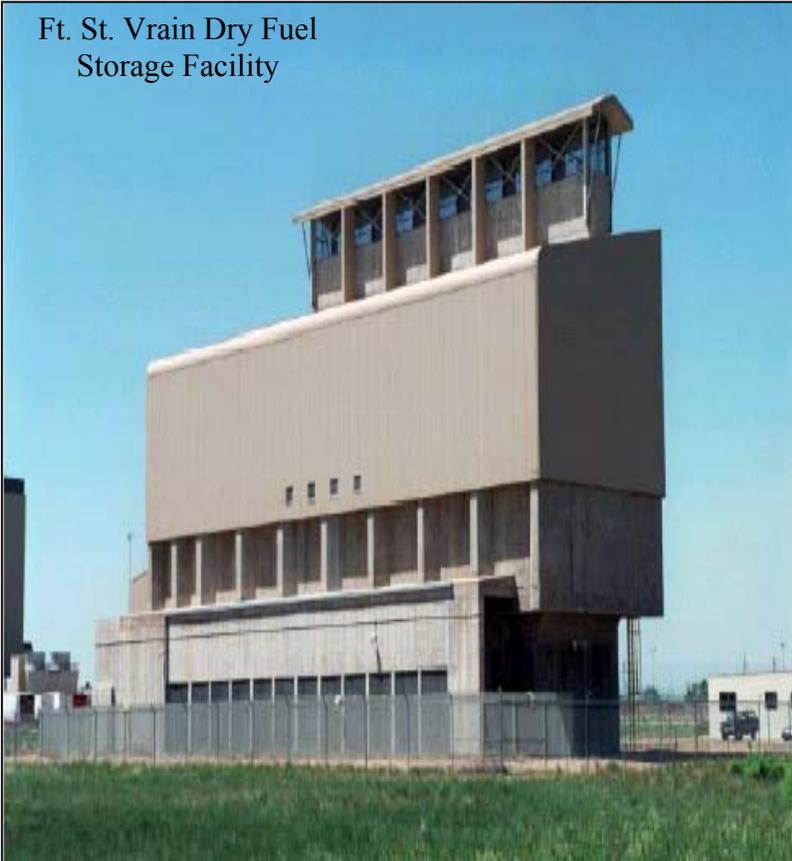


# **Waste Management Project**

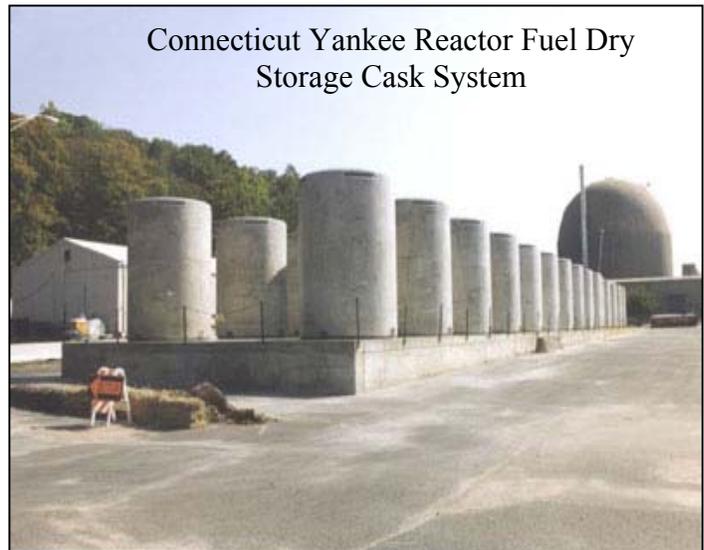
## **D. E. McKenney, Acting Project Director/ (509) 373-0402**

Ft. St. Vrain Dry Fuel  
Storage Facility



Commercial technologies  
and systems for potential  
use in dry Cesium and  
Strontium capsule storage

Connecticut Yankee Reactor Fuel Dry  
Storage Cask System



## INTRODUCTION

The Waste Management Project consists of Project Baseline Summary (PBS) RL-CP02, *200 Area Materials and Waste Management*, except for the Environmental Restoration Disposal Facility (ERDF), which is work scope managed by another Site contractor.

NOTE: Unless otherwise noted, all information contained herein is as of the end of April 2003.

## NOTABLE ACCOMPLISHMENTS

**Transuranic (TRU) Waste Retrieval:** A contract was awarded to Nuclear Filter Technology for the design and fabrication of a drum venting system (DVS). Delivery of the system is expected in early August. A revised plan of action was transmitted to RL. The revised plan clarifies the approach for DVS operations startup, and supports project acceleration.

**Mixed Low Level Waste (MLLW) Treatment:** Completed seven shipments totaling 87 cubic meters (m<sup>3</sup>) of MLLW debris and radioactive lead solids to ATG, Inc (ATG). Received eight MLLW shipments totaling 73 m<sup>3</sup> (139 m<sup>3</sup> pre-treatment volume) of macroencapsulated debris and radioactive lead solids from ATG.

**Liquid Waste Processing:** The 200 Area Effluent Treatment Facility treated 3.3 million gallons of groundwater in April. The 300 Area Treated Effluent Disposal Facility treated and disposed of 3.3 million gallons of industrial wastewater, supporting cleanout of several 300 Area facilities. The 242-A Evaporator will transfer to CH2M HILL Hanford Group (CH2M HILL) on May 26, 2003. An Extent of Conditions review was completed by CH2M HILL on May 16, 2003, and no major issues were identified.

## FY 2003 SCHEDULE/COST PERFORMANCE (\$000)

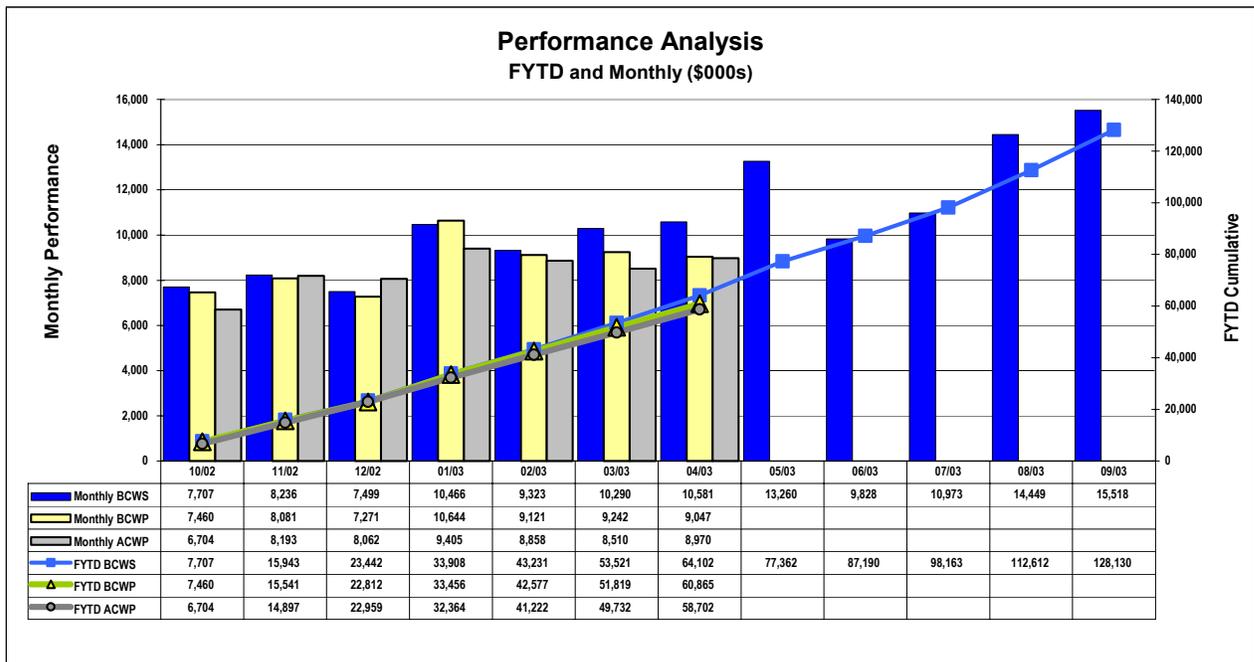
	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-CP02 200 Area Materials & Waste Mgm't	64,102	60,865	58,701	-3,237	-5%	2,164	4%	128,130

**Schedule Performance:** The unfavorable schedule variance is primarily the result of the T Plant roof repair and selected upgrades being put on hold to accommodate the FY 2003 congressional funding reductions. The scope will be deferred to FY 2004 and FY 2005 upon approval of the funds reduction Baseline Change Request. The TRU retrieval drum vent system procurement, development of readiness documentation affidavits, and procedure development are slightly behind schedule. The drum vent system contract has been awarded, contract staff have been hired to recover the schedule for readiness documentation, and procedures are awaiting the Master Documented Safety Analysis/Safety Evaluation Report approval. The 183-H disposal to ERDF is behind schedule due to the Engineering Evaluation/Cost Analysis decision; however, it is expected to be approved in June.

## FY 2003 SCHEDULE/COST PERFORMANCE, CONTINUED

**Cost Performance:** The favorable cost variance is primarily the result of labor ramp-ups that have not occurred as planned (for Waste Isolation Pilot Plant (WIPP) Certification and Shipments, TRU Retrieval, MLLW treatment, Program Management and Solid Waste Storage and Disposal). A portion of the FY 2002 fee was forfeited, causing an under run to plan. The labor costs for the Code of Federal Regulations, Title 10 Part 830 (1) implementation effort have been lower than planned. Cost efficiencies have been achieved in 200 Area Liquid Effluents and Program Management. The favorable variance will be utilized for the funding reductions and to offset overruns for the sludge receipt and other FH Programs.

The favorable variance is offset by unfavorable variances in the Solid Waste Pool where waste volumes have been lower than planned for on-site and off-site, resulting in revenues being less than planned. Volumes are expected to pick up in the last four months of the year, and changes to the rates have been proposed to RL to offset the variance. Sludge receipt costs have been higher than planned because of the cost to recover from the crane incident in January and readiness assessment preparation.



## MILESTONE ACHIEVEMENT

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status / Comment
M-91-20	T Plant ready to rec. canister of K Basin floor pit sludge	Tri-Party Agreement (TPA) Enforceable	12-31-02		05-20-03	Readiness to Proceed memo drafted and transmitted to RL
M-91-22	T Plant ready to rec. Canister & fuel wash sludge from K Basin	TPA Enforceable	02-29-04		02-29-04	On schedule
M-26-07A	Submit Evaluation of Status of Development of Tritium Treatment Technology	TPA Enforceable	03-31-04		03-31-04	On schedule
M-91-07	Complete W-113 for Post 1970 CH TRU / TRUM Retrieval	TPA Enforceable	09-30-04		TBD	TPA renegotiation ongoing.
M-91-12A	Treat 240 Cubic Meters by 12/31/2002	TPA Enforceable	12-31-04		TBD	TPA renegotiation ongoing.

## FY 2003 FH FUNDS VS. FORECAST (\$000)

	Expected Funds	Spend Forecast	Variance
<b>RL-CP02</b> Waste Management			
<b>Project Completion - Operating</b>	\$ 119,095	\$ 116,995	\$ 2,100

## ISSUES

**Receipt of Administrative Order on Washington Hazardous Waste Management Act and Dangerous Waste Regulation:** Significantly accelerated retrieval, designation, treatment and certification of MLLW and TRU waste is required. A stay request for section IIC(ii) was granted on May 13, 2003, which allowed resumption of work at the Plutonium Finishing Plant (PFP), analytical labs, the Fast Flux Test Facility and 233-S until June 13, 2003. Remaining Terms of Order are difficult, if not impossible, to meet based on current and planned waste retrieval, designation, treatment and certification capabilities for MLLW and TRU waste. Significant impacts include additional funding above the current baseline to execute new work scope, and risk of being subject to enforcement by Ecology if the terms are not met. DOE's strategy has not been communicated; however, it is assumed that DOE will appeal the Order and submit a stay request prior to May 30, 2003.

## **ISSUES, CONTINUED**

**T Plant Readiness to Receive K Basin Sludge:** Achieve readiness for K Basin Sludge receipt. Major stack designation is the critical path: RL has agreed to accept the Declaration of Readiness without Washington State Department of Health approval for major stack status at T Plant. The Readiness Assessment was completed April 18, 2003, and the report was received April 23, 2003. All pre-start actions (except major stack designation) are complete and Readiness To Proceed documents have been submitted for transmittal to RL. The Readiness to Proceed documents incorporate major stack status as a start-up plan prerequisite to accepting sludge.

**TRU Program Acceleration:** Increase production rates for TRU waste certification and shipment to WIPP. Headspace Gas Sampling throughput doubled at T Plant. The first 36-drum sampling-week (twice the previous sampling rate) was completed the week of April 28, 2003. Bargaining unit resources were added at Waste Receiving and Packaging to allow parallel TRU characterization efforts (15 of 34 positions added to date, that need to be made by mid-summer). Augment Headspace Gas analytical capability through use of the Idaho National Environmental and Engineering Laboratory procedure changes and implementation expected to be in place by the end of June 2003. Plans are to certify the Sand Slag and Crucible waste stream and start shipments to WIPP in May 2003. The Waste Stream Profile Form was submitted to the Carlsbad Area Field Office on May 9, 2003. The first Accelerated Processing Line sub-units, one Non-destructive Examination and one Non-destructive Assay, are scheduled to arrive at Hanford from the Nevada Test Site the last week of May. Their operation cannot commence until National Environmental Policy Act approval is obtained from DOE. Implement solids sampling at PFP: procedures and training need to be put in place in time for the June 16, 2003, WIPP recertification audit. This effort is necessary to complete the characterization of existing (Hanford ash) and future S3000 Pipe Over-pack Containers generated by PFP.

**Buried TRU Drum Retrieval:** Several issues have increased the risk of the scheduled September 2003 initiation of buried TRU drum retrieval:

**Staffing:** The staffing ramp-up for this project is behind schedule. A staffing plan has been approved by FH senior management. Health Physics Technicians being released by CH2M HILL will be assigned to this Project.

**RL Approved Documented Safety Analysis:** FH is awaiting this Government Furnished Service/Item to be approved by RL. Currently this activity is one month behind schedule, which is a critical path activity for readiness assessment approval and startup.

**Regulator Interface:** Due to TPA M-91 negotiations and the current Administrative Order dealing with TRU Retrieval, regulator interfaces for interim storage plans have been delayed.