

Site Integration and Infrastructure

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OVERVIEW

Site Integration and Infrastructure consists of Project Baseline Summary (PBS) Safeguards and Security (PBS RL-SS-D); Hazardous Materials Management and Emergency Response (HAMMER, PBS RL-SS05) and Site Systems and Regulatory Analysis (PBS RL-SS01). PBS SS01 contains three sub-projects:

- Planning and Integration;
- Environmental Compliance Program; and
- Systems Engineering and Integration.

NOTE: Unless otherwise noted, all information contained herein is as of the end of June 2003.

NOTABLE ACCOMPLISHMENTS

Safeguards and Security (SAS) (PBS RL-SS-D)

Hanford Patrol Takes Competition Honors: The Hanford Patrol team achieved national recognition by winning both the "Security Police Officer of the Year" and "Supervisor" categories at the annual DOE Security Police Officer Training Competition.

Key Control Innovation: Utilizing commercial retail loss detection technology, SAS deployed a system at the Plutonium Finishing Plant to help prevent employees from accidentally leaving the plant with controlled facility keys.

Headquarters Inspection Completed: The DOE HQ Office of Independent Assessment completed the final phase of its inspection of safeguards and security at Hanford. RL expects a final inspection report will be issued by mid-July 2003.

Emergency Vehicle Operations Course (EVOC): The SAS Safety Project Manager and three Patrol Training Academy instructors attended the prestigious Bondurant School of High Performance Driving in Chandler, AZ, in preparation for certification and opening of the new EVOC center near HAMMER. The intensive four-day course included tactical executive protection and counter-terrorism driving techniques.

HAMMER (PBS RL-SS05)

Hanford Site Training at HAMMER: HAMMER's first priority is to deliver hands-on training to the Hanford workforce. During June, 185 classes were conducted for a total of 2,517 Hanford site student days. Highest attended health and safety classes included Hazardous Waste Operations, Respiratory Protection, Radiation Worker II Requalification, Basic Medic First Aid training, and Radiation Control Technician Continuing training. Overall satisfaction ratings (rated on a scale from one through four) for the month of June were Course Content 3.9, Instructors 4.0, and Facility 3.6.

Brokered Classes: HAMMER brokered or facilitated facility-specific, site-specific and multi-contractor training covering 15 topics provided via 20 sessions. The topics covered included Leadership Essentials I, II and III; Radiation Control Technician Continuing Training; and MICON software training. Multi-contractor training was also provided on Business and Technical Writing, Hanford Technical Library training, Painless Punctuation, Goof-Proof Grammar, and Assigned Beryllium Worker training.

ACCOMPLISHMENTS, CONTINUED

Emergency Preparedness (EP) Control Cell Support: HAMMER/Hanford Training assisted with preparations and provided administrative support for the EP Control Cell for the Hanford Site 2003 Field Exercise on June 19, 2003. The control cell is located at the Volpentest HAMMER Training and Education Facility. Sixteen people from the various prime contractors were in attendance to control the exercise.

Planning and Integration (P&I) (PBS RL-SS01)

FH Life-cycle Re-baseline was completed June 27, 2003: The pricing rate table was updated to reflect rate changes resulting from update of the assumptions for overhead costs and project base from the end of the FH contract through life cycle. P&I continued to provide system processing to support sub-project efforts to reconcile their baseline targets to RL funding targets. P&I also provided detailed scheduling support when needed by the sub-projects.

The FH Critical Path Schedule was developed. The schedule was extracted by coding from the project detail schedules. This schedule represents discrete activities, milestones, and Government Furnished Services/Information activities in support of FH Performance Incentives (PI's). Additional support was given through development of the PHMC Master Schedule, which is a high-level graphic representation of the project life-cycle schedules. The master schedule displays the major work activities at a management level and includes FH PI's as well as significant Hanford Federal Facility Agreement and Consent Order (alias Tri-Party Agreement), Defense Nuclear Facilities Safety Board, and contractor milestones for the project life-cycle.

Modifications were incorporated into the Performance Execution and Reporting Module and in the Hanford Data Integrator to accommodate the revised Work Breakdown Structure (WBS) and PBS structure and their associated report formats. The changes included revised Technical Baseline elements, a new Critical Path Schedule, revised Cost Baseline displays, and new PBS groupings.

PHMC Performance Report: The May-data report was provided to RL on June 24, 2003, and formally issued June 26, 2003, six working days ahead of schedule.

Environmental Compliance Program (ECP) (PBS RL-SS01)

Calendar Year (CY) 2002 Radionuclide Air Emissions: The *Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2002* (DOE/RL-2003-19) was transmitted to RL on June 11, 2003, two days ahead of schedule. This report fulfills tracked deliverable ECP-03-806. The report demonstrates compliance with the annual radiological dose standard of 10 millirem (mrem) imposed by the Environmental Protection Agency and Washington Department of Health. The dose to the maximally exposed individual from stacks was 0.023 mrem, and from diffuse and fugitive sources was 0.043 mrem, for a total of 0.066 mrem. The maximally exposed individual is an off-site member of the public who resides near Sagemoor Road in Franklin County, directly east of the 300 Area. The majority (98.3%) of the stack dose was from tritium emitted at the 325 Building in the 300 Area.

Toxic Chemical Release Inventory: The *CY 2002 Hanford Site Toxic Chemical Release Inventory*, DOE/RL-2003-18, was transmitted to RL on June 16, 2003, eight days ahead of schedule. This report fulfills tracked deliverable ECP-03-503.

ACCOMPLISHMENTS, CONTINUED

CY 2002 Polychlorinated Biphenyl (PCB) Document Log: DOE/RL-2003-35-R0, the *CY 2002 PCB Annual Document Log*, was submitted to RL on June 19, 2003, five days ahead of schedule. This action completes Tracked Deliverable ECP-03-504.

Fourth Quarter Resource Conservation and Recovery Act of 1976 (RCRA) Permit Class 1 Modification Notification: The Fourth Quarter RCRA Permit Class 1 Modification Notification was submitted to RL on June 18, 2003. This action completed Tracked Deliverable ECP-03-706 14 days early. Units included in this quarter's notification were the 305-B Storage Facility, Plutonium-Uranium Extraction Plant Storage Tunnels, Liquid Effluent Treatment Facility and 200 Area Effluent Treatment Facility, 242-A Evaporator, 325 Hazardous Waste Treatment Units, 1325-N Liquid Waste Disposal Facility, 1301-N Liquid Waste Disposal Facility, 1324-N Surface Impoundment, and 1324-NA Percolation Pond.

Hanford Facility RCRA Permit Renewal: In support of the RCRA permit renewal, the contactors have developed permit application checklists for use to satisfy application requirements for units in RCRA Permit Parts III, IV, V, and VI. The contractors will also be revising the contents of the General Information Portion (Attachment 33) of the Hanford Facility RCRA Permit, including the legal description (Appendix 2C), the topography maps (Section 2.2 and Appendix 2A), and Chapter 5 (Groundwater). This information will be discussed with the State of Washington Department of Ecology (Ecology).

216 State (ST) Waste Discharge Permits: The draft composite permit designed to replace the existing ST 4508, ST 4509, and ST 4510 Categorical Permits and the supporting draft Fact Sheet have been completed. The draft documents and path forward are being discussed with Ecology.

Systems Engineering and Integration (SEI) (PBS RL-SS01)

FH Life-cycle Re-baseline: The WBS Hierarchy and Dictionaries were provided as part of the FH life-cycle baseline update that was submitted to RL on June 27, 2003.

Project Hanford Management Contract: Work continued to support efforts for Prime Contract Management and Integration:

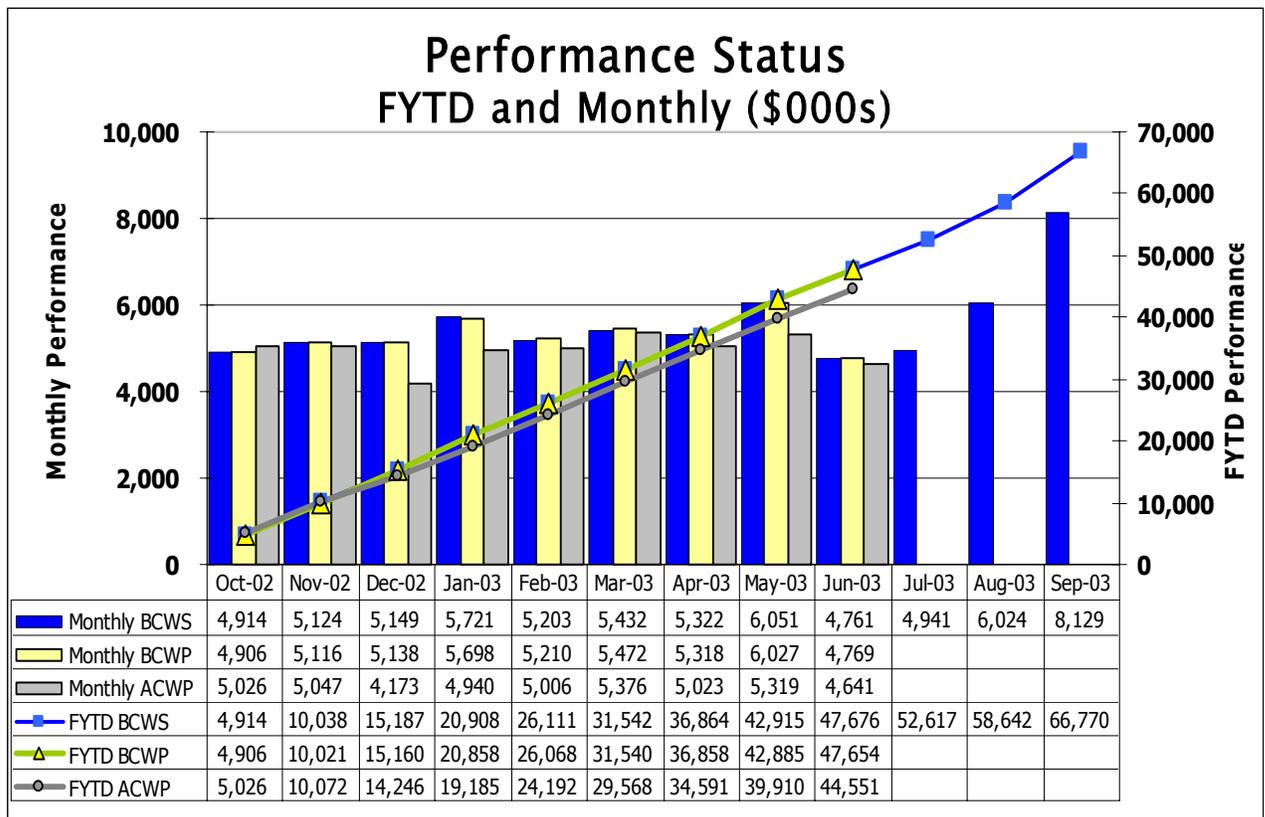
- PHMC Modifications 179 and 180 were incorporated into the Hanford Site Technical Database.
- Worked with Prime Contract Management and RL to resolve comments on the first quarterly Government Furnished Services and Items (GFS/GFI) submittal. Successfully resolved issues on 56 of 71 comments. Discussions with RL on the remaining 15 are continuing.
- Submitted the second quarterly GFS/GFI update to RL on June 19, 2003.

FY03 SCHEDULE/COST PERFORMANCE (\$000)

Schedule Performance: The schedule performance variance for all three PBSs is within the established +/- 10 percent or \$1M threshold, therefore no variance analysis is provided.

Cost Performance: Variances for PBSs SS-D and SS05 are minimal, therefore no variance analysis is provided. PBS SS01's positive cost performance variance of 24% (\$2,770K) is mainly due to prior spending restraints during continuing resolution. Now that continuing resolution has ended, equipment and service contracts are being let. Also included in the variance is an over-liquidation due to revenue from site services being planned at 32.4% while it is presently being generated at 34.7%. This over-liquidation could result in a refund to customers and/or a reduction in billing rates.

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-SS-D Safeguards & Security	32,606	32,606	32,423	0	0%	184	1%	44,407
RL-SS05 HAMMER	3,644	3,622	3,473	-22	-1%	149	4%	4,933
RL-SS01 Site Systems & Regulatory Analysis	11,425	11,425	8,655	0	0%	2,770	24%	17,430
Other Direct PBSs	47,676	47,654	44,551	-22	0%	3,103	7%	66,770



FY 2003 FH FUNDS VS FORECAST (\$000)

	Expected Funds	Spend Forecast	Variance
RL-SS01 Site Integration	14,353	14,159	194
RL-SS05 HAMMER	4,938	4,915	23
Post 2006 - Operating	\$ 19,291	\$ 19,074	\$ 217
RL-SS-D Safeguards & Security	47,982	47,187	795
Safeguards & Security	\$ 47,982	\$ 47,187	\$ 795