99	1/26/00	Approved
ECP-2000-002	12/7/99	Remove Project W-420 from Environmental Compliance Program	(\$1,380)			1/5/00	1/6/00	2/11/00	Approved
ECP-2000-003	12/15/00	Utilization of ECP FY - 99 Uncosted Carryover	\$449						Draft
ECP-2000-004	2/15/00	Adjust Baseline to Final FY 2000 Funding Allocations and Change ECP-00-410 Milestone Date	\$161			4/7/00	4/7/00	5/10/00	Approved
ECP-2000-005	4/18/00	Change Due Date for ECP Milestone ECP-00-410				5/4/00	5/4/00	5/25/00	Approved
ECP-2000-006	5/2/00	Rebuild Automated Bar Coding of Air Samples at Hanford (ABCASH) System	\$193	X					Draft
ECP-2000-007	5/15/00	Change Level and Type of Environmental Compliance Program(ECP) Milestones				5/31/00			Approved
FH-2001-001	9/12/00	Base Ops Reduction for PHMC Projects	-\$535		X				Draft Prepared
FH-2001-002	9/25/00	FY2001 Fee Reduction to 90%	-\$129						Draft

MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	22	3	0	0	0	0	0	25
DOE-HQ	0	1	0	0	0	0	0	1
RI	15	7	4	0	0	0	0	26
Total Project	37	11	4	0	0	0	0	52

Only TPA/EA milestones and all FY 2000 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY 2000 TPA/EA milestone achievement and a Milestone Exception Report follows. The last milestone table summarizes the FY 2001 TPA/EA milestones.

FY 2000 Tri-Party Agreement / EA Milestones			
Number	Milestone Title	Baseline Date	Actual Completion Date/Status
ECP-00-302	RCRA Permit Class 1 Mod Notification Quarter 1 (For Year 2000-2046)	10/01/1999	09/30/1999
ECP-00-702	RCRA RPTS/DOCS Closure/Post Closure Cost Est. to RL	10/22/1999	10/06/1999
ECP-00-901	Issue 1st Quarterly NESHAP Status RPT to RL for EPA	10/22/1999	10/20/1999
ECP-00-705	RCRA Reports/Docs-Annual Permit Status Report – INEL	12/01/1999	11/29/1999
ECP-00-508	RCRA Section 3016 Report (Hazardous Waste Facility)	12/06/1999	11/29/1999
EPC-00-306	Annual Asbestos Notification of Intent (For Year 2000-2046)	12/31/1999	12/14/1999
ECP-00-303	RCRA Permit Class 1 Mod Notification Quarter 2 (For FY 2000-2046)	01/01/2000	12/16/1999
ECP-00-902	Issue 2nd Quarterly NESHAP Status RPT to RL for EPA	01/28/2000	01/17/2000
ECP-00-701	Annual Noncompliance Report to RL	02/17/2000	02/09/2000
ECP-00-503	1999 Hanford Site Annual Dangerous Waste Report (FY 2000-2046)	02/22/2000	02/22/2000
ECP-00-501	Tier II Emergency & Hazardous Chemical Inventory	02/23/2000	02/23/2000
ECP-00-003	Biennial Assess. Of Info. & Data Access Needs EPA/ECO (2000-2046)	03/31/2000	03/06/2000
ECP-00-801	Transmit EIS/ODIS Data to INEEL (FY 2000-2046)	04/01/2000	03/31/2000
ECP-00-802	Issue Annual Non-Radioactive Airborne Emissions Report (FY 2000-2046)	04/01/2000	03/31/2000
ECP-00-304	RCRA Permit Class I Mod Notification Quarter 3 (For FY 2000-2046)	04/02/2000	3/29/2000

PHMC Environmental Management Performance Report – November 2000
Section I – Mission Support

FY 2000 Tri-Party Agreement / EA Milestones			
Number	Milestone Title	Baseline Date	Actual Completion Date/Status
ECP-00-904	Issue 3rd Quarterly NESHAP Status Report To RL for EPA	04/21/2000	04/04/2000
ECP-00-307	Submit Implementation Plan	05/15/2000	05/15/2000
ECP-00-803	Issue Annual Radionuclide Air Emissions Report (For FY 2000-2046)	06/15/2000	06/15/2000
ECP-00-410	Annual PTRAEU Report to DOE-RL (For FY 2000-2046)	6/15//2000	06/14/2000
ECP-00-502	EPCRA Section 313 Toxic Chemical Release Inventory	06/23/2000	06/21/2000
ECP-00-504	Annual PCB Document Log – June	06/23/2000	06/22/2000
ECP-00-305	RCRA Permit Class I Mod Notification Quarter 4 (For FY 2000-2046)	07/02/2000	06/26/2000
ECP-00-507	Annual LDR Report (M-26-01)	07/21/2000	07/21/2000
ECP-00-906	Issue 4th Quarterly NESHAP Status Report to RL for EPA	07/28/2000	07/05/2000
ECP-00-804	Annual Report on Environmental Releases	08/31/2000	08/30/2000
ECP-00-703	Coordinate RCRA Pipe Mapping and Marking (For FY 2000-2046)	09/21/2000	09/14/2000
ECP-00-704	Submit Revision of 91-28	09/30/2000	08/29/2000
ECP-00-301	RCRA General Facility Inspections (For FY 2000-2046)	09/30/2000	09/28/2000
DNFSB Commitments			
	Nothing to report at this time.		

MILESTONE EXCEPTION REPORT

OVERDUE – 0

FORECAST LATE – 0

FY 2001 Tri-Party Agreement / EA Milestones			
Number	Milestone Title	Baseline Date	Actual Completion Date/Status
ECP-01-901	Issue Quarterly NESHAP Status Report to RL for EPA	10/20/2000	
ECP-01-902	Issue Quarterly NESHAP Status Report to RL for EPA	1/29/2001	
ECP-01-904	Issue Quarterly NESHAP Status Report to RL for EPA	4/2/2001	
ECP-01-906	Issue Quarterly NESHAP Status Report to RL for EPA	8/31/2001	

DNFSB Commitments			
	Nothing to report at this time.		

PERFORMANCE OBJECTIVES

Nothing to report at this time.

KEY INTEGRATION ACTIVITIES

Specific components of the PS&RP Program are identified as a critical core project within the Groundwater/Vadose Zone Integration Project. As such, key activities relevant to both programs were integrated into FY 2001 detailed work plans as appropriate.