

Environmental Management Performance Report

October 2002



**Pacific Northwest
National Laboratory**

Operated by Battelle for the
U.S. Department of Energy



Department of Energy
Richland Operations Office

PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT

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This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities.

Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, Environmental Management (EM) Laboratory Legacy Removal and Operations (LRO) Program (PBS RL-RS01), and is presented in the narrative. Monthly detailed information is available from the LRO program review handout and is available upon request or on the LRO website (<http://wmoc/home.htm>). Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

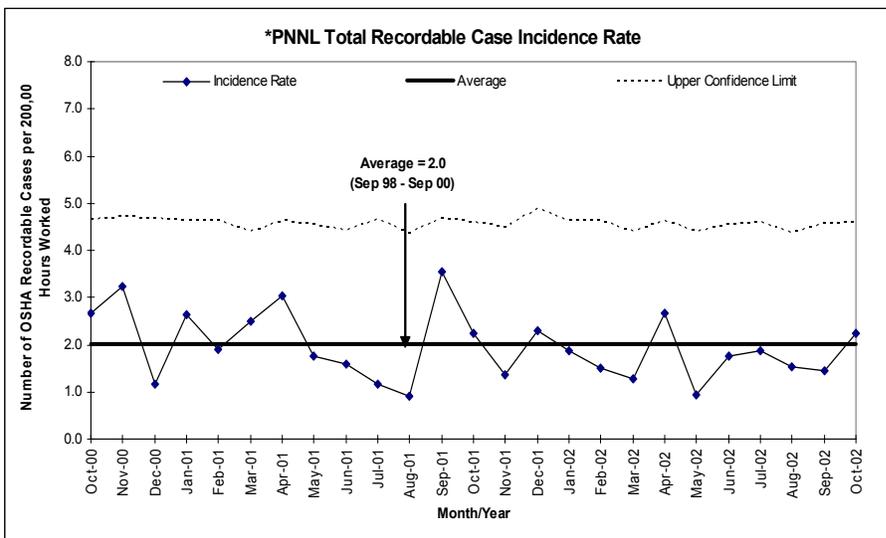
Unless otherwise noted, information in this report is current as of October 27, 2002.

This section provides an executive-level summary of performance information and is intended to bring to management’s attention that information considered to be most noteworthy. This section includes an overview of safety performance.

Safety Overview

The focus of this section is on documenting trends in lab wide work-related injury and illness rates. These are the performance indicators for the FY 2003 Battelle Performance Evaluation and Fee Agreement, which is part of the PNNL Operations Contract. This year’s Performance Indicators are based on the Voluntary Protection Program evaluation criteria. The data for Recordable and Days Away Restricted or Transferred Cases (DART), which are presented graphically in this section, have been adjusted to combine PNNL and subcontractor data. These data are regularly monitored for statistically significant changes. Efforts to maintain current levels of performance are being made through the implementation of the Integrated Safety Management System (ISMS) and Voluntary Protection Program (VPP).

Total Recordable Case Incidence Rate

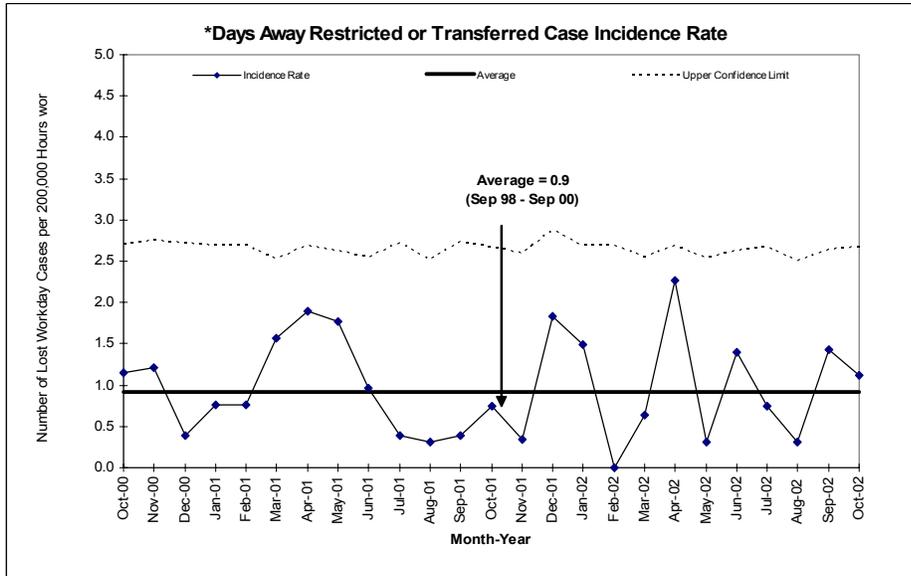


FY 2003 Rate Overview:

This indicator has been generally stable over the long term and the data point for the first month of FY 2003 falls within the anticipated control limits. The cumulative 36 Month Moving Average Rate for FY 2003 is currently below the Target Level for the fiscal year.

36 Month Moving Average To Date = 2.2
 Target \leq 2.6

Days Away Restricted or Transferred Case Incidence Rate



FY 2003 Rate Overview:

This indicator has been generally stable over the long term. The data point for the first month of FY 2003 falls within the anticipated control limits. The 36 Month Moving Average Rate for FY 2003 is at the Lab Target Level for the fiscal year.
 36 Month Moving Average To Date = 1.0
 Target ≤ 1.0

ISO 14001 Registration

PNNL recently received the ISO 14001 Certification Award. This certification, along with the previous validation of Integrated Safety Management in 1998 and the implementation of the Voluntary Protection Program Gold Star status in 2001, completes the Laboratory's "Triple Crown" vision in Environmental, Safety, and Health.

This section provides cost and schedule performance, any significant issues, and baseline change request information for the period covered, and quarterly status on baseline performance outcomes, objectives, and measures. In FY 2003, Battelle Memorial Institute has lead responsibility over PBS RL-RS01, PNNL EM Laboratory Legacy Removal and Operations Program (LRO) WBS 3.2.1.7.

Mission

The purpose of the EM Laboratory Legacy Removal and Operations (LRO) Program is to disposition Cold War legacy wastes and facilities remaining at PNNL and to operate and maintain the Radiochemical Processing Laboratory (RPL) in a “ready-to-serve” configuration as a Critical Hanford Facility to support accelerated cleanup.

The LRO Program scope includes the following:

- Conduct essential safety activities within RPL (a Category II Nuclear Facility) to ensure that no inadvertent release of radioactive or hazardous materials occurs. Maintain the facility to maximize its availability for the critical mission role of site analytical support.
- Identify, characterize, and remedy all legacy waste and contamination resulting from projects conducted within DOE facilities and ground contamination sites currently assigned to PNNL.
- Complete legacy facility consolidation and pre-deactivation activities for DOE facilities assigned to PNNL in support of the 300 Area Accelerated Cleanup Project.

Activity Summary

The following summarizes the activities associated with PNNL LRO services and operations conducted during October 2002.

- During October, a radiological air emission notice of Construction (NOC) was submitted to the Washington Department of Health (WDOH) and the Environmental Protection Agency (EPA) for review and approval. The NOC consolidates seven (7) previously permitted projects in the RPL into a single facility wide permit. The transition to the RPL 2002 Safety Analysis Report/Technical Safety Requirement (SAR/TSR) Annual Update occurred successfully on October 31, 2002.
- Treatment of the reactive sodium and lithium waste in RPL was completed in October. All resultant byproducts from the treatment will be used to neutralize other wastes, resulting in only a small amount of low level waste (LLW) being generated from this project. The mineral oil, which was used to store the metals, is currently being counted to determine its

radioactive constituents, if any. All other LLW (e.g., tubes, trays, fume hood equipment) has been packaged for disposal. The biannual inspection of the lysimeter sites took place in October.

- Activities pertaining to the surveillance and maintenance of all shutdown facilities were completed as planned. The final cleanup of the 331-B demolition site continues. The 213-J facility inspection was completed in October. No issues were noted.

Performance Data and Analysis

As of October 27th, 2002, the cumulative costs are \$.6M with a positive cost variance of \$.3M (35%) and a cumulative schedule variance of negative $-.7M$ (-42%). The cumulative cost variance is largely due to activities within the Radiochemical Processing Laboratory (RPL) and Legacy Removal operations. Specifically, slower than planned ramp up efforts to develop an effective and efficient plan for the maintenance activities in the Hot Cells and Glove Boxes; corrective/routine maintenance needs for October being less than average; a credit as a result of an over accrual associated with the FY02 Switchgear project; and efficiencies in the accelerated cleanup of the 200 Area Towers in FY02 that was to resume in October 2002 and finish by February 2003.

The cumulative schedule variance results from expected funding targets being lower than the current authorized program baseline. In addition, restraining FY03 continuing resolution guidance prohibits any “new” work from being started. Once the continuing resolution is lifted and a formal change request is implemented to align the baseline with authorized funding, the schedule variance will become more relevant. It is anticipated that scope will be completed as scheduled.

Cost Performance (\$M):			
	BCWP	ACWP	Variance
PNNL Waste Management	\$.9	\$.6	\$.3
Schedule Performance (\$M):			
	BCWP	BCWS	Variance
PNNL Waste Management	\$.9	\$ 1.6	(\$.7)

FY 2003 Cost/Schedule Performance - All Fund Types **Cumulative to Date Status - (\$000)**

WBS	PBS	BCWS	BCWP	ACWP	CV	%	SV	%
3.2.1.7	RL-RS01	<u>\$1,621</u>	<u>\$935</u>	<u>\$612*</u>	<u>\$324</u>	<u>35</u>	<u>(\$685)</u>	<u>-42</u>
Total		<u>\$1,621</u>	<u>\$935</u>	<u>\$612*</u>	<u>\$324</u>	<u>35</u>	<u>(\$685)</u>	<u>-42</u>

*PNNL has \$2.008M carryover, is expecting \$15.032M new B/A in FY 2003, for a total of \$17.040M. Current new B/A obligated is \$1.580M.

PNNL Performance Data and Analysis

