



Section J

National Programs

SUMMARY

DOE EM is responsible for a variety of National Programs. DOE-HQ typically provides operations policy and programmatic guidance to one or more field office that serve as lead for individual programs. FH currently supports the following National Programs: Transportation and Packaging (PBS OT02) and Pollution Prevention and Waste Minimization (PBS WM07).

Transportation and Packaging provides full-service transportation and packaging capabilities. Packaging services for radioactive and hazardous cargo is provided, including regulatory safety-basis documentation, certification, and licensing. Packaging plans and logistical studies for major shipping campaigns are also provided, as well as approved training courses in transportation safety and waste management. Transportation and traffic logistics management, engineering and operational support to offsite customers, carrier selection and evaluation, automated transportation management systems used by the U.S. Department of Energy (DOE) complex and commercial vendors, and international transport of hazardous and radioactive packages are other services provided.

Pollution Prevention and Waste Minimization (P2/WMin) coordinates the development and implementation of a Hanford Site P2/WMin Program to comply with Federal, state, and DOE directives. The program's purpose is to achieve Site objectives through effective and efficient methodologies tailored to generator activities and operations.

NOTE: Unless otherwise noted, all other information is as of September 30, 2001.

TOP 5 ACCOMPLISHMENTS FOR FY 2001

Transportation and Packaging (3)

Fluor Hanford (FH) and its subcontractor Duratek completely revised and enhanced RADCALC, a software program used for characterizing radioactive material shipments. It is used for calculating hydrogen gas generation for different waste matrixes (including WIPP shipments) for transport under DOT rules. The programming language was updated to Oracle and the program was completely validated and verified in accordance with applicable QA standards.

FH and its subcontractor Duratek recently demonstrated DOE's Automated Transportation Management System to the Government Services Administration (GSA). This demonstration was performed over WEBEX. GSA was very impressed with the program's capabilities to manage transportation and traffic management operations. A follow-up demonstration will be performed in Washington DC later this calendar year.

FH and its subcontractor Duratek has upgraded DOE's Motor Carrier Evaluation Program performance standards based on DOE's increased emphasis on shipment and carrier security. Driver hiring practices and training for driver security awareness are two items getting more in-depth attention. The number of carrier evaluations are expected to increase in an effort to apply these updated standards.

Pollution Prevention and Waste Minimization (5)

The Sitewide Cost Savings/Avoidance for the Hanford Site this fiscal year was approximately thirty-four million dollars (\$34M).

The site accomplished a waste avoidance (routine and non-routine) of over 55,300 cubic meters of low level waste/mixed low level waste, over 33,300 metric tons of Hazardous waste, and over 3,400 metric

tons of Sanitary waste. The purchase of EPA designated products containing recycled content was 99.3 percent.

The Hanford Site received two White House Closing the Circle Awards: 1) Environmental Preferability and 2) Recycling. The Hanford Site also received two DOE Pollution Prevention Awards: 1) Return-on-Investment and 2) Sowing the Seeds for Change.

This fiscal year Pollution Prevention/Waste Minimization implemented seven Pollution Prevention High Return on Investment (ROI) projects with a savings/avoidance of \$3.5M and waste reduction of over 10,000 cubic meters at a cost of \$1.0M.

The small business pollution prevention opportunity assessment program is a cooperative effort between DOE, Cities of Kennewick and Richland, and FH's Pollution Prevention/Waste Minimization group. The program was successful in identifying potential waste, energy and dollar savings for three small businesses. If all the identified opportunities for waste and energy savings are implemented, the participating small businesses will realize yearly savings of over \$95,000. Since its inception in 1997, over 42 small businesses have participated in the program.

ADDITIONAL FY2001 ACCOMPLISHMENTS

FH met all waste generation goals for MLLW, LLW, Hazardous Waste, and Sanitary Waste during FY 2001. FH also was well above the 45 percent recycling goal established by DOE and met 100 percent Affirmative Procurement with exceptions during FY 2001.

The SWITS 341 program was validated. The Non Radioactive waste is being counted based on its offsite shipment date. This date was used in order to prevent any double counting of waste, as containers may move around the site. The SWITS 341 report was established based on a DOE-HQ directive and will be used as the source of dates for routine/cleanup waste categorization per the Strategy for Meeting the Secretary of Energy's Hanford Site FY 2001 Pollution Prevention Goals.

Six Pollution Prevention Opportunity Assessments (P2OAs) were conducted based on waste generating activities that were applicable to multiple facilities or single streams producing significant quantities of waste. The activities selected included hazardous waste from macromolecular studies, laboratory counting room LLW and MLLW, TRU and LLW waste from glove use, TRU waste from management of satellite accumulation areas, and TRU and MLLW resulting from radiological control area configurations. Several cost effective opportunities were identified for implementation.

FY 2001 SCHEDULE / COST PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

By PBS		FYTD							
		BCWS	BCWP	ACWP	SV	%	CV	%	BAC
PBS OT02	Transportation & Packaging (RL 7601)	\$ 2,056	\$ 2,060	\$ 1,962	\$ 4	0%	\$ 98	5%	\$ 2,056
PBS WM07	Waste Minimization (RLHQ 7770)	\$ 3,607	\$ 3,607	\$ 2,230	\$ -	0%	\$ 1,377	38%	\$ 3,607
Total		\$ 5,663	\$ 5,667	\$ 4,192	\$ 4	0%	\$ 1,475	26%	\$ 5,663

FY TO DATE SCHEDULE / COST PERFORMANCE

The schedule variance is insignificant. The \$1.5 M (26 percent) favorable cost variance is mainly attributed to staffing shortfalls.

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)

Transportation and Packaging – 1.11.1/OT02

Description and Cause: The schedule variance is insignificant.

Impact: None.

Corrective Action: Nothing to report at this time.

Pollution Prevention/Waste Minimization – 1.11.1/WM07

Description and Cause: There is no schedule variance at this time.

Impact: None.

Corrective Action: Nothing to report at this time.

Cost Variance Analysis: (+\$1.5M)

Transportation and Packaging – 1.11.1/OT02

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

Impact: None.

Corrective Action: None.

Pollution Prevention/Waste Minimization – 1.11.1/WM07

Description and Cause: The favorable cost variance is due to staffing shortfalls and ROI projects behind due to plant priority work.

Impact: None.

Corrective Action: Actuals will catch up to budget as ROI projects are completed.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)

