

## Section K *Site Integration*

### PROJECT MANAGERS

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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 March 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

**Integrated Planning, Accountability and Budgeting System (IPABS) Budget Formulation** — DOE-HQ guidance was received for the annual Budget Formulation submission, due to DOE-HQ on May 20, 2002. The budget request is to incorporate the incremental Cleanup Reform Account funding and Top-to-Bottom review initiatives. FH and RL management are meeting to establish which funding scenarios and/or assumptions are to be included in the deliverable.

An initial kick-off on funding scenarios will be provided to the PBS business managers on April 10, 2002. The funding numbers, and supporting backup, are to be provided via a combination of IPABS (Fiscal Year [FY] 2003-2004) and Excel spreadsheets (FY 2005 through lifecycle). IPABS requires submittal of one-to-four key/budget milestones per PBS, per year through FY 2008. Metrics and the Peer Review Project List (previously the Integrated Priority List) will be submitted at the PBS level, instead of waste stream and building number or sub-PBS details previously required. However, those details will be required to be provided later in a Fall IPABS Update.

Additional system modifications were made to the Integrated Priority List Module (IPLM) in order to meet some new requirements from DOE-HQ.

DOE-HQ requires that all work be categorized and reportable by one of the five Environmental Management (EM) Budget Categories which include: 1) Established Pathway For Closure and/or Cleanup; 2) Waste, Materials and Facilities Disposition Operations; 3) "Caretaker" Activities; 4) DOE-Wide Environmental Services and Missions; 5) Other (community mandates, advisory boards, grants, technical training and education, etc).

A preliminary guidance package concerning the Integrated Priority List (IPL) process was issued to the projects so they could begin writing/revising the narratives associated with the IPL. Since funding targets for FY 2003 and 2004 are not yet finalized, only a limited amount of work can be done with the corresponding narratives.

**FY 2004 Unified Budget Request (UNICALL)** — FH received the FY 2004 UNICALL, which includes a number of new data and crosscuts of information. Included in this UNICALL are two new reports that appear to be quite extensive and FH is reviewing the guidance and assessing the effort to complete the new deliverables entitled the Facilities and Infrastructure crosscut and the planned acquisition of Information Technology capital assets.

**Richland Summary Schedule (RLSS)** — A kick-off meeting was held with the goal of identifying an enhanced list of major inter-project logic ties to be used in the RLSS. These logics are to include the first and last transfers of major waste shipments and the transfer of facilities between projects. The starting point in evaluating the existing inter project logics is several documents that have been used by the projects in the past on various products.

**Acceleration of Preliminary Performance** — Due to improvements made to the tool used to extract the monthly performance data from the projects Primavera Project Planner (P3) files we were able to support running preliminary monthly performance one day early. We now run preliminary performance on the same night as Final Cost Processing. This allows the projects to see and analyze their performance earlier and gives them a head start on writing Variance Analysis Reports and developing their forecasts.

**Update of the Scheduling and Performance Measurement Reference Guide** — P&I recently completed an update of the scheduling reference guide. This guide has detailed instructions for the project schedulers on how to use the P3 scheduling software to build their P3 files, feed their monthly performance data and create their summary schedule. It also defines the process of incorporating approved Baseline Change Requests (BCRs), statusing their schedule, file naming conventions, and running the steps necessary to send their monthly data to the performance module.

Also, a training class is being developed based on the above reference guide. The class will be given to existing project control personnel such as analysts and schedulers as well as being a key component in the training of the new project control personnel transitioning with the new Central Plateau work scope.

**HANford Data Integrator (HANDI) I Functional Organizational Reports** — A new set of performance reports were added to the HANDI reporting system this month that summarizes performance data by a functional organization title that corresponds to each FH Vice President's direct work area of responsibility. That data are summarized under each functional area by level 4 WBS. This aggregate information should cut the preparation time required to produce Project Review and PMM presentations.

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

- **RL/FH Performance Management Meetings (PMMs)** - Two RL/FH PMMs were held in March under the recently revised format. 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. January performance/status was addressed at the PMM held on March 5, 2002, and February performance/status was addressed at the PMM held on March 28, 2002. The next PMM, scheduled for May 2, 2002, is slated to be a quarterly baseline review addressing March performance/status, and will provide more detailed Sub-project performance information.
- **Environmental Management Performance Report (EMPR)** — The January EMPR was provided to RL on March 5, 2002 and in bound copy on March 13, 2002 as planned.

### **Environmental Compliance Program (ECP) WBS 3.4.1.2**

**Biennial Assessment of Information and Data Access Needs** — The biennial assessment of Tri-Party Agreement (TPA) information and data access needs was completed with the U.S. Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology) on March 18, 2002. No new information or data access needs were identified as a result of the assessment. This completes TPA milestone M-035-09C and tracked deliverable ECP-02-602.

**Transuranic Waste Retrieval Environmental Assessment Approved** — The Environmental Assessment (EA)/Finding of No Significant Impact (FONSI) for the "Transuranic Waste Retrieval from the

218-W-4B and 218-W-4C Low-Level Burial Grounds, Hanford Site, Richland, Washington" (DOE/EA-1405) was signed and approved by Keith Klein on March 22, 2002.

**Third Quarter Class I Modification Notification** — The Hanford Facility Resource Conservation and Recovery Act of 1976 (RCRA) Permit Quarterly Class I modification notification for the third quarter was completed. The package was delivered to RL on March 28, 2002, completing tracked deliverable ECP-02-705.

**Tracking of Chemicals in Satellite Accumulation Areas (SAAs)** — A work plan for the Chemical Management System (CMS) tracking of chemicals in SAAs was developed and is being reviewed. The plan proposes the development and implementation of systems and policies that will recognize and control chemical hazards in SAAs. Legacy vessels tracking information will also reside in the CMS database. All known legacy vessels information was uploaded into the CMS database. However, characterization of the vessel contents is currently outside the scope of this activity.

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

- March 6, 2002, State of Washington Department of Health (WDOH) inspectors performed a Level II Inspection at the 324 Facility.
- March 11, 2002, WDOH Inspectors performed follow-up inspection concerning the Cold Vacuum Drying Facility.
- March 21, 2002, a Hanford RCRA Permit II.0 General Inspection of the 200 West Area was performed. An inspector from Ecology attended. This inspection required follow-up for observed housekeeping items.

**Spill and Release Reporting** — Appropriate reporting responses were coordinated for three (3) 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 (1) reportable event with a release to the environment and five (5) reportable code non-compliance reported directly to the regulatory agencies by the FH single-point-of-contact.

## 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:

- Worked with the Project Finance Department to flow requirements from the Contract to the Indirect WBS.
- Supported the Plutonium Finishing Plant (PFP) and Waste Management (WM) Projects in an alternatives evaluation for dispositioning Large Contaminated Equipment. PFP acceleration is dependant on the capability to disposition equipment that is contaminated with transuranics and is too large to fit into a standard waste box.

**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 has been submitted for an initial review.
- Worked to incorporate RL comments on the technical baseline as a result of the September 30, 2001 baseline deliverable. Most of the Project specific comments have been incorporated. SE&I is currently working on some of the cross cutting comments.

## Information Resource Management (IRM) WBS 3.4.1.5

**IRM Long Range Operating Plan (LROP)** — The LROP was submitted to RL on schedule and identifies the initiatives that must be undertaken to achieve the goals defined in the IRM Strategic Plan. The plan is provided in a web-based format, enabling the user to peruse through each fiscal year's activities as well as run various reports of the plan. In addition to the activities that support the Strategic Plan, activities that support the operations and maintenance activities for the IRM infrastructure were also included.

**Comprehensive Wireless Telecommunications Plan** — The Comprehensive Wireless Telecommunications Plan was completed and submitted to RL. The document covers business drivers for moving to wireless communications, where the industry is going, an overview of the implementation approach for Hanford, and provides an overview of planned projects that support the use of wireless technology.

**Plutonium Finishing Plant Personnel Accounting System (PFPPAS)** — The PFPPAS keeps track of personnel that enter the PFP protected area. The system is used to account for personnel in the event of a building evacuation. New PFPPAS computers were received and, application software and a backup process have been installed. Two remote personnel accounting system (PAS) computers will be configured as "kiosks" so that they automatically log in to the network but have restricted functionality.

**TPA Databases, Access Mechanism and Procedures document (TPA Milestone) updated** — This document, which is required for Ecology and the EPA to access databases related to the TPA, is now updated and available. The document identifies the procedures required to obtain access to the Hanford Site computer networks and the TPA related databases. It address security requirements, access methods, database availability dates, database access procedures, and the minimum computer hardware and software configurations required to operate within the Hanford Site networks. The TPA Home Page is at <<http://www.hanford.gov/tpa/tpahome.htm>>, and the revised document resides under the Data Management tab. You can see the current document under the Data Management tab at [http://www.hanford.gov/tpa/datamgt/tpa\\_datamgt.htm](http://www.hanford.gov/tpa/datamgt/tpa_datamgt.htm).

## Training WBS 3.4.1.6

**Hazardous Waste Training** — Three hundred and ninety-six students were trained in hazardous waste handling during March 2002. Sixteen 8-Hour Refreshers and one pilot Combination Hazardous Waste Initial classes were conducted. The Combination class is a 40-Hour/24-Hour/Upgrade comprised of the following:

- Students who require 40-Hour Hazardous Waste training attend for the entire week
- Students who require 24-Hour Hazardous Waste training attend for the first three days
- Students who require an Upgrade to the 40-Hour Hazardous Waste attend the last three days

The benefits of the overlapping scheduling method includes enhanced space utilization, increased course availability, reduction of scheduling conflicts, and continuity of training materials and instructors.

**Respiratory Training** — Two hundred and eighty-one students were trained in respiratory protection during March 2002. Twenty-four Respiratory Protection Refresher classes and six Respiratory Protection Initial classes were conducted. In addition, one special respiratory protection class was added, providing training for seven students in time to meet work requirements.

**Occupational Safety and Health Training** — Nine sessions were held for 70 students on various hoisting and rigging topics during the month of March 2002. The topics included basic crane and rigging, aerial lift safety, load securing, and inspection of overhead cranes. Working with lifting equipment and elevated loads are some of the most hazardous tasks on the Hanford Site. These courses are the foundations of hoisting and rigging safety.

**Emergency Preparedness (EP) Training** — Training supported the following EP activities:

- Hanford Incident Command System Initial Training - 28 students
- Web-based refresher Training - 95 students
- Provided development and administrative support to the Hanford EP 2002 Tabletop Exercise held at Columbia Basin College on March 21, 2002.

**Nuclear Safety Training**

- Nine sessions of Nuclear Criticality Safety training were held for 57 students during March 2002.
- Thirty-seven sessions of Radiation Worker training were held during March 2002. Twenty-six students attended 7 sessions of Initial Radiation Worker training and 179 students attended 30 sessions of Radiation Worker retraining.
- The final session of the third cycle of Radiation Control Technician (RCT) continuing training was held during March 2002. Four hundred seventeen RCTs and Rad Con staff attended 20 sessions that included lessons on air sampling and dosimetry, AMS-4 beta continuous air monitor, bioassay methods and modeling, and onsite routine radioactive shipping records.
- Radiological control mentoring support for Spent Nuclear Fuel (SNF) personnel continued during March, with approximately 80 hours devoted to this task.

**Deliverable Completion** — Training completed the following deliverable and sent to RL on March 27, 2002.

- Assess the effectiveness of the crosswalk between competencies and training needs for the internal procedure (IP)-1184, Automated Job Hazard Analysis (AJHA), (Automated) Employee Job Task Analysis (EJTA), and Integrated Training Employee Matrix (ITEM) to include the level of use at the facilities, customer satisfaction, and value added. Compile data from the facilities to show where it is being used to ensure proper training is being provided to the proper people at the proper time - Due March 31, 2002.

## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

### Breakthroughs

**Information Resource Management — Virtual Knowledge Center (VKC) Project Status** — The VKC project provides a suite of technologies that allows simple and easy access to information from a multitude of databases and systems through a portal. It includes electronic signatures, electronic workflow, electronic records management, electronic document management, and portals for searching for documents/records. FH procurement negotiated a 4-year lease to buy agreement for the Virtual Knowledge Management OpenText software licenses at a savings of \$1,441,182 over the incremental purchase of the same number of licenses

### Opportunities for Improvement

**ECP — Permit Condition Compliance Tracking System** — Work was initiated March 26, 2002, to build a new data system tool for FH staff to track operational compliance with Hanford Facility RCRA Permit conditions. This initiative, which will be supported by Lockheed Martin Information Technologies (LMIT), is based on the adaptation and application of LiveLink system software within the VKC Project. The current schedule calls for startup of a pilot demonstration at the Waste Receiving and Process (WRAP) and Central Waste Complex (CWC) facilities by June 1, 2002.

**Information Resource Management — Controlled Document Issued in Compact Discs (CD) Format** — Controlled Document Management issued controlled CDs of the complete annual rewrite of the PFP Final Safety Analysis Report. This is the first distribution of a controlled document in CD form.

**Training — Condensing of Training Procedures** — Training personnel have initiated the review of training procedures to support the new FH Requirements Management System. The following four draft documents will replace approximately 12 existing documents.

- Training Requirements Document  
Replaces HNF-MP-011, Sitewide Qualification and Training Plan
- HNF-PRO-249, Training Course Administration, Registration, and Records  
Revision only
- Guidance Document on Systematic Approach to Training (SAT)  
Replaces HNF-PRO-167, Using the SAT Model for Training, HNF-PRO-170, Analyzing Training Requirements, HNF-PRO-171, Designing Training, HNF-PRO-172, Developing Training, HNF-PRO-173, Implementing Training, and HNF-PRO-174, Evaluating Training
- Guidance Document on Training and Certification  
Replaces HNF-PRO-168, Employee Training, HNF-PRO-169, Assigning Training Responsibilities, HNF-PRO-176, Preparing Qualification Programs at Nuclear Facilities, and HNF-PRO-177, Preparing Certification Programs at Nuclear Facilities

**Training — Criticality Safety Representative (CSR) Oral Examination Boards (OEB)** — An issue with the CSR OEB was addressed this month. There are at least 11 separate course numbers for the CSR OEB. The Criticality Safety Center of Expertise has recommended that these OEBs use a single site-wide number for all boards. The initiative has been submitted to the facility points Of Contact and CSR's for concurrence.

**Training — Hazardous Energy Control (HEC) procedure** — Training personnel are supporting the FH initiative to develop a single Hazardous Energy Control (HEC) procedure for FH facilities and projects. A presentation of training implementation options was given to the Training Center of Expertise (TCOE). Feedback from the TCOE members supported a "train-the-trainer" option. Training would develop a course for the facilities trainers and train them in its use. The facility trainers would then conduct the update training. The implementation method of choice has been proposed to the HEC Team.

## UPCOMING ACTIVITIES

### Planning & Integration

- The Budget Request to RL and DOE-HQ - Due May 20, 2002.
- Support to Life Cycle Cost Reduction – ongoing.

### ECP

- ECP-02-404, Air Operating Permit (AOP) Annual Certification Report - Due May 30, 2002.
- 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 2001 Hanford Site Annual Polychlorinated Biphenyl (PCB) Document Log - Due June 24, 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**

- Initial VKC Projects identified to date include:
  - FH Facility Procedures – Due July 1, 2002
  - FH Environmental Compliance Permitting - Due June 1, 2002
  - CH2M HILL Hanford Group, Inc.'s (CHG's) Technical Procedures – Due July 1, 2002
  - CHG Administrative Procedures – Due October 1, 2002.

**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. Due - 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 actions, and monitor implementation of the adjustments made. The report will include actions taken, successes, and future path forward. Due - June 30, 2002.
- Determine if Vivid Learning Systems contract should be re-competed at contract expiration based on feedback from RL, ORP, and all contractors who use their service. Due - May 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	1887	1900	1675	13	1%	225	12%	3,989	
WBS 3.4.1.2 ECP	4589	4589	4128	0	0%	461	11%	9,297	
WBS 3.4.1.4 SE&I	391	391	394	0	0%	-2	-1%	887	
WBS 3.4.1.5 IRM	5135	5135	5670	0	0%	-535	-11%	10,408	
WBS 3.4.1.6 Training	2442	2482	2213	40	2%	269	11%	5,171	
Total	14444	14497	14080	54	1%	418	3%	29,753	

**FY TO DATE SCHEDULE / COST PERFORMANCE**

All schedule variances in PBS RL-SS01 are within established thresholds. The \$0.42M (3 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: (\$0.05M)

All schedule variances are within established thresholds.

## Cost Variance Analysis: (+ \$0.42M)

### 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 unfavorable cost variance is within established thresholds and within the plan.

**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 due mainly to less than planned revenue. Currently anticipating that revenue will increase in the last half of the fiscal year.

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

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

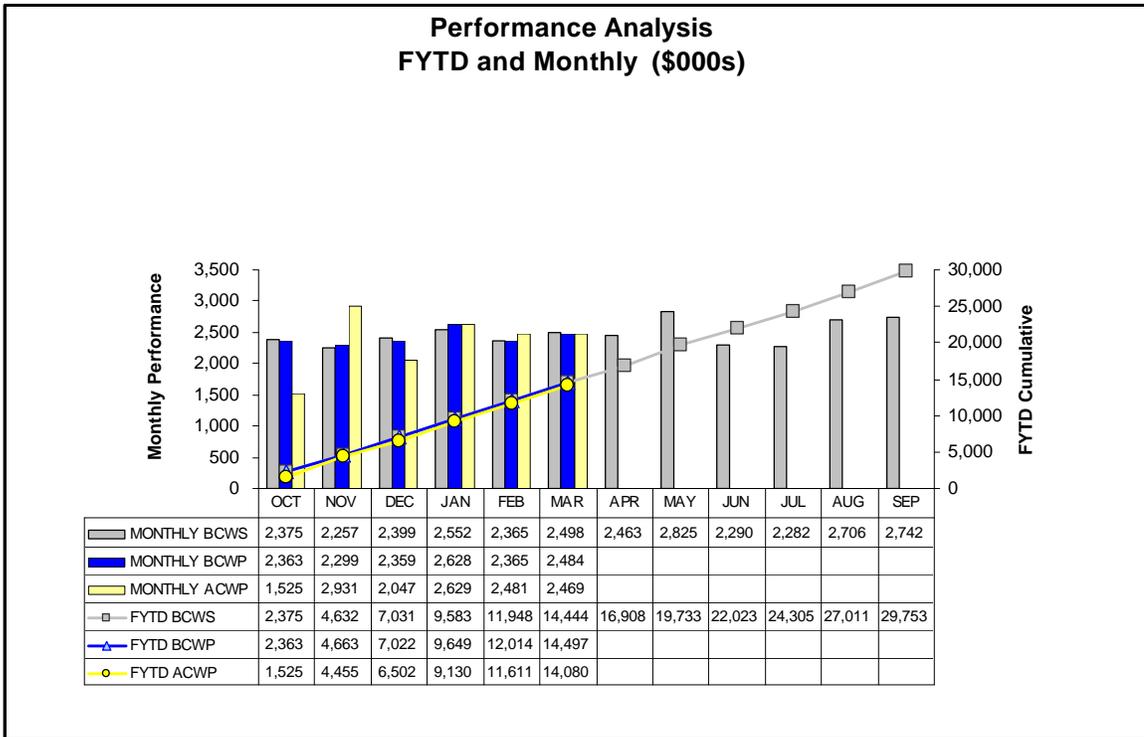
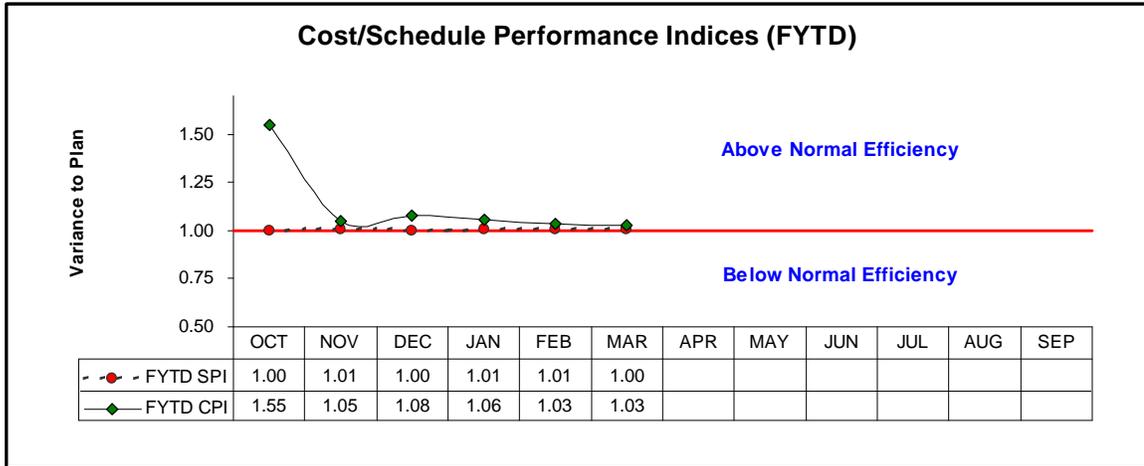
### TRAINING

**Description/Cause:** The favorable cost variance is a result of implementing mandatory FYSF reductions through vacant positions not being filled, efficiencies, and reduction of force.

**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>	\$ 27,393	\$ 27,427	\$ (34)
<b>Total</b>	\$ 27,393	\$ 27,427	\$ (34)

[Status through March 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 ISSUES

None to report.

### REGULATORY ISSUES

**Issue: Annual Land Disposal Restrictions (LDR) Reporting** — FH is responsible for the coordination and integration of the annual Hanford Site LDR Report with each Hanford Site contractor (CHG, Bechtel Hanford Inc. (BHI), Pacific Northwest National Laboratory [PNNL]) remaining responsible for the accuracy of their data contained in the document. The 2000 LDR Report was delivered to RL on June 25, 2001, in accordance with our contractual baseline and TPA Milestone M-26-01K. Ecology found the document incomplete and took the position that some of the most critical requirements of the LDR Report were omitted such as schedules and milestones for characterization and treatment of particular waste streams. Ecology initiated the TPA dispute resolution process on November 28, 2001.

**Impacts:** The 2001 LDR Report is currently in preparation and is on schedule for issuance on April 30, 2002. The above dispute may require modifications to the 2001 report, which will require an extension to the April 30th issue date.

**Corrective Action:** The dispute issues were resolved at the project manager's level on March 14, 2002, thereby approving the 2000 LDR Report. The 2001 LDR report is on schedule to be issued by April 30, 2002.

### 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)		
SS01-02-001 3.4.1.1	2/8/02	Baseline Assumptions Adjustments		-123.2		In Process
SS01-02-002 3.4.1.2	2/8/02	Baseline Assumptions Adjustments		-54.9		In Process
SS01-02-003 3.4.1.5	2/8/02	Baseline Assumptions Adjustments		-228.1		In Process
SS01-02-004 3.4.1.6	2/8/02	Baseline Assumptions Adjustments		-202.3		In Process
SS01-02-005 3.4.1.4	2/8/02	Baseline Assumptions Adjustments		-7.6		In Process
SS01-02-006 3.4.1.6	2/26/02	Revision to Contract Statement of Work and Deliverable		0.0		In Process
SS01-02-007 3.4.1.5	3/7/02	Transfer of geospatial management work scope from PBS SS01 to PBS SS02		-5.9		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.