

# **Site Integration and Infrastructure**

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**N. P. Nunn, Vice President of Project Systems and Support/(509) 373-9724** regarding Planning and Integration, and Site Systems and Regulatory Analysis

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## OVERVIEW

Site Integration and Infrastructure consists of Project Baseline Summary (PBS) Safeguards and Security (PBS RL-SS-D) and Site Systems and Regulatory Analysis (PBS RL-SS01). PBS SS01 contains four sub-projects:

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

The HAMMER work scope will be transferred from PBS RL-SS01 to RL-SS05 at the end of May, 2003, per May 2, 2003 direction from RL.

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

## NOTABLE ACCOMPLISHMENTS

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

**Major Inspection:** The DOE HQ Office of Independent Assessment completed phase two of a three-phase inspection of Hanford safeguards and security from April 28 through May 8, 2003. Inspection activities included a major force-on-force attack simulation exercise that was conducted without injury to any of the participants. This inspection will conclude when the HQ team returns in June.

**Strategic Plan:** FH SAS completed a ten-year strategic outlook for staffing needs from FY 2003 through FY 2012 based upon current Hanford project baseline schedules, current DOE threat policy, and RL-approved strategies for the protection of Hanford facilities, employees, the public, and the environment.

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

**Fiscal Year (FY) 2005 DOE Unified Field Budget Request (UniCall):** FH received guidance from RL on April 4, 2003, requesting input to the DOE-HQ budget process. FH successfully completed deliverables including data on Historically Black College and Universities and Minority Educational Institutions, Construction Project Data Sheets, General Plant Projects, Work for Others, Information Technology and Integrated Facility and Infrastructure crosscuts.

**FH Life Cycle Rebaselining:** The following activities occurred in support of the June 30, 2003, FH Life-Cycle Rebaselining effort. Numerous reports were generated for FH sub-project use in validating the contract baseline updates. Specific reports include comparisons of project inputs to requirements including work breakdown structure (WBS), code of accounts, resources, staffing profiles, funding targets, metrics, pricing rate comparisons, milestones, earned value management system, interface points, and assessment's guidance. These reports have streamlined baseline reviews by focusing on areas needing corrective action. Sub-projects were also supported in the development of their critical path schedules by verifying the adequacy of coding requirements and project-to-project interface activities. In addition, planning systems were processed routinely to provide project organizations with updated baseline pricing information.

New Project Baseline displays, featuring the revised PBS and WBS relationships, were completed. These baseline displays will be put in the production version of the FH Hanford Data Integrator (HANDI) reporting system as the source for the FH Life-Cycle Rebaselining deliverable.

## **NOTABLE ACCOMPLISHMENTS, CONTINUED**

**Project Hanford Management Contract (PHMC) Performance Report:** The March-data report was delivered to RL on April 30, 2003, and distributed to all addressees on May 1, 2003. This report moved PBSS as necessary to reflect internal FH organizational changes.

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

**Appeal Settlement Negotiations with the Washington Department of Health (WDOH):** The appeal settlement negotiations regarding new and reissued notices of construction permits (NOC) with the WDOH resulted in a favorable settlement agreement. NOC approval for T plant is reverting to Revision 1A (WDOH approval letter AIR 02-803, August 8, 2002). An As-Low-As-Reasonably-Achievable Control Technology (ALARACT) demonstration will be provided to WDOH by July 31, 2003, to address past, present, and planned future T - Plant canyon activities, without having to revise the sludge NOC. Approval for the alternate flow measurement method [approved by U.S. Environmental Protection Agency (EPA) on March 27, 2003] will be provided via letter. T plant is ready to accept sludge, and the letter from WDOH will document WDOH acceptance for T Plant to operate the 291-T-1 Stack as a major emission unit.

**Columbia River Inspection Completed:** On April 23 and 24, 2003, general inspections of both banks of the Hanford Reach Columbia River, at high water as required by the Hanford Resource Conservation and Recovery Act of 1976 (RCRA) Permit, Condition II.O were conducted. One orphan drum was discovered on an island that is part of the Hanford property. The drum was recovered and has been dispositioned.

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Federal Facility Compliance Agreement (FFCA) Quarterly Status Report:** The NESHAP FFCA Quarterly Status Report was transmitted to RL on April 24, 2003, which completed Tracked Deliverable ECP-03-805 one day early.

**Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2002:** The first draft of the *Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2002* (DOE/RL-2003-19) was sent to reviewers for their comments. The document will fulfill NESHAP reporting requirements in 40-CFR-61, Subpart H, which also contains the radiological dose standard of 10 millirem (mrem) annually for emissions from DOE facilities. For 2002, the dose estimate deriving from all point-source emissions at the Hanford Site to a maximally exposed member of the public was 0.037 mrem, or 0.37 percent of the standard.

**Asbestos Management Memorandum of Agreement (MOA):** The MOA with the Benton Clean Air Authority regarding asbestos management on the Hanford Site was signed/issued during this period. A training workshop on asbestos requirements will be held next month, including discussion on this revised agreement.

**Regulator Inspection Support:** The following regulator facility inspections and follow-up to information and/or action requests were coordinated:

- On April 8, 2003, four teams from the State of Washington and Department of Ecology (Ecology) Inspectors reviewed selected Hanford Site waste storage areas managed by FH, Bechtel National, CH2MHILL Hanford Group, Inc. (CH2MHILL) Bechtel Hanford, and Pacific National Laboratory. Teams inspected 90-Day and Satellite Accumulation Areas at the 200 Effluent Treatment Facility, 209-E, 331 Complex, 3720 Facility, 100N, and the Waste Treatment Project.

## **NOTABLE ACCOMPLISHMENTS, CONTINUED**

- On April 4, 2003, Ecology closed out the January, 2003, Low Level Burial Grounds Inspection. No violations were found. There were three concerns that require no response or corrective action.

FH assisted RL in determining the status of past compliance issues that have been reported in formal correspondence from the regulators, but never had a due date nor required formal closure.

**Spill and Release Reporting:** Appropriate reporting responses were coordinated for four non-reportable releases. There was one reportable event with no release to the environment reported to the regulatory agencies through the Occurrence Notification Center.

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

**System Engineering Management System Solution:** In support of the efforts under the Hanford Site Analyses and Models and the Hanford Site Requirements Analysis Reports, the following work was accomplished:

- Work continued with the FH sub-projects in support of the FH Life-Cycle Rebaselining deliverable. WBS dictionaries have been produced from the Hanford Site Technical Database (HSTD) and provided to the FH sub-projects for review and comment. Changes have been made to the format of the WBS dictionaries to clearly identify buildings, waste sites and WBS interfaces.
- The Business Risk Management Framework (BRMF) analysis for the selected FH sub-projects has been completed. Results were provided to the FH sub-projects to incorporate into the FH Life-Cycle Rebaselining deliverable. Additional BRMF analysis is being performed on the infrastructure reliability projects.

**System Engineering Technical Products:** In support of the efforts for Prime Contract Integration, the following work was completed:

- Continuing to work with the FH sub-projects to identify interface management documentation for the FH interfaces. This information will be included in the FH WBS dictionaries.
- Working with RL and the FH sub-projects to resolve RL comments on the FH March 19, 2003, Government Furnished Services/Items transmittal letter.

### **HAMMER (PBS RL-SS01)**

**Hanford Site Training at HAMMER:** HAMMER's first priority is to deliver hands-on training to the Hanford workforce. During April, 206 classes were conducted for a total of 3,287 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 Hazardous Energy Control training.

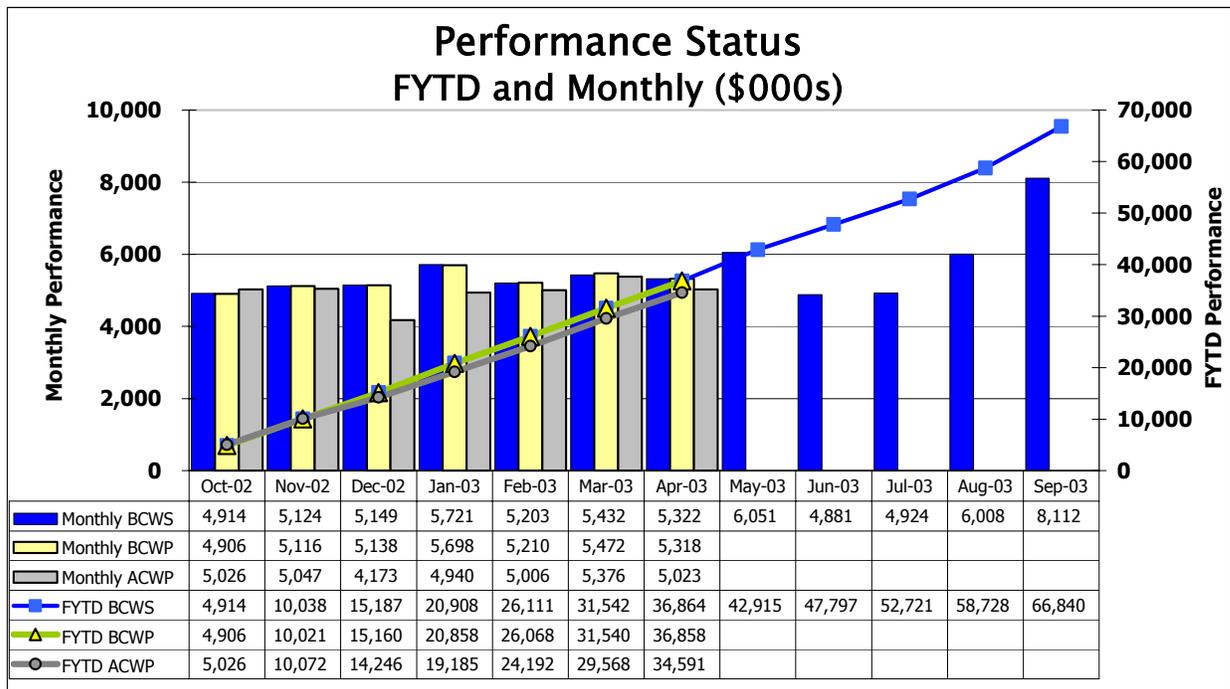
**Brokered Classes:** HAMMER brokered or facilitated facility-specific, site-specific and multi-contractor training covering 13 topics provided via 22 individual sessions. The topics covered included eight sessions of Tank Farms continuing training, five sessions of C-104 Retrieval Optimization, Field Work Supervisor Initial, Field Work Supervisor, and Double-Shell Tank Mixer Pump training for CH2M HILL; and Certified Health Physician training for Duratek Federal Services. Multi-contractor training was also provided for Water Hammer Safety, Advanced Rigging Evaluations, Condensation Induced Water Hammer Initial and Refresher.

## FY03 SCHEDULE/COST PERFORMANCE (\$000)

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

**Cost Performance:** The cost variance for PBS SS-D is within the established +/- 10 percent or \$1M threshold, therefore no variance analysis is provided. PBS SS-01's positive cost performance variance of 14.3% (\$1,687K) is mainly due to the prior spending restraint during continuing resolution. Now that the continuing resolution has ended, equipment and service contracts are being let. Also included in the variance is an over-liquidation due to revenue for site services being planned at 32.4% while it is presently being generated at 34.7%. This over-liquidation could result in a potential favorable pass-back to customers or a reduction in 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
<b>RL-SS-D Safeguards &amp; Security</b>	25,085	25,085	24,505	0	0%	580	2%	44,407
<b>RL-SS01 Site Systems &amp; Regulatory Analysis</b>	11,779	11,773	10,087	-6	0%	1,687	14%	22,433
<b>Other Direct PBSs</b>	<b>36,864</b>	<b>36,858</b>	<b>34,591</b>	<b>-6</b>	<b>0%</b>	<b>2,266.8</b>	<b>6%</b>	<b>66,840</b>



## FY 2003 FH FUNDS VS FORECAST (\$000)

	Expected Funds	Spend Forecast	Variance
<b>RL-SS01</b> Site Integration	22,258	19,826	2,432
<b>Post 2006 - Operating</b>	\$ 22,258	\$ 19,826	\$ 2,432
<b>RL-SS-D</b> Safeguards & Security	44,407	44,480	(73)
<b>Safeguards &amp; Security</b>	\$ 44,407	\$ 44,480	\$ (73)