

# **Section K**

## ***Site Integration***

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## INTRODUCTION

Site Integration consists of Project Baseline Summary (PBS) RL-SS01, Work Breakdown Structure (WBS) 3.4.1 (except for 3.4.1.3, 3.4.1.7, and 3.4.1.8). The five sub-projects addressed in Section K are:

- Planning and Integration (WBS 3.4.1.1)
- Environmental Compliance Program (WBS 3.4.1.2)
- Systems Engineering and Integration (WBS 3.4.1.4)
- Information Resource Management (WBS 3.4.1.5)
- Training (WBS 3.4.1.6)

NOTE: Unless otherwise noted, all information contained herein is as of the end of May 2002.

There are no milestones (EA, DOE-HQ, or RL) in Fiscal Year (FY) 2002 for this PBS.

## NOTABLE ACCOMPLISHMENTS

### PLANNING & INTEGRATION (P&I) WBS 3.4.1.1

**FY 2004 Unified Field Budget Request (Unicall)** — The Information Technology (IT) Management Crosscut and the Acquisition of Information Technology Capital Assets (OMB A-11) Reports for the Hanford Site were submitted to RL with subsequent submission to DOE-HQ during the reporting period, as scheduled. Fluor Hanford (FH) coordinated input and prepared the report for all site contractors, including Bechtel National (BHI), Pacific Northwest National Laboratories (PNNL), Hanford Environmental Health Foundation, CH2M Hill Hanford (CHG), as well as FH.

Pending finalization and receipt from RL of Environmental Management Funding Control targets, FH will prepare and submit supporting reports for Environmental, Safety and Health, and the Infrastructure and Facilities Crosscuts.

**FY 2004 Budget Request** — The traditional budget submittal to DOE-HQ was extended from April 15, 2002 to June 17, 2002 to include the decisions on distribution of the Cleanup Reform Account (CRA). Numerous scenarios have been developed to incorporate into the budget changes associated with: the acceleration initiatives; other Targets of Opportunities associated with outcomes from the Cleanup, Constraints and Challenges Team (C3T); FY2035 Closure acceleration; and other actions. Initial allocations were made on May 27, and entered into our Integrated Priority List Module that supports identification of funding categorized to DOE HQ's peer review and Environmental Management's (EM) five "Budget Categories". Final allocation decisions will be made in early June and FH will support RL in completing the remainder of the supporting FY04 Budget justification submittal.

**Richland Summary Schedule Update (RLSS)** — P&I delivered a draft cost loading report of the RL baseline from the latest quarterly update of the RLSS. This product primarily contains baseline information as of April month-end. Per RL request, the existing FH and BHI baseline information associated with scope in the new River Corridor contract was replaced by the Army Corp of Engineers resource loaded schedule from the Request For Proposal. FH will provide RL with supporting products once RL has validated the Non-FH scope cost loads.

**Laundry Baseline Change Request (BCR)** — During this reporting period, P&I submitted and reviewed with RL the BCR for update of FH baselines as a result of updated laundry cost guidance from RL. This BCR is currently awaiting disposition at RL.

**Central Plateau Transition** — Training for incoming Project Controls and Project Management staff has been developed. The training will cover the following topic areas: Project Controls Overview, Project Controls Systems Orientation, and Primavera (P3) Coding and Usage. This training will be conducted the first week of July. Included in the training material was an update of the FH scheduling training to incorporate process changes incorporated into the FH Scheduling Reference Guide. This portion of the training will also be given to existing FH scheduling personnel.

**Hanford Data Integrator (HANDI) Report Changes** — FH Performance reports have been modified to provide contract period Estimate-at-Completion (EAC) information. The information is derived from Estimates to Complete (ETC) loaded by field project controls staff into the Forecast Module.

**Support of CHG** — P&I has provided systems and scheduling support of CHG's efforts to complete a major re-baseline of their project. This involved modifications to systems and revision of historical databases.

**Ongoing monthly requirements completed in this reporting period**

- **RL/FH Performance Management Meetings (PMMs)** - The March-status PMM was held on May 1, 2002 and the April-status PMM was held on May 30, 2002, both as scheduled. The May 30, 2002, PMM was held in concert with the DOE-HQ/RL mid-year review, with added focus on Spent Nuclear Fuel (SNF), River Corridor, Nuclear Materials Stabilization/Plutonium Finishing Plant (PFP), and Waste Management sub-projects, along with the Fast Flux Test Facility (FFTF) and Hanford Site Operations. Topics addressed from both the RL and FH perspectives included FH's Comprehensive Performance Incentives status, cost/schedule performance, major accomplishments, monthly safety status, milestone achievements, and critical issues.
- **Environmental Management Performance Report (EMPR)** - The March EMPR was provided to RL on May 2, 2002 and in bound copy on May 13, 2002. The April EMPR was provided to RL on May 30, 2002.

**Miscellaneous Support** — Staff continue to provide support to numerous special requests. Scheduling support has and continues to be provided on the implementation of the 10 CFR 830 initiative as well as special schedule development for Human Resources. Staff have provided baseline data queries in support of staffing analyses, and provided quick turnaround of an update of the Project Master Schedules in support of the C3T acceleration initiative.

## Environmental Compliance Program (ECP) WBS 3.4.1.2

**Air Operating Permit (AOP) Annual Certification Report** — The AOP Annual Certification Report was certified by FH and delivered to RL on May 29, 2002, completing Tracked Deliverable ECP-02-404. RL is scheduled to certify on June 14, 2002.

**Calendar Year (CY) 2001 Polychlorinated Biphenyl (PCB) Annual Report** — A letter addressing the preparation of a CY 2001 PCB Annual Report (Tracked Deliverable ECP-02-506) was delivered to RL on May 23, 2002. The letter discusses the fact that no PCB waste disposal activities were conducted on the Hanford Site in CY 2001 and, therefore, no report is required. RL will transmit this information to U.S. Environmental Protection Agency (EPA) Region 10.

**Chemical Management** — A significant milestone has been reached in the Chemical Management Program (CMP). The CMP Requirements Document (RD) (HNF-RD-8839) and Procedure (PRO) (HNF-PRO-10468) have both been formally submitted for review via the required PHMS routing and to the CMP Points-of-Contact. There was a significant amount of interest in the draft documents, and many constructive and helpful comments were received from CMP participants. All comments have been reviewed and dispositions sent to the reviewers. The documents have been revised in accordance with

the accepted comments. Both the RD and the PRO are now in the hands of the Environmental, Safety, and Health (ES&H) procedure coordinator for finalization in the Project Hanford Management System (PHMS).

**Spill and Release Reporting** — Appropriate reporting responses were coordinated for seven 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 was one reportable event with a release to the environment and one reportable code non-compliance event reported directly to the regulatory agencies by the FH Single-Point-of-Contact through the Occurrence Notification Center (ONC).

## SYSTEMS ENGINEERING AND INTEGRATION (SE&I) WBS 3.4.1.4

**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:

- Supported PFP, FFTF and SNF Projects' integration efforts relative to consolidating spent fuel in the Canister Storage Building.
- Continued working with the Projects to integrate Revision 2 of the Hanford Site Environmental Management Specification into the Project Hanford Management Contract (PHMC) baseline.
- Continued support to RL's Implementation Plan for the Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 2000-2, Configuration Control for Vital Safety Systems.
- Worked with FH Contracts, Standard/Requirements Identification Documents (S/RID's) Lead, and the PHMS Lead to improve the integration of the FH requirements management activities.

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

- Worked to develop a company level procedure for managing interfaces that will satisfy contract requirements and improve the FH business process. The procedure and guidance document have been issued.
- Supported the Projects in providing "metrics" data for inclusion in the FY 2004 Budget Formulation submittal.
- Supported the Vice President for Business Systems in the risk analysis efforts for the SNF Project. This work utilizes a Fluor Corporate model for risk management.

## Information Resource Management (IRM) WBS 3.4.1.5

**FY 2004 IT Unified Budget Request (UNICALL)** — FH submitted the FY 2004 IT UNICALL Form 53 and Form 300b reports, which includes a crosscut of information related to IT at the Hanford site.

**Five Million Safe Work Hours by IRM Staff** — On May 31, 2002, the IRM team achieved five million safe work hours without a day lost to injury. This significant milestone is a first by a FH subcontractor, and the record began over four years ago, on February 26, 1998. Over 500 employees of Lockheed Martin Information Technology, Qwest, and Hanford Atomic Metals Trade Council (HAMTC) bargaining unit performed the accomplishment. The IRM team, part of the Hanford Site Operations (HSO) organization, provides IT support to multiple contractors at the Hanford site.

**Cost Forecasting Module (FORE2001)** — The FORE2001 module allows project managers to utilize cost forecasting, which is a method of estimating remaining project costs through the current fiscal year, as well as through the end of the project. Version 1.06 of FORE2001 was recently released into production and includes two new reports containing specific information for project analysis. The two new reports are an Estimate to Complete (ETC) dollars for the Contract by Resource Type in Escalated/Un-escalated dollars report and an Authorized Funds Report.

## Training WBS 3.4.1.6

**Nuclear Safety Training** <sup>3/4</sup> Seven sessions of Nuclear Criticality Safety training were held for 46 students during May 2002. Forty-eight sessions of Radiation Worker training were held during May 2002. Sixty-four students attended 20 sessions of initial radiation worker training and 153 students attended 28 sessions of radiation worker retraining.

**Hazardous Waste Training** — Three hundred and twenty-seven students were trained in hazardous waste handling during May 2002. Fourteen 8-hour refreshers and one combination initial classes were conducted.

**Respiratory Training** <sup>3/4</sup> Two hundred and eighty-two students were trained in respiratory protection during May 2002. Twenty-four respiratory protection refresher classes and four respiratory protection initial classes were conducted. In addition, ten special respiratory protection classes were added, providing training for 12 students in time to meet work requirements.

**Mask Fit Training** <sup>3/4</sup> Three hundred and thirty-three students were processed through Mask Fit during May 2002.

**Occupational Safety and Health Training** <sup>3/4</sup> Twelve sessions were held for 83 students on various hoisting and rigging topics during May 2002. The topics included basic crane and rigging, aerial lift safety, load securing, and inspection of overhead cranes.

**Occupational Safety and Health Administration (OSHA) Training** <sup>3/4</sup> The three-day session of forklift and aerial lift inspector was conducted May 21-23, 2002. This course provides the 36-month re-qualification requirement for the mechanics that maintain this equipment. The course includes approximately 50 percent hands-on training.

**Occupational Safety and Health Training** <sup>3/4</sup> The scaffold training courses for erectors and inspectors have been revised. The changes to the training program include:

- New course titled "Scaffold Training for Erectors/Dismantlers."
- No equivalency will be granted between the scaffold inspectors and scaffold erectors courses.
- The inspector's course will become a pre-requisite for the erectors course and the redundant sections will be deleted from the scaffold erectors course.
- The classroom portion of the erectors course has been minimized and will cover fall protection feasibility with emphasis on the procedures and techniques of erecting and dismantling scaffolds.
- New hands-on activities have been added, including the use of scale models.

**Emergency Preparedness (EP) Training** <sup>3/4</sup> Training supported the following EP training activities:

- Web-based refresher training - 99 students
- Building emergency director initial training - 7 students

**Continuous Improvement of Training** <sup>3/4</sup> Two sessions of "Creating a Learning Environment Using Multi-Media" were held during May 2002. The completion of this class will satisfy Training's deliverable to offer an instructor continuing training program.

## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

### Breakthroughs

None to report.

### Opportunities for Improvement

**Environmental Compliance Program**— The FH Environment and Regulation organization continued efforts on the Environmental Awareness Initiative. In May, activities included coordination of the Environmental Stewardship Award presentation and award ceremony at the Health and Safety Exposition (EXPO). The selection criterion for the award included input from environmental regulators and RL staff, reportable environmental incidents, participation in recycling efforts, Facility Evaluation Board (FEB) assessment results, and responsiveness to corrective actions. The River Corridor Project was presented with the award on May 2, 2002.

## UPCOMING ACTIVITIES

### Planning & Integration

- FY 2004 Budget Request to RL and DOE-HQ - Due June 17, 2002.
- Support to Life Cycle Cost Reduction - ongoing.

### ECP

- ECP-02-405, Portable Temporary Radioactive Air Emissions Unit (PTRAEU) and high-efficiency particulate air (filter) HEPA Vacuum Unit (HVU) Annual Report - Due June 14, 2002.
- ECP-02-806, Annual Radioactive Airborne Emissions Report - Due June 14, 2002.
- ECP-02-504, Emergency Planning and Community Right-to-Know Act (EPCRA) Section 313 Toxic Chemical Release Inventory (TRI) Report - Due June 24, 2002.
- ECP-02-505, Calendar Year (CY) 2001 Hanford Site Annual Polychlorinated Biphenyl (PCB) Document Log - Due June 24, 2002.
- ECP-02-406, Second AOP Semi-Annual Report - Due July 22, 2002.

### Systems Engineering & Integration

- In response to Project comments on the Technical Baseline, SE&I is working to improve the Hanford Site Technical Database (HSTD) functional analysis - Due June 2002.

### Information Resource Management

- The Inspector General (IG) and the Office of Counter Intelligence (OCI) are performing Cyber Security audits. Although the IG is auditing RL specific systems, the audit is also evaluating the security of the network and applicable hosts. The OCI audit will take place in June and preparations are being made to support this activity.
- The Request for Proposal to replace the Wide Band very high frequency (VHF) radio infrastructure and end user devices is in development with the anticipated completion date of June 2002.
- Unsolicited commercial email (SPAM) blocking will start in June on the Internet. Email will be rejected if the sender's address is in the SPAM access database. This modification will be transparent to the users.
- The Central Plateau Transition will take place the last week of June 2002, which is being supported by IRM's computer, network and records organizations.

**Training**

- Review results of the newly awarded training outsource contract for quality and cost effectiveness to include input from RL, Office of River Protection (ORP), and all other site contractors who use them as a training provider. Provide corrective action direction for FH contract for training as necessary. Provide report by June 30, 2002.
- Use a statistical approach to determine the target population of courses offered at the facility level to evaluate as duplicative in nature. This analysis will consider courses identified by RL- Office of Training Services (RL-OTS) and FH. Based upon the initial data, determine and implement a path forward, corrective action, and monitor implementation of the adjustments made. Provide a report by June 30, 2002, to include actions taken, successes, and future path forward.
- Conduct assessments of the use of the Systematic Approach to Training (SAT) process on high attendance training activities (number and activities to be determined jointly by FH and RL-OTS) to determine the quality, appropriateness of delivery method and compliance with all applicable regulations. Provide report by August 31, 2002.

**MILESTONE ACHIEVEMENT**

There are no milestones (EA, DOE-HQ, or RL) in FY 2002 for this PBS.

**FY 2002 SCHEDULE / COST PERFORMANCE – ALL FUND TYPES  
FY TO DATE STATUS – (\$000)**

By PBS		FYTD							
		BCWS	BCWP	ACWP	SV	SV%	CV	CV%	BAC
PBS SS01									
WBS 3.4.1.1	P&I	2598	2595	2173	-3	-0.1%	422	16.3%	3.989
WBS 3.4.1.2	ECP	6228	6228	5682	0	0%	546	8.8%	9.297
WBS 3.4.1.4	SE	640	640	461	0	0%	179	28.0%	887
WBS 3.4.1.5	IRM	6900	6900	7428	0	0%	-528	-7.7%	10.408
WBS 3.4.1.6	Training	3365	3361	2841	-4	-0.1%	521	15.5%	5.171
	Total	19731	19723	18584	-7	0.2%	1139	5.8%	29.753

**FY TO DATE SCHEDULE / COST PERFORMANCE**

All schedule variances in PBS RL-SS01 are within established thresholds. The \$1.1 M (5.8 percent) favorable cost variance is discussed in the Cost Variance Analysis portion of this report.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

## Schedule Variance Analysis: (-\$0.007M)

All schedule variances are within established thresholds.

## Cost Variance Analysis: (+ \$1.1M)

### PLANNING & INTEGRATION

**Description/Cause:** The favorable cost variance is due to reserve identified in the baseline to be reallocated to higher priority work in other projects.

**Impact:** There is no significant project impact at this time.

**Corrective Action:** None at this time.

### ENVIRONMENTAL COMPLIANCE PROGRAM

**Description/Cause:** The favorable cost variance is a result of labor under runs due to reductions of force, and procurement delays due to spending restrictions.

**Impact:** There is no project impact at this time.

**Corrective Action:** None at this time.

### SYSTEMS ENGINEERING AND INTEGRATION

**Description/Cause:** The favorable cost variance is a result of procurement delays for the Requirements Driven Design (RDD) 100 software in support of the HSTD due to spending restrictions.

**Impact:** There is no project impact at this time.

**Corrective Action:** None at this time.

### INFORMATION RESOURCE MANAGEMENT

**Description/Cause:** The unfavorable cost variance is within established thresholds, and is due mainly to less than planned revenue.

**Impact:** There is no project impact at this time.

**Corrective Action:** None at this time, but continuing to closely monitor revenue.

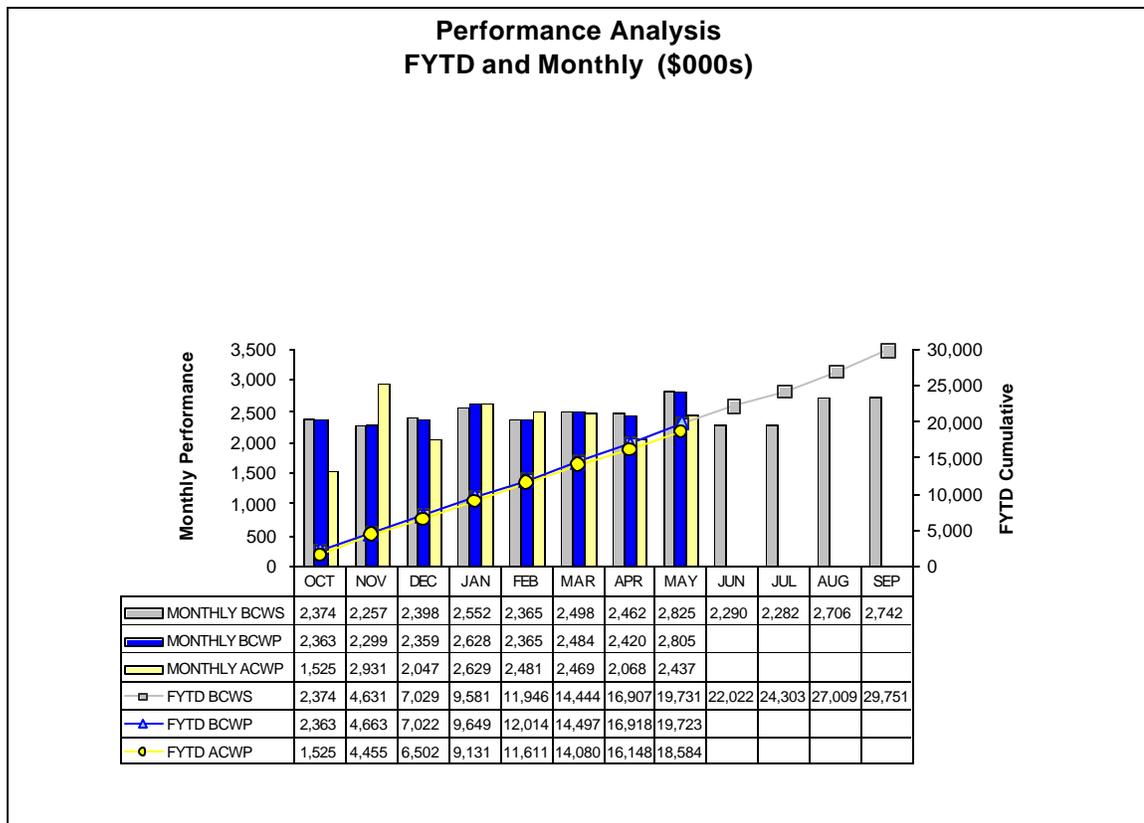
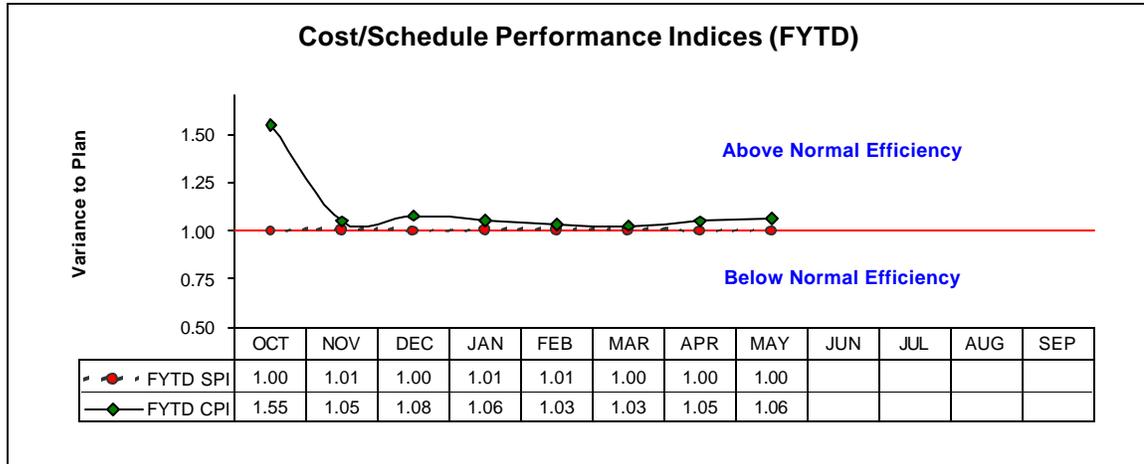
### TRAINING

**Description/Cause:** The favorable cost variance is a result of labor under runs due to reductions of force, efficiencies and vacant positions placed on hold due to spending restrictions.

**Impact:** There is no project impact at this time.

**Corrective Action:** None at this time.

## COST / SCHEDULE PERFORMANCE (MONTHLY AND FYTD)



## FUNDS MANAGEMENT FYTD FUNDS VS SPENDING FORECAST (\$000)

	FH Funds Reallocation	FYSF	Variance
<b>3.4.1 Site Integration</b>			
<b>SS01</b>			
<b>Post 2006 - Operating</b>	\$ 27,505	\$ 27,900	\$ (395)
<b>Total</b>	\$ 27,505	\$ 27,900	\$ (395)

[Status through May 2002]

Note: FH Reallocation reflects an FYSF adjusted for scope deletions, deferrals, and identified savings to address funding shortfalls, additional unplanned scope, and cost increases.

## ISSUES

### TECHNICAL, REGULATORY, EXTERNAL AND DOE ISSUES AND DOE REQUESTS

None to report.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

### Baseline Change Log

BCR No./ Level 4 WBS	Date Originated	Description	Impact		Date Approved	Status
			Days	Dollars (\$000s)		
FH-02-010 3.4.1	2/28/02	FH Labor Rate/Continuity of Service & Escalation		593.0		In Process
FH-2002-002 3.4.1.6	5/15/02	Laundry Allocation Revision		217.0		In Process

NOTES: "Impact" refers to the impact in terms of the number of days or dollars changing from the 9/30/01 baseline.

"Date Approved" refers to date of change as approved by final approval authority.