



Section L

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 September 2002.

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

TOP 5 ACCOMPLISHMENTS FOR FY 2002

Planning & Integration (P&I) WBS 3.4.1.1

Central Plateau Transition ^{3/4} A transition orientation and training for incoming Project Controls and Project Management staff was developed and conducted by the Baseline Integration group. Among the areas covered in the overview training was an orientation to FH's Project Controls Systems and Primavera (P3) Coding and Usage.

FY 2004 Budget Formulation Process ^{3/4} The Operational Planning group coordinated the FY 2004 Budget Formulation exercise. FY 2004 target funding amounts were prioritized by the projects, finalized by RL, and loaded into the Integrated Priority List module (IPLM). Peer Review narratives supporting the funding prioritization profiles were also input and transmitted by RL to DOE-HQ's Integrated Planning, Accountability, and Budgeting System. At the request of DOE-HQ, Operational Planning coordinated an effort to develop liability categories and updated uncertainty scores for each FH PBS. This effort was part of the process to develop the environmental liability estimates required by DOE. It required FH projects to develop risk scores and liability assignments at Level 4 of the work breakdown structure (WBS). In addition, narratives were provided that described the basis for scoring assignments. Operational Planning staff continued providing support to the Internal Audit staff in connection with the audit of both the FY 2003 and FY 2004 budget formulation process.

The Monthly Environmental Management Performance Report (EMPR) — The EMPR was produced and delivered to RL and DOE-HQ on or before the due dates this fiscal year.

Reports and support in baseline/funding management ^{3/4} In March FH implemented another decision-making tool, the "big sheet". The submittal of the Big Sheet was consistent with RL's requested format and populated with current data from the approved baseline. FH and RL evaluated the report, made adjustments and enhanced its utility. Information from this document is being integrated by FH into RL's database.

FH Project Baseline Update for FY 2003 execution ^{3/4} The baseline update planning assumptions and schedule were finalized and incorporated into guidance for FH Sub-projects. The guidance included the planning basis for WBS scope transfers, updated pricing rates, contract work scope changes, and incorporation of changes in funding of variable direct services as part of the proposed accounting practice change for "City Manager" activities. The guidance also included assumptions for baseline updates associated with accelerations identified in the Performance Management Plan for the Accelerated Cleanup of the Hanford Site (PMP).

Environmental Compliance Program (ECP) WBS 3.4.1.2

Air Operating Permit (AOP) Annual Compliance Certification Report and AOP Semiannual Reports ^{3/4} These reports are the first site-wide air operating reports of this type for Hanford and required certification by top executives from all site contractors and RL manager. The Hanford Site AOP is the largest and most complex in the U.S. Environmental Protection Agency (EPA) Region 10. It contains more than 370 emission units and more than 3,000 conditions. It includes emission units operated by five contractors. These contractors report through two DOE offices [RL and the Office of River Protection (DOE-ORP)]. Administration and enforcement of the AOP is divided among four agencies [EPA, Washington State Department of Ecology (Ecology), Washington State Department of Health (WDOH), and the Benton Clean Air Authority (BCAA)]. Fluor Hanford (FH) Environment and Regulation (E&R) coordinates these challenges and developed a new data management tool to combine with existing web technologies to prepare the required reports. The success of this combination of coordination and technology is verified by the fact that all three reports were delivered to the agencies ahead of the due dates. Failure to do so could have resulted in fines of \$25,000 per day.

Modification E Settlement ^{3/4} Ecology issued Revision 7 of the Hanford Facility Resource Conservation and Recovery Act of 1976 (RCRA) Permit (Modification E) on February 28, 2001. DOE filed a Notice of Appeal of the revision with the Pollution Control Hearings Board (PCHB) on March 30, 2001. On September 30, 2002, RL, FH, Bechtel Hanford, Inc. (BHI), Pacific Northwest National Laboratory (PNNL), and CH2M HILL Hanford Group, Inc. (CHG), joined Ecology in filing a Settlement Agreement and Stipulation on Manner of Dismissal with the PCHB (PCHB 01-137). Although the vast majority of issues raised during the litigation had been fully resolved, a number of matters arose during and subsequent to the public comment period on the revised Modification E that required further negotiations by the parties. Faced with the impending PCHB deadline and wishing to give the parties the opportunity to resolve these matters, it was determined to revoke the permitting action on Revision 7 (Modification E), thereby eliminating the basis for the ongoing legal challenge.

CY 2001 Land Disposal Restrictions Report ^{3/4} The finalized CY 2001 Land Disposal Restrictions (LDR) Report was transmitted to RL on Tuesday, April 16, 2002 (Correspondence #FH-0201641). RL delivered the finalized CY 2001 LDR Report to the Ecology and EPA offices on Tuesday, April 30, 2002, fulfilling TPA Milestone M-026L on the due date. After several reviews, workshops, and revisions, the 2001 LDR Report was approved by Ecology on August 5, 2002.

ABCASH 2 — ABCASH 2 was launched in December 2001. ABCASH, which stands for Automated Bar Coding of All Samples at Hanford, is a powerful computer program that stores the majority of the environmental, effluent, and indoor radiological monitoring data accumulated at the Hanford Site by BHI, CHG, and FH. Chain-of-custody histories keyed to the bar coding of samples are an essential part of the data. ABCASH 2 was needed to replace its pre-existing version, which was based on the antiquated DOS operating system. Besides being fully compatible with Windows operating platforms, ABCASH 2 is user-friendly and should have a lengthy service life owing to its flexibility for enhancements as a relational database. The Hanford ID numbers of all sample handlers are entered into ABCASH 2, thereby building the chain-of-custody record. This program also serves as the record database for analytical results determined at Waste Sampling and Characterization Facility and the 222-S Laboratory. Sample results are associated with a code unique to each sample location. ABCASH 2 is a mission-critical tool that provides data for regulatory compliance and is essential to the efficient tracking and trending of Hanford environmental and effluent samples.

PCB Hanford User's Guide (HUG) — The Hanford Toxic Substances Control Act (TSCA), Polychlorinated biphenyl (PCB) HUG was submitted to RL ahead of schedule on January 28, 2002 (Correspondence #FH-0101962 R5). The document provides guidance to environmental staff for addressing complex PCB compliance questions. The draft document was previously distributed through the DOE Complex as an example of proactive PCB management.

Systems Engineering and Integration (SE&I) WBS 3.4.1.4

Interface Management and Prime Contractor Integration — Issued a FH procedure and guidance document for managing interfaces to satisfy contract requirements and improve the FH business process. Worked with FH Projects and other Prime Contractors to resolve interface issues and improve site integration.

Life cycle responsibility for buildings and waste sites — Clarified life cycle responsibility assignments for Hanford buildings and waste sites. This information was used to develop FH and RL baseline reports. It was also used to support RL's validation of the Hanford Performance Management Plan against the River Corridor Contract Request for Proposal.

Transition of Environmental Information Systems from BHI to FH — Worked with FH and BHI Project representatives to successfully transition the Hanford Geographical Information System, Waste Information System, and Hanford Well Information System from BHI to FH.

Requirements Management — Developed an electronic version of the September baseline deliverable with "hot links" between the technical, schedule, and cost sections. Also developed a series of "linked" .html files to demonstrate flow down of requirements from the PHMC to the FH Projects' technical baseline. This work can be accessed via the Systems Engineering web page, the FH Contracts' web page, or HANDI.

Technical Analysis and Modeling — Provided the FH lead for the evaluation of moving cesium and strontium capsules from WESF to dry storage. Developed a site population forecast to support Hanford Site Operations strategic planning. Supported the PFP and Waste Management Projects' evaluation of how to disposition equipment contaminated with Transuranics that is too large for a standard burial box.

Information Resource Management (IRM) WBS 3.4.1.5

Five million IRM Safe Work Hours Celebration — LMIT employees, FH bargaining unit staff, and employees of subcontractor Qwest, joined in the celebration of Hanford IRM employees reaching five million safe hours without a lost work day.

LMSI Subcontract Successfully Negotiated — The IRM services subcontract was successfully negotiated and extended for five years with Lockheed Martin Services, Inc. (LMSI). IRM services included in the subcontract: desktop support (e.g. Help Desk, field computer repairs), telecommunication services (e.g., radios, pagers, telephones, telephone switch, etc.), network operation and maintenance, server operation and maintenance, records and information management, system development, system operation, system integration, etc. The new contract allows other Hanford contractors to acquire services directly from LMSI.

Business Management System (BMS) Upgrades — The PeopleSoft Human Resources and Finance modules were successfully upgraded, providing various system enhancements including a "web based" client application for Hanford Local Area Network (HLAN) end users, additional functionality, and no required client workstation administration. The following commercial, off-the-shelf products (Sunflower and PassPort) were also upgraded to support improved business systems and processes.

Virtual Knowledge Center/Integrated Document Management Systems (VKC/IDMS) Put Into Production — This was a major milestone in the implementation of software that provides automated workflows, electronic signatures, knowledge management, portals, electronic records, and an electronic document management system.

IRM Budget and Service Level Agreements — All IRM service level metrics met or exceeded requirements, and the IRM budget was reduced over \$7.8M below the FY 2001 baseline.

Training WBS 3.4.1.6

Voluntary Protection Program (VPP) ^{3/4} For its "sincere commitment to worker health and safety," the U.S. Department of Energy-Headquarters (DOE-HQ) VPP evaluation team officially awarded "Star Status" to the Volpentest HAMMER/Hanford Training organization September 19, 2002.

Management Information System (MIS) ^{3/4} During Fiscal Year (FY) 2002 the Training MIS group increased training records entry efficiency by ten percent over FY2001 by changing manual input to scanned entry. Facility-approved courses without attachments are now electronically input into the PeopleSoft system daily. Available to users within 24 hours of scanning, the cost-effective process eliminates hard copies and manual input, results in faster process time, and minimizes the chance of input error. Computer-based training courses are being offered to teach the new system to users.

Site Training Needs ^{3/4} To meet the needs of the Site, Training regularly adds "just-in-time" special release classes to avoid down time or work stoppages due to untrained workers. These classes support U.S. Department of Energy-Richland Operations Office, Bechtel Hanford, Inc., CH2M Hill Hanford Group, Inc., Spent Nuclear Fuel, Central Plateau Remediation Project, River Protection Project, Fluor Federal Services, Nuclear Material Stabilization, Analytical Services, and Waste Management. During FY2002, two 40-Hour and six 24-Hour HAZWOPER Initial classes were added to meet the needs of 166 students. Eighty-three special Respiratory Protection sessions were also added, training approximately 358 "just-in-time" individuals.

Web-based Training (WBT) ^{3/4} Training initiated a web-based Asbestos Awareness Refresher course in July 2002. The course has the potential for saving \$86K per year. The savings is realized by a decrease in the amount of time to complete the training, including student time away from work, and a decrease in course tuition compared to the stand-up version. In addition to annual savings, completing the design in-house minimized initial costs.

Hazardous Waste Training ^{3/4} A combination training class for the 40-Hour Hazardous Waste training, 24-Hour Hazardous Waste training, and Upgrade to 40-Hour Hazardous Waste training was piloted in March 2002. 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. The combination class is 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.

ADDITIONAL FY 2002 ACCOMPLISHMENTS

Planning & Integration (P&I) WBS 3.4.1.1

RL/FH Performance Management Meetings (PMMs) ^{3/4} FH conducted 11 PMMs this fiscal year with July's meeting being canceled. The PMM is a baseline review, the intent of which is to provide more detailed Sub-project performance information, and address such topics as accomplishments, safety information, cost and schedule data, schedules, performance incentives status, and issues. These meetings have significantly helped the understanding and provided a clear path forward to the work.

Environmental Compliance Program (ECP) WBS 3.4.1.2

Combined Permit Renewal Package — The scope of the State Waste Water Discharge renewal was increased to include all three site-wide categorical permits (ST 4508, ST 4509, and ST 4510). The combined permit renewal application package was completed and delivered to RL on November 28, 2001 (Correspondence #FH-0104600A.R2). RL and Ecology endorsed this combined permit as a streamlined and cost saving approach for the renewal of site-wide categorical permits.

Environmental Awareness Initiative — The 'E' awareness initiative began in January 2001 and is intended to improve environmental compliance and stewardship practices in daily work activities at the Hanford Site. As part of the initiative, the Environmental Stewardship Award was developed to recognize FH facilities that demonstrate strong environmental performance beyond environmental requirements. This award is the first of its kind in the DOE Complex. The award was presented to the River Corridor Project (RCP) at the Health and Safety EXPO on May 2, 2002. Additional environmental awareness initiative activities have included participation in Earth Day projects, environmental articles in the Hanford Reach, and application submittals for Washington State environmental awards.

Liquid Effluent Retention Facility (LERF) Groundwater Monitoring — FH's Environment and Regulation group facilitated the potential resolution of a long-standing issue over LERF groundwater monitoring for facility permit compliance. On July 24, 2002, FH transmitted a revised "Draft LERF Composite Liner Performance Monitoring Plan" to RL. RL transmitted the revised draft plan to Ecology on July 26, 2002, citing the critical need for continued LERF operation and early detection of liner degradation. On August 9, 2002, RL directed FH to take immediate action to implement the liner performance monitoring approach described in the revised draft plan.

Environmental Assessment for Waste Retrieval from Low-Level Burial Grounds — 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 completed by FH staff and signed by the RL manager on March 22, 2002. The FONSI decision allows for the retrieval of covered post-1970 transuranic waste drums and subsequent temporary storage or disposal.

Hanford Borrow Pits Environmental Assessment (EA) — The Hanford Borrow Pits EA prepared by FH resulted in a FONSI which was signed by the RL manager on October 10, 2001. DOE-ORP provided the funding for this RL EA. DOE-ORP and the Waste Treatment Plant (WTP) had indicated that the FONSI was needed as soon as possible so they could begin gravel extraction from Pit 30 to support WTP's start of construction.

Hanford RCRA Permit Board ^{3/4} The Hanford RCRA Permit Board (Board) met in May 2002. The Board consists of regulatory agency, DOE, and Hanford Site contractor personnel and is currently working to establish a charter. The board was reconvened to address issues that arise with the Hanford Facility RCRA Permit (HF RCRA Permit) and FH E&R has been instrumental in facilitating efforts. This Board will also be the forum used to define expectations for the 2004 HF RCRA Permit renewal.

Tracking and Trending of Data Associated with Stack Airborne Effluent Monitoring and Abatement Systems — RL committed to WDOH to track and trend data associated with stack airborne effluent monitoring/abatement systems. Per a WDOH Notice of Correction (requiring a site-wide response), data tracking/trending is necessary to ensure that negative trends and problems are identified and resolved early. Copies of the instructions/procedures used for tracking/trending RCP stack data were provided to RL for subsequent submittal to WDOH. Assessments were then conducted of various facilities for compliance with the new requirements of the HNF-RD-8703, "Air Quality - Radioactive Emissions", regarding tracking and trending of data associated with indicator devices on HEPA filtered

ventilation systems. Such tracking and trending provides assurance that abatement controls are operating as designed to ensure emissions are as low as reasonably achievable (ALARA).

Environmental Awareness Workshops — Multiple Environmental Awareness Workshops were conducted by FH E&R for contractor staff. These workshops addressed the following regulatory topics: Air Toxics; Potential to Emit; Real Estate Transfer; Dangerous Waste Designation; TSCA PCB Hanford Users Guide; Revision to HNF-PRO-459 Environmental Training; and Regulatory Inspection.

Demonstration of Requirements Equivalency — A demonstration of requirements equivalency regarding the HNF-RD-8703 (Air Quality - Radioactive Emissions) requirements for Continuous Air Monitoring (CAM) alarms on NESHAP major stacks was processed. The equivalency allowed the Canister Storage Building (CSB) to utilize occupational airspace CAM alarms to function as environmental alarms, allowing both of the CSB stack CAM alarm setpoints to continue addressing safety requirements so far as event recognition and categorization. Processing of this equivalency demonstration also supports a response to a closely related Problem Identification for Consideration, submitted by Spent Nuclear Fuels to the Environmental Center of Expertise.

TPA Negotiations — FH successfully completed one of the most intense negotiation periods in TPA history. Negotiations were completed for River Corridor, Central Plateau, Plutonium Finishing Plant, and FFTF. These negotiations required multiple months of working closely with the regulators, stakeholders, and the public to ensure a result that met the needs of all parties.

Systems Engineering and Integration (SE&I) WBS 3.4.1.4

HQ IPABS — Worked with the FH projects to provide integrated technical information for the HQ Integrated Planning, Accountability, and Budgeting System (IPABS) data feeds.

Waste Management Project (WMP) Strategic Planning — Supported the WMP Strategic Planning efforts.

Requirements Management initiative — Supported the Requirements Management initiative for Management Systems Re-alignment Project and updating the FH Management Plan, HNF-MP-001, to reflect current Organizational roles and responsibilities.

Implementation Plan — Provided the FH lead for supporting DOE's Implementation Plan for the DNFSB Recommendation 2000-2, Configuration Management of Vital Safety Systems.

Fluor Corporate Business Risk approach — Supported the FH Vice President for Business Systems in implementing the Fluor Corporate Business Risk approach.

Information Resource Management (IRM) WBS 3.4.1.5

IRM Long Range Operating Plan (LROP) — The Hanford IRM LROP was delivered. The LROP is a 5-year rolling operational plan for executing the Hanford IRM Strategic Plan published in August of 2001. Based upon a new way of doing strategic planning, the LROP is a dynamic, web-based tool that includes the baseline of all IRM activities for accomplishing the IRM strategies necessary for the Hanford IRM vision.

Wireless HLAN Deployments — a significant increase in the number of wireless HLAN deployments occurred in FY 2002. In particular, the installation and activation of the 200 East AP Tank Farms wireless Hanford Local Area Network (HLAN) system was completed. The project was very successful and allows for wireless access of HLAN in AP, AN, and AY Tank Farms in 200 East Area of Hanford. This

infrastructure allows customer access to Site information and applications via laptop computers and has been embraced by Tank Farms personnel and credited with reducing time required to access and input data into HLAN databases. Because of this project's success, a conceptual design and estimate for wireless HLAN coverage in various areas and buildings in the 200 East and 200 West Areas of Hanford was performed.

Material Accountability and Control (MAC-II) ^{3/4} MAC-II was updated to automate tracking of fuel from K-East to K-West Basins. IRM supported this upgrade, which serves as the repository of nuclear material accountability information for the Spent Nuclear Fuel (SNF) Project. MAC-II's upgrade was released on July 9, 2002 to provide accountability and control functions while minimizing the field paperwork by generating Accountability Data Sheets (ADS) to record and track the processing of the fuel from K-East to K-West. The ADSs incorporate operational and safeguards information to the extent practical, thus reducing the number of forms that need to be dealt with by the field crews.

Central Plateau Transition ^{3/4} IRM support for the Central Plateau transition included the movement of approximately 145,000 document records, 144 HLAN user accounts, four major site applications, eight additional facilities to the HLAN, and converting approximately 165 PC's from the Bechtel BLAN to HLAN. The effort to move and reconfigure all of the workstations occurred over the weekend of June 28, 2002 and the systems were up and functioning for the transitioned employees by the time they arrived at their work spaces on Monday. Thorough planning and preparation resulted in a smooth migration of user systems, data and applications over the transition weekend.

Gigabit Ethernet Upgrade to Hanford Local Area Network (HLAN) ^{3/4} The Gigabit Backbone is in production use, increasing HLAN backbone throughput 7-fold. All inter-campus Internet Protocol (IP) traffic is now being carried on the new HLAN Gigabit Backbone. Additionally, distribution layer devices in the 1100 Area have been upgraded to Gigabit speed and are now in production use. This will improve HLAN performance, particularly for system backups and during peak network traffic activity.

Independent Self Assessment Confirms Cyber Security Solutions ^{3/4} An independent self assessment of the cyber security posture of Hanford's HLAN network and HLAN connected clients was performed. The assessment confirmed the validity of the solutions implemented to address the issues found in the OA audit performed last summer.

Automation of trench monitoring ^{3/4} With IRM's support, the Trench 34 web application was implemented to automatically record data, on a scheduled basis, from a sensor on/in a trench. It will store the data and automatically generate and send a status report to the personnel responsible for tracking. This application eliminates the daily need for personnel to travel to the trench for the purpose of manually recording the data generated by the equipment associated with the trench.

Photography Services Converts to Digital ^{3/4} The Photography Services was transitioned from a "wet process" laboratory production to an all digital format with the move from the Government facilities in the 300 Area to the LMSI commercial space at 1981 Snyder. The move involved working with Asset Transition to transfer the photo lab equipment to the Tri-Cities Asset Reinvestment Company and the disposition of 50 years of accumulated materials to turn the 300 Area building over to FH Facilities. The move to digital eliminates the waste stream associated with the wet process.

Virtual Knowledge Center Integrated/Document Management Systems (VKC/IDMS) Web-based Training ^{3/4} In support of the site-wide implementation of the Livelink product, IRM, with support from Fluor Hanford Procurement, successfully completed negotiations with the Open Text vendor for a 5,000 seat license for their web-based training program. The ninety-five percent reduction from list price will result in a cost avoidance of approximately \$1.4 million over the anticipated three-year implementation window. This training program is accessed directly from the employee's desktop, providing just-in-time training at the individual's learning pace.

Electronic Approval of Records Inventory Disposition Schedules (RIDS) ^¾ The RIDS database provides for the electronic approval of RIDS, and users were notified to download the new version. Also provided was the revised Web System User's Guide, which was placed on the Records and Information Management (RIM) Web site.

Telecommunications Terminal Loop Elimination ^¾ The installation of a fiber multiplexer for voice circuits to support the elimination of leased terminal loops has been completed. This completes the terminal loop projects, which have accomplished a Hanford Site savings of approximately \$300,000 per year in reduced leased telecommunication line costs.

Correspondence Action Tracking System (CATS) replaced by e-STARS Software ^¾ Both DOERL and DOE-ORP are now using e-STARS as the action tracking system for their correspondence control groups. The new system is web-based, and replaces CATS, which was a legacy Lotus Notes application.

Comprehensive Wireless Telecommunications Plan ^¾ 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.

Surveillance Analytical Computer System (SACS) ^¾ SACS keeps track of liquid levels and temperatures in the tanks. Enhancements were made to the system to improve the ability to monitor the tanks. An interface has been completed to retrieve data from the ABCASH 2 system. New Continuous Air Monitoring sensors (CAMS) and weight factor sensors associated with Leak Detector Pits were added. Also, Liquid Observation Wells (LOW) information was added to the SACS database. These enhancements give the engineers additional data to better assess tank activity and possible releases to the environment.

Tri-Party Agreement Databases, Access Mechanism and Procedures Document Updated ^¾ This document, which is required for Ecology and the Environmental Protection Agency (EPA) to access databases related to the Tri-Party Agreement, was updated and available for use. The document identifies the procedures required to obtain access to the Hanford Site computer networks and the Tri-Party Agreement related databases. It addresses 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.

Training WBS 3.4.1.6

Continuous Improvement Activities ^¾ During FY2002, Training was tasked with "flowing down" a new FH Requirements Management System. The task included revising all Hanford Training documents, coordinating reviews of the revisions by Project training personnel and other affected parties, and reviewing all other FH documents referencing training. By September 2002, Training Requirements had been created, A Systems Approach to Training and Development of Training Qualification and Certification Programs had replaced approximately 12 existing documents, and four documents had been revised.

From October 2001 through June 2002 Training used the Systems Approach to Training process to evaluate five Site courses. During the evaluation process, Level I student feedback and course program files were reviewed and instructors and subject matter experts were interviewed. An August 2002 report described all courses as "complying with regulations, high in quality, and delivered appropriately."

Early in FY2002, FH senior management directed an initiative to develop a single Hazardous Energy Control Procedure for FH facilities and projects. As suggested by the Training Center of Expertise,

Training completed lesson plans for Train-the-Trainer classes. The plans were approved in July 2002, and the first class began in August 2002. By the end of September 2002, all four planned sessions had been completed.

During FY2002, Training supported the Project Operation Center in its efforts to determine the training needs for Design Authority Positions by preparing a needs analysis, functional analysis, draft syllabus, and draft objectives for a proposed Design Authority Training Overview. The activity was 1) in response to a RL perceived inadequacy in the training and knowledge of FH Design Authorities, 2) in response to a direction from RL to ensure all Design Authorities are trained according to a Secretary of Energy letter dated February 20, 2001, and 3) in support of a request from the FH Chief Engineer.

Training re-competed the delivery of Site-wide technical training support for Hanford contractors. A collaborative process was established to ensure all Site contractor and DOE training needs were addressed. The contract was awarded to EnergX-TFE on October 17, 2001. The new training subcontractor initiated performance of its contract December 3, 2001. The transition to training delivery was relatively smooth.

ACCOMPLISHMENTS THIS REPORTING PERIOD

Planning & Integration (P&I) WBS 3.4.1.1

Required Government Responses and Actions (RGRA) ^{3/4} The monthly RGRA list was submitted electronically to RL on September 23, 2002, two days ahead of schedule. This submission focused on a 90-day look ahead.

Performance Measures - Dashboard ^{3/4} Starting with September performance reporting FH, working with RL, developed a new reporting format focusing on performance of key metrics. Each metric is rated green, yellow, or red based upon FH/RL agreed-to criteria. Strategic Planning and Integration (SP&I) coordinates the Project Performance dashboard, which entails contract-to-date schedule performance index/cost performance index, milestones, EM Control Points (funds control), Baseline Change Request (BCR) and RGRA turnaround times. The areas are rolled to a composite score for Project Performance based upon a weighted criteria basis.

FH Baseline/Funding Management Summary (B/FMS), (also known as the "Big Sheet") ^{3/4} FH provided the monthly B/FMS to RL on September 25, 2002 as scheduled. This product included FY 2002 performance data at level 4 of the work breakdown structure, including fiscal year-to-date and contract to-date, fiscal year spend forecast (FYSF), estimate at completion (EAC), and FH Funding by Program Business Summary (PBS). It also provided Lifecycle data at the PBS level (Level 3) by year for the contract period, including FH anticipated contract funding. Lifecycle cost baseline detail is provided from FY 1997 through FY 2046. The third portion of the B/FMS is a reconciliation of the current baseline as adjusted by approved BCRs, summarized at the PBS level.

Startup Workshop ^{3/4} Operational Planning held a fiscal year startup workshop on September 20, 2002. The workshop was conducted for project personnel to orient them on changes to processes, system changes, coding requirements, etc. The workshop was also a forum to remind field personnel of actions required to ensure a successful startup (i.e., setting up and communicating charge codes to employees, etc.).

Environmental Management Performance Report (EMPR) ^{3/4} Bound copies of the July EMPR were provided to RL on September 10, 2002 as scheduled.

FH Project Controls Procedure, Policies, and Guidance Document Updates ^{3/4} An updated Change Management procedure was issued for compliance on September 6, 2002. The revised

procedure revamped the requirements section to conform to newly published format and content changes mandated by the Requirements Management group. Specifically, all Site procedures were required to identify the source of requirements identified within them, and then classify them as self-imposed, interpretive, verbatim, or derived from an order, agreement, or regulation. Moreover, the revision was necessary to capture process changes that were negotiated with RL in July 2002. A guide document, identifying specific formats and expectations related to change management is planned for issuance in October.

Environmental Compliance Program (ECP) WBS 3.4.1.2

QA Assessment of TPA Implementation ^{3/4} QA assessment report FH-QA-SURV-02-007, Surveillance of TPA Implementation by Fluor, was completed and issued on September 16, 2002. This assessment, requested by RL, was completed on August 29, 2002, and focused on surveillance of FH flow-down requirements from the Tri-Party Agreement to facilities and projects on the Hanford Site.

Air Effluent/Emissions Reporting — Tracked Deliverable ECP-02-809 was completed September 30, 2002, with the issuance of HNF-1974, Revision 1, Hanford Site Radionuclide National Emission Standards for Hazardous Air Pollutants Stack Source Assessment.

Annual Environmental Permitting Status Report — The Annual Environmental Permitting Status Report (DOE/RL-96-63, Rev 6) was submitted to RL on September 18, 2002, completing Tracked Deliverable ECP-02-708.

NEPA Source Guide — The National Environmental Policy Act of 1969 (NEPA) Source Guide was submitted to RL on September 30, 2002, completing Tracked Deliverable ECP-02-201.

Quarterly Class 1 Modification Notification for First Quarter 2003 — Modifications were made to the List of Attachments (Attachment 33), the Part I (Condition I.H), Part III (305-B Storage Facility and PUREX Storage Tunnels), Part V (303-K Storage Facility), and general maintenance of the RCRA Permit, Dangerous Waste portion. The package was delivered to RL on September 30, 2002, completing Tracked Deliverable ECP-03-701.

Re-registration of the Hanford Site Underground Injection Control Wells (UICs) — Placement of previously submitted information on Ecology spreadsheets of the Hanford Site Underground Injection Control (UICs) Wells was completed and forwarded to Ecology on September 23, 2002. This information had previously been submitted to Ecology in document form (DOE/RL-88-11, Rev. 2) in March 2001. The scheduled completion date for this action was March 2003.

Purgewater Part A Compliance Issue — On September 10, 2002, Ecology rescinded the letter relating to the denial of the Part A, Form 3 Permit Application from FH for the 600 Area Purgewater Storage and Treatment Facility. The Central Plateau Project will continue to work towards closing this TSD unit. A closure schedule will be negotiated with Ecology.

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

- September 5, 2002, WDOH conducted an inspection of the 292-B-1 Stack located at B Plant, in the 200 East Area.
- September 12, 2002, WDOH conducted an inspection of the 291-Z-1 and Z-7 Stacks located at Z Plant, in the 200 West Area.

- September 19, 2002, WDOH conducted an inspection of AOP "legacy sources," at the Effluent Treatment Facility in the 200 East Area, the caissons located in the low-level burial grounds, and the 2706-T tank vents at T Plant, in the 200 West Area.
- September 23, 2002, WDOH conducted a sampling event at the Uranium Tri-Oxide Plant (UO₃) in the 200 West Area. WDOH sampled and removed soil contaminated with uranium.
- Ecology requested and E&R provided lists of up-to-date Treatment Storage and Disposal Facilities, 90-day and Satellite Accumulation Areas.

Spill and Release Reporting — An appropriate reporting response was coordinated for a non-reportable release of a hazardous substance and/or a petroleum product released to the environment. This release was cleaned up and disposed of per state and federal requirements. There were no reportable events with a release to the environment and five reportable code non-compliance events reported directly to the FH Single-Point-of-Contact through the Occurrence Notification Center.

Systems Engineering and Integration (SE&I) WBS 3.4.1.4

System Engineering Management System Solution ^{3/4} 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 FH Contracts' organization to develop a proposal to clarify the statement of work section in the PHMC. This work will result in a more direct connection of the requirements invoked by the PHMC to the statements of work.
- Worked with CHG and FH Projects to resolve interface management issues associated with the CSB and the 242-A evaporator.

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

- Provided an update to the technical baseline that incorporated several approved Project level BCRs.
- Worked with FFTF and PFP Project representatives to complete risk analyses on their revised baselines. This work incorporated the Fluor corporate Business Risk Management Framework (BRMF) tool.

Information Resource Management (IRM) WBS 3.4.1.5

Virtual Knowledge Center/Integrated Document Management System (VKC-IDMS) —

- The migration plan (HNF-12352) was published on August 30, 2002.
- The letter (FH-0103726A R10) concerning the process for changing the medium of records from paper or microfilm to electronic was submitted to RL on August 30, 2002.
- Users in FH Compliance Support (facility procedures) were provided with systems set up and hands on training.
- The last two people in the FH Permitting activities received hands on system training.
- The conference room pilots for CH2M Hill Hanford Group's Administrative Procedures were completed. Comments received in the pilots are resulting in changes to the workflows.
- Presentations on the VKC/IDMS were conducted for the Project Operation Center and Facility Management.

Hanford Computer Ordering System (HCOS) ^{3/4} The Hanford Computer Ordering System (HCOS) is now in production. The system provides authorized employees to order standard computer equipment

via the Hanford Intranet. Previously, equipment was ordered through a local vendor. HCOS is a more cost effective and streamlined process for the Hanford user.

L-304 Hanford Site Emergency Alerting System Integration to Existing Notification System (HSEAS) ^{3/4} Emergency Preparedness Management and IRM have approved the document "HNF-12050, L-304 HSEAS Integration Project Study" that was released for distribution on September 20, 2002. The HSEAS will be capable of alerting ninety-five percent of all Hanford workers (inside buildings, outside areas, and in transit) and one hundred percent of all personnel on the Columbia River during emergencies within three minutes.

Assessment of University of Washington Public Information Repository (PIR) — On September 12, representatives from Hanford conducted the annual assessment of the PIR at the University of Washington (UW). The scope of the assessment included verifying that all documents currently out for public comment were readily available, and interviewing library staff regarding the level of usage and whether or not any problems existed with the web site or the current system. Responses from the UW staff were positive for the web site and the system.

Training WBS 3.4.1.6

Hazardous Waste Training — Two hundred and six students were trained in hazardous waste handling. Nine, 8-hour refresher classes were conducted.

Respiratory Training — One hundred and forty-seven students were trained in respiratory protection. Nineteen respiratory protection refresher classes and two respiratory protection initial classes were conducted.

Mask Fit Training — Two hundred and seventy-nine students were processed through Mask Fit.

Occupational Safety and Health Training ^{3/4} Seven sessions were delivered for 33 students on various hoisting and rigging topics. The topics included basic crane and rigging, aerial lift safety, load securing, and inspection of overhead cranes.

Nuclear Safety Training ^{3/4} Training supported the following Nuclear Safety training activities during September 2002:

- Six sessions of nuclear criticality safety training were delivered for 27 students.
- Thirty-nine sessions of radiation worker training were held. Twenty-four students attended four sessions of initial radiation worker training and 598 students attended 35 sessions of radiation worker accelerated and retraining.
- Eight sessions of Radiological Control Technician (RCT) biennial re-qualification cycle (HR2012) were delivered for 58 students. Since April 2002, approximately 400 RCTs and Radiological Control exempt staff have attended the training.

Emergency Preparedness (EP) Training — Training supported the following EP training activities during September 2002:

- Hanford Incident Command System Refresher Training – 85 students
- Building Emergency Director Initial Training – 5 students
- Building Emergency Director Refresher Training – 22 students
- Building Warden Refresher Training – 11 students

Web-Based Training ³/₄ Training offers WBT through the HAMMER Courseware Management System (HAMMERCMS). In September 2002, HAMMERCMS recorded 4,648 course completions. This includes 1,011 Hanford General Employee Training (HGET) student completions.

Deliverable Completion ³/₄ The following deliverables were completed during September 2002:

- Use customer satisfaction report to determine training effectiveness for three courses (courses to be determined jointly by FH and RL-OTS).
- Offer an Instructor Continuing Training Program and ensure that each qualified instructor falling within the purview of the PHMC contract attend at least one offering annually or provide evidence of other continuing training during the year and provide report.
- Reduce customizations of the PeopleSoft Training Module and Integrated Training Electronic Matrix (ITEM) panels by 10 percent of the FY2001 level.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Nothing to report.

Opportunities for Improvement

Information Resource Management

Analytical Services Support 222-S Paperless Demonstration ³/₄ This project, if funded, will provide a computing environment for the 222-S labs hot cells to allow hands-free computer navigation through procedures, while a technician is performing work in a hot cell. The application will reduce personnel exposure by reducing the number of individuals required in a radiological zone to perform a task, and reduce the time extremities are in contact with materials by eliminating the need to enter and leave a glove box. For the demo, the user will be able to wear the computer and use voice commands to navigate two procedures.

HLAN to Wye Barricade ³/₄ This is a significant completion, in that this is a new implementation of High Density Subscriber Line (HDSL) in conjunction with multiple outside repeaters that utilize existing copper facilities. The traditional way to deliver HLAN is to plow fiber optics or a point-to-point wireless solution, which can be cost prohibitive. This installation provided a new way to allow users in remote locations to utilize HLAN.

Environmental Compliance Program

Three Regulatory Analysis Memorandums (RAMS) were issued. RAMs are used to provide formal clarification or interpretation of a regulation. The three RAMs addressed the following questions, the answers to which represent possible opportunities for improvements:

1. Are underground storage tanks that store red dye diesel fuel for a backup generator (with onsite consumption) exempted from WAC 173-360, Underground Storage Regulations?
2. Does an underground storage tank that stores diesel fuel for a backup generator (with onsite consumption) and then switch to red dye diesel fuel undergo a change-in-service as defined in WAC-173-360-385(5)?
3. Should FH use Fluor Federal Services to provide Washington State licensed professional engineers for use in satisfying WAC independent qualified registered professional engineers certification requirements?

UPCOMING ACTIVITIES

Planning & Integration

- Support to Life Cycle Cost reductions $\frac{3}{4}$ ongoing

Environmental Compliance Program Environmental Compliance Program

- ECP-03-702, Closure/Post-closure Cost Estimate $\frac{3}{4}$ due October 17, 2002
- ECP-03-801, Quarter 1 NESHAPs Status Report $\frac{3}{4}$ due October 25, 2002
- ECP-03-301, Annual Benton Clean Air Authority $\frac{3}{4}$ due December 31, 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 $\frac{3}{4}$ due December 2002.

Information Resource Management Information Resource Management

- **IRM Contract Negotiations** $\frac{3}{4}$ Lockheed Martin's response to the FY2003-FY2006 Statement of Work and RFP for IRM Services is under review by Fluor Hanford, including the details for the services negotiated to cover the remaining four years of the contract.
- **Windows XP** $\frac{3}{4}$ planning to migrate to Windows XP by June 30, 2003. Impacts include PC replacement/upgrades for a significant number of users and change management is now being addressed.
- **Narrowband Radio Migration Project** $\frac{3}{4}$ The Narrowband Radio Migration Project modifies or replaces existing radio systems to insure the Hanford radio systems operate in compliance with the National Telecommunication and Information Administration (NTIA) Federal Narrowband Mandate by January 1, 2005. This project is divided into two initial phases:
 1. **Safeguards and Security Radio System Phase:** The Safeguard and Security Radio Project is the first phase of the Narrowband Radio Project. IRM reviewed the Request for Proposal (RFP) evaluation with Hanford Fire, Hanford Patrol, and Emergency Preparedness groups (Safeguard and Security customers).
 2. **General Purpose Radio System Phase:** The Request for Information (RFI) has been published and is intended to generate local vendor interest in leasing commercial frequencies to Hanford so existing radio infrastructure can be reutilized. If successful, this innovative approach could generate approximately a \$2M cost avoidance by providing an alternative to installing costly commercial infrastructure for supporting general-purpose radio communications.

Training

Nothing to report.

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	3,989	3,989	2,983	0	0.0%	1,006	25.2%	3,989
WBS 3.4.1.2	ECP	9,297	9,297	8,480	0	0.0%	817	8.8%	9,297
WBS 3.4.1.4	SE	887	887	702	0	0.0%	186	20.9%	887
WBS 3.4.1.5	IRM	10,439	10,439	10,735	0	0.0%	-295	-2.8%	10,438
WBS 3.4.1.6	Training	5,171	5,171	4,151	0	0.0%	1,020	19.7%	5,171
	Total	29,784	29,784	27,051	0	0.0%	2,734	9.2%	29,783

FY TO DATE SCHEDULE / COST PERFORMANCE

All schedule variances in PBS RL-SS01 are within established thresholds. The \$2.7 M (9.2 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: (\$0.0M)

All schedule variances are within established thresholds.

Cost Variance Analysis: (+ \$2.7M)

3.4.1.1 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.

3.4.1.2 Environmental Compliance Program

Description/Cause: The favorable cost variance is within established thresholds and 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.

3.4.1.4 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 significant project impact at this time.

Corrective Action: None at this time.

3.4.1.5 Information Resource Management

Description/Cause: IRM: The unfavorable cost variance is within established thresholds.

Impact: There is no project impact at this time.

Corrective Action: None at this time.

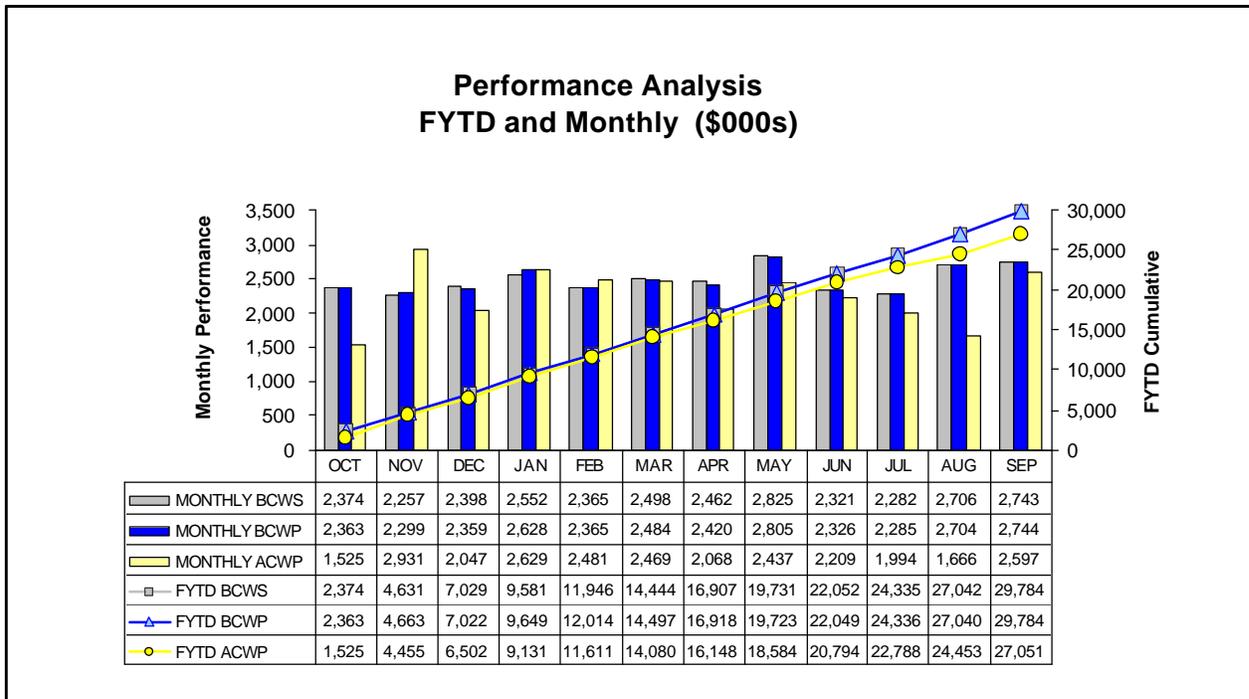
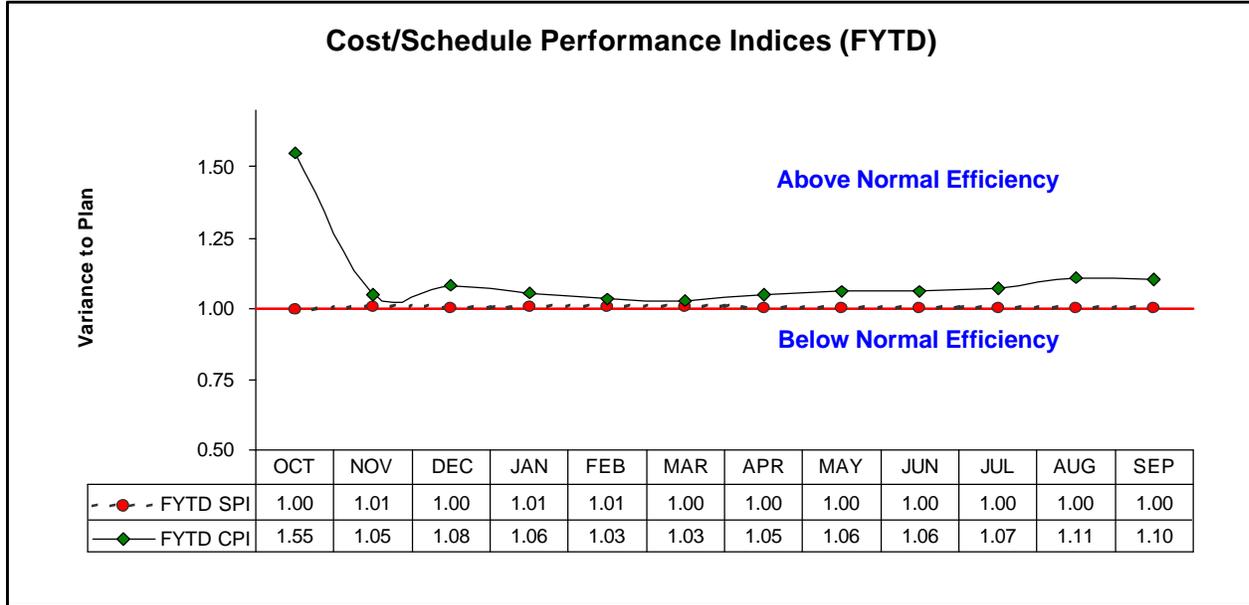
3.4.1.6 Training

Description/Cause: The favorable cost variance is a result of company level credit passbacks, labor underruns due to reductions of force, efficiencies, procurements placed on hold due to spending restrictions, and additional revenue than originally planned. The increase in revenue is due to an increase in shared service assessments to CHG; direct distributable higher than planned; and additional revenue from The Center to Protect Workers' Rights for additional worker instructor hours. In addition, Site demands for training considerably lower during August and September than anticipated. Historically, August and September have the greatest student volume than any other month.

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 ACTUALS (\$000)

	FH Funds Reallocation	September Actuals	Variance
3.4.1 Site Integration			
SS01			
Post 2006 - Operating	\$ 27,952	\$ 27,051	\$ 901
Total	\$ 27,952	\$ 27,051	\$ 901

[Status through September 2002]

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		Returned without action
FH-2002-020 3.4.1	7/11/02	Workscope Adjustment to Document the Cost Savings to the Correct PBS		108.0	9/12/02	Approved

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.