

Safeguards and Security

D. T. Carter, Vice President of Safety and
Health/(509) 376-0543



Overview

This section addresses Project Baseline Summary (PBS) RL-0020, *Safeguards and Security (SAS)*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of March 2004.

Notable Accomplishments

Grouping of Fuel Canisters: FH SAS re-evaluated the need for the Spent Nuclear Fuel sub-project to conduct clean-up operations after processing each group of spent fuel canisters. This re-evaluation resulted in a method for processing several groups of canisters before conducting a clean-up operation. This process change will significantly reduce the number of clean-up operations and provide a rough cost savings of \$3M to the sub-project.

Orthotic insole evaluation: Over the last four months, FH SAS evaluated the use of a commercially available orthotic insole to reduce the level of fatigue and pain experienced by Patrol personnel associated with their daily activities. The "SUPERfeet" orthotic insoles were designed to be a cost-effective combination of cushioning and motion control that enhances the foot's ability to absorb shock and balance while reducing fatigue. The patented shape and materials making up the insole are intended to provide total foot support to control over-pronation and improve balance; reduce stress on muscles and joints; lessen fatigue and improve endurance; and improve shock absorption. Pre- and post-surveys evaluated levels of discomfort for the back, hips, knees, ankles, and feet. Survey responses from the majority of the 17-volunteer pilot group indicated noticeable reduction in pain and fatigue. Those suffering the most discomfort prior to use of the orthotic noticed the greatest improvement or reduction of pain. Based upon the test group results, FH SAS is now in the process of fitting and providing "SUPERfeet" insoles to the remaining Patrol personnel.

Vehicle Safety: FH SAS has purchased and will test two "backing presence detectors" in an effort to further enhance vehicle backing safety. The detectors are presently installed on two SAS vehicles and are quoted as being able to determine an object within eight feet of the back of the vehicle. An audible alarm annunciates to alert the driver that a hazard is present. If the detectors prove effective, the program will be expanded.

Polygraphs: The DOE polygraph team completed 56 polygraph examinations at Hanford. By hosting the polygraph team at Hanford, FH SAS saved approximately \$250K in overtime, travel expenses, and lost productivity.

Emergency Vehicle Operators Training: The first Emergency Vehicle Operations Course customer, the Kennewick Police Department, completed their training on the track without any problems.

Safety: For the month of March, FH SAS maintained a 0.0 in all areas (days away from work, restricted work activity, recordable, first aid, report-only, not-work related, recordable vehicle accident, report-only vehicle accident, and property loss cases). The year-to-date recordable injury rate for Protection Technology Hanford is currently 0.61.

FY 2004 FH Funds versus Forecast (\$000)

		FY 2004 Anticipated Funding w/Carryover	FY 2004 Fiscal Year Spend Forecast	Variance
RL-0020	Safeguards & Security	\$ 57,105	\$ 57,105	\$ 0

RL has identified FY 2004 new budget authorization of \$53,470, carryover of \$1,310K, and increased funding of \$2,325K, for a total funding of \$57,105K.

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
Safeguards & Security	23,619	23,619	24,490	0	0%	-871	-4%	50,000

NOTE: The above excludes Work for Others associated with this PBS, as Work for Others is reported in Section H. Numbers are rounded to the nearest \$K.

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

Cost Performance: The cost performance variance is within the established +/- 10 percent or \$1M threshold, therefore no variance analysis is provided.

Performance Analysis FYTD and Monthly (\$000s)

