

# memorandum

Ohio Field Office  
West Valley Demonstration Project

DATE: July 22, 2002

SUBJECT: West Valley Demonstration Project (WVDP) May 2002 Progress Report

50-20/  
Room-32

TO: Mark E. Rawlings  
DOE-HQ, EM-31, 2169/CLOV

Reference: Letter WD:2002:0365 (83700), J. L. Little to A. C. Williams, "WVDP Progress Report – May – 2002," dated July 15, 2002

Attached is the WVDP Progress Report for May 2002. Any questions regarding the information contained therein can be directed to Lisa M. Maul at (716) 942-2163.



Alice C. Williams, Director  
West Valley Demonstration Project

Attachment: Referenced Letter

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# West Valley Demonstration Project Progress Report

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**May 2002**

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**West Valley Nuclear Services Company**

# West Valley Demonstration Project

## Progress Report

### May 2002

#### Table of Contents

	Page
Contract Information and Objective .....	2
Narrative Highlights and Assessments	
Overall Project Assessment .....	3
PBS OH-WV-01(LT) HLW Vitrification & High Activity Waste Processing .....	5
Vitrification Deactivation Project .....	6
High Level Waste Tank Closure Project .....	6
PBS OH-WV-02(LT) Site Transition, Decommissioning, & Project Completion .....	8
Decontamination of Project Facilities .....	9
Waste Management .....	10
Characterization Project .....	11
Safe Site Operations .....	12
PBS OH-WV-03(LT) Spent Nuclear Fuel .....	14
Spent Nuclear Fuel Shipping Project .....	14
Fuel Receiving and Storage Area Decontamination Project .....	15
Safeguards and Security .....	17
Overhead / Administrative .....	18
Total Project Earned Value Report .....	20
Budget Plan .....	21
WVDP Financial Report .....	23
Milestone Report by PBS .....	25

# PROGRESS REPORT

Report No. 235

Reporting Period: May 2002

**CONTRACT TITLE AND NUMBER:** West Valley Demonstration Project  
Operating Contract  
DE-AC24-81NE44139

**CONTRACTOR NAME:** West Valley Nuclear Services Company  
10282 Rock Springs Road  
West Valley, New York 14171-9799

**CONTRACT PERIOD:** October 1, 1994 - September 30, 2002

**CONTRACT OBJECTIVE:** The 1980 West Valley Demonstration Project (WVDP) Act (Public Law 96-368) states that the Secretary of the Department of Energy (DOE) shall carry out a high level radioactive waste management demonstration project at the Western New York Nuclear Service Center (WNYNSC) in West Valley, New York, for the purpose of demonstrating solidification techniques which can be used for preparing high level radioactive waste (HLW) for disposal. The Act states that:

1. The Secretary shall solidify, in a form suitable for transportation and disposal, the HLW at the Center by vitrification or by such other technology which the Secretary determines to be most effective for solidification.
2. The Secretary shall develop containers suitable for the permanent disposal of the HLW solidified at the Center.
3. The Secretary shall, as soon as feasible, transport, in accordance with applicable law, the waste solidified at the Center to an appropriate Federal repository for permanent disposal.
4. The Secretary shall, in accordance with applicable licensing requirements, dispose of low level radioactive waste (LLW), and transuranic waste (TRU) produced by solidification of HLW under the Project.
5. The Secretary shall decontaminate and decommission (D&D) - (A) the tanks and other facilities of the Center in which the HLW solidified under the project was stored, (B) the facilities used in the solidification of the waste, and (C) any material and hardware used in connection with the project, in accordance with such requirements as the Commission (NRC) may prescribe.

West Valley Nuclear Services Company (WVNSCO), as DOE's management and operating contractor under a performance-based contract, will perform day-to-day activities at the existing WNYNSC site, maintain the existing facilities to DOE standards, and will plan, design, construct, execute decontamination and decommissioning (D&D) projects, and operate the solidification system in accordance with DOE's directives.

Phase I of the Project's vitrification campaign commenced in 1996 and completed in 1998, ahead of schedule and under budget. The majority of the liquid HLW was processed and vitrified in canisters that are currently being maintained in on-site storage. The remaining sludge was treated through the vitrification facility and completed in FY 2001. In FY 2002, vitrification operations continues to support additional tank washing activities to remove alpha-transuranic fixed contamination, while preparations are made for vitrification facility deactivation and melter shutdown.

The actions to fulfill the DOE's closure / completion responsibility per the WVDP Act will be determined by finalization of two Environmental Impact Statements (EIS) - the first being Waste Management, and the second one for Decommissioning and / or Long-Term Stewardship.

## **NARRATIVE HIGHLIGHTS AND ASSESSMENT**

### **Overall Assessment Accomplishments/Status**

The Vitrification Facility melter was returned to service on May 2 after successful change over from the west discharge section to the east discharge section due to deterioration of the west pour spout. The melter is currently idle with Canister WV-404, the 269th canister produced overall and the seventh in fiscal year 2002, under the melter feed pour spout.

WVNSCO completed eight milestones in May, all of them ahead of their due dates. The May milestones were: installation of flushing equipment (and a minimum of two flushes in the Vitrification Cell); refurbishment of the General Purpose Cell (GPC) shield window, and installation/load testing of the manipulator rail system; GPC readiness assessment; removal of equipment in the Cask Unloading Pool (CUP); development of a Transuranic (TRU) waste program; development of a management plan for facilities characterization; validation of the radioisotope inventory estimate for the Miniature Cell; and approval of a consolidated Documented Safety Analysis.

The flushing of the Vitrification Facility In-Cell Process Pit to remove additional radiological inventory that may be present generates flush liquids that are being processed through the Vitrification Facility. In order to handle the large volume of flush liquid and material accumulating in the process pit north sump, new jumpers were designed, fabricated and installed. The flushing of the process pit which includes two passes of the accessible areas of the cell pit floor, the tops and sides the Concentrator Feed Makeup Tank (CFMT), Melter Feed Hold Tank (MFHT), and Submerged Bed Scrubber (SBS) was completed.

The design/ build subcontract for the Remote-Handled Waste Facility (RHWF) is approximately 41% complete at the end of May. Routine environmental, safety and quality assurance surveillance reviews conducted during the month did not identify any significant findings. The erection of the crane rail sole plates was completed over the Crane Maintenance Area, the Work Cell, the Buffer Cell and the Receiving Area. The subcontractor safe work hours have increased to over 35,000 hours since the last injury.

A Gap analysis document has been prepared that defines a mechanism for development of a viable pathway for Transuranic (TRU) waste disposal at the Waste Isolation Pilot Plant (WIPP) facility.

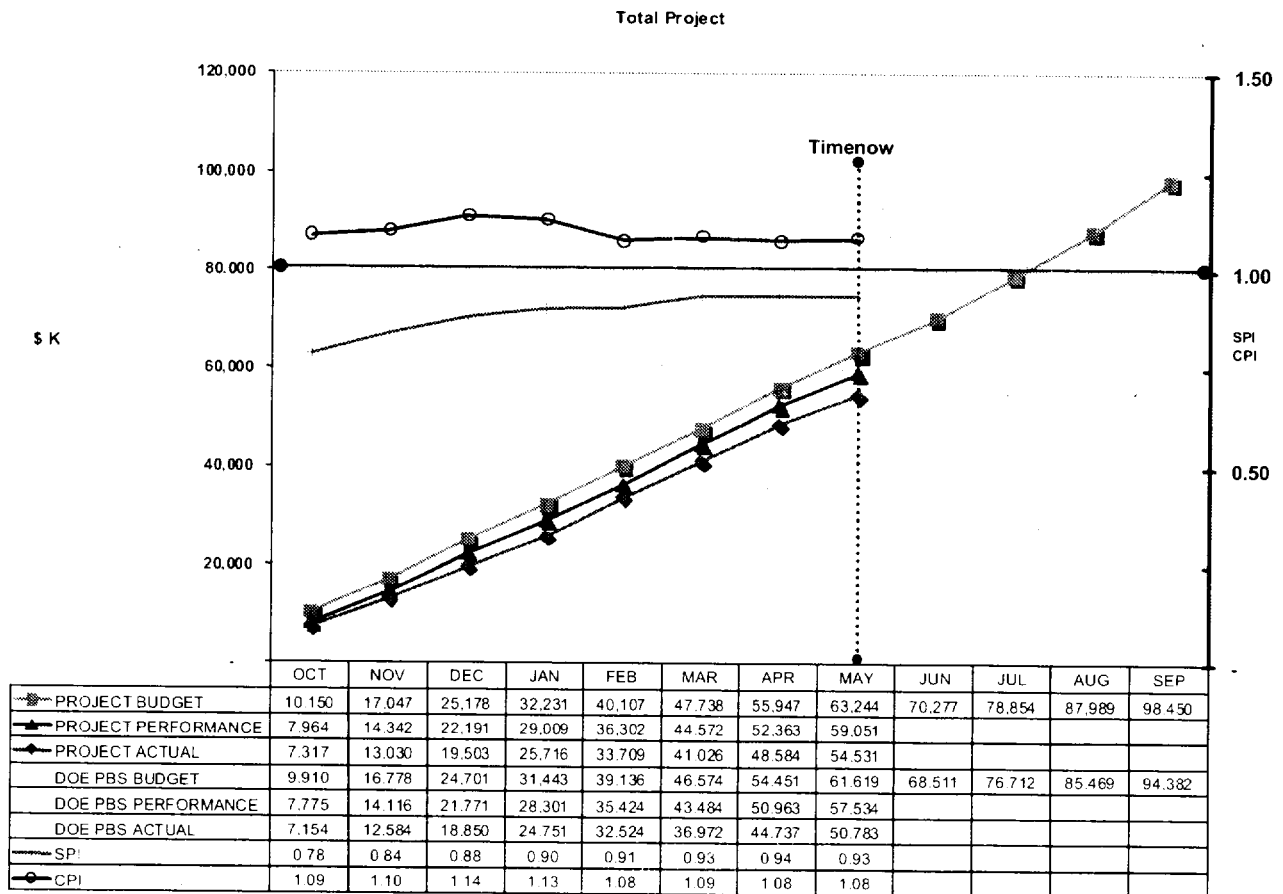
The Clearwell Bucket (CWB), CWB Table, Lift Rack Chassis, and pool gate were removed from the CUP and packaged for disposal. Work to remove the remainder of the cooling water piping in the FRS resumed in support of upcoming pool wall cleaning efforts. Fuel pool water visibility improved in May with the addition of sodium hydroxide in an attempt to precipitate fine particles of metals out of solution.

DOE-OH was on-site the week of May 13 for the DOE Readiness Assessment (RA) for the GPC. The close out meeting was held on May 17, with one pre-start and two post-start items identified. Action plans for the close out of these items are in development.

Packaging operations continued in the Process Mechanical Cell (PMC) with the filling of 3 drums. A lessons learned meeting was held to discuss the removal of the RAM Equipment Table in April. BNFL Instruments Inc. assisted in the deployment of the gamma spectroscopy camera in the PMC. Initial calibrations of the camera were performed in the Vitrification Test Facility (VTF). The camera was then deployed in the PMC for background radiation calibration checks. Following the completion of the background checks, in-cell radiation measurements were taken.

There was one reportable clothing contamination, but no reportable skin or internal contaminations for WVDP radiological workers in May 2002.

There were two Occupational Safety and Health Act (OSHA) recordable incidents in May increasing the WVDP's calendar year-to-date Total Recordable Case Rate (TRC) to 2.06.



### **Assessment/Actions**

The negative schedule variance or \$4.2M for the Project is primarily due to the delay in shipping the spent nuclear fuel to the Idaho National Engineering and Environmental Laboratory (INEEL), as well as delays in procurements and subcontractor services. Activities contributing to the schedule variance are not adversely affecting the schedule completion of FY02 goals and objectives.

The cost variance for the Project increased in May from positive \$3.8M in April to a positive \$4.5M. This is a result of savings realized on an intermodal waste shipment, lower subcontractor services expenses (i.e., expenses for snow removal, control of HVAC expenses, eliminating duplicate fire protection inspection/testing, routine site operations, and safe storage of waste).

Project performance to date through May is 64% of work planned, 60% of work performed and 55% of work costed.

## PBS OH-WV-01(LT): HLW Vitrification & High Activity Waste Processing

**PBS OH-WV-01(LT) Scope** -The scope of PBS OH-WV-01(LT) addresses activities required to comply with the mandates of the WVDP Act which states that, among other responsibilities, the Secretary of the Department of Energy shall solidify, in a form suitable for transportation and disposal, the HLW at the Center by vitrification or such other technology which the Secretary determines to be most effective for solidification, and develop containers suitable for the permanent disposal of the HLW solidified at the Center.

The decision to utilize vitrification as the solidification process for the HLW at the WVDP was made in 1982. In 1988, the vitrification formula which complied with the Waste Acceptance Criteria for long term disposal in the Federal Repository for the HLW at the WVDP was approved. Facilities to pretreat the HLW, mobilize and vitrify HLW were designed, constructed and tested and radioactive HLW processing began in July 1996. PBS-OH-WV-01(LT) includes activities for liquid HLW processing and tank heel residual processing, tank cleaning to remove fixed contamination, and vitrification operations support. Vitrification operations are expected to continue through FY 2002, supporting flushing and deactivation of the system.

### MILESTONES

Description	Scheduled	Completed	Status
<b>HLW-1: REMOVAL OF MOBILIZATION PUMP FROM M-1 RISER AND INSTALLATION OF THIRD MAST TOOL DELIVERY SYSTEM</b>			
A: Remove Mobilization Pump from M-1 Riser of HLW Tank 8D-2, and package/store it with the other pumps removed from the waste tank farm.	11/30/01	11/01/01	
B: Complete testing, checkout, operator training and installation of Mast Tool Delivery System (MTDS) in M-1 riser of Tank 8D-2.	01/19/02	01/17/02	
C: Initiate characterization activities from the Tank 8D-2 M-1 riser to include the beta-gamma detector deployment. Complete at least 3 beta-gamma scans of unwashed and partially washed areas from M-1 riser.	01/31/02	01/30/02	
<b>HLW-2: OBTAIN PRE AND POST WASH BURNISHING SAMPLES</b>			
A: Complete Pre and Post wash beta-gamma detector deployment	11/16/01	11/15/01	
B: Provide documented results of the Tank 8D-2 M-4 and M-7 pre and post wash burnishing samples and beta-gamma scans.	01/31/02	01/31/02	
<b>HLW-3: HLW FLUSHING ACTIVITIES</b>			
Complete an acid flush of the Vitrification Waste Header, and an acid soak of Tank 8D-4 per the HLW Processing Systems Flushing Operations Run Plan.	01/31/02	01/31/02	
<b>HLW-4: COMPLETE LIQUID WASTE TREATMENT SYSTEM (LWTS) EVAPORATOR FLUSH.</b>	05/15/02	04/30/02	
<b>HLW-5: COMPLETE INSTALLATION OF FLUSHING EQUIPMENT AND COMPLETE MINIMUM OF TWO FLUSHES OF VITRIFICATION FACILITY IN-CELL PROCESS PIT.</b>	05/31/02	05/06/02	

## **VITRIFICATION DEACTIVATION PROJECT**

### **HLW-5**

The flushing of the Vitrification Facility In-Cell Process Pit is to remove additional radiological inventory that may be present. The flush liquids that are generated during this operation are being processed through the Vitrification Facility. In order to handle the large volume of flush liquid and material accumulating in the process pit north sump, new jumpers were designed and fabricated. The jumper assembly was subsequently installed and satisfactorily checked out in the Vitrification Cell. Prior to initiating the process pit flushing, an integrated checkout of all the equipment involved was performed.

The flushing of the process pit includes two passes of the accessible areas of the cell pit floor, the tops and sides the CFMT, Melter Feed Hold Tank (MFHT), and Submerged Bed Scrubber (SBS). Visual monitoring of the evolution is performed using remote Closed-Circuit Television System (CCTV). Flushing material accumulated in the cell pit is transferred to the Concentrator Feed Makeup Tank (CFMT) and sampled. Laboratory analysis and evaluation of the flushing video will be included as part of the Characterization Project.

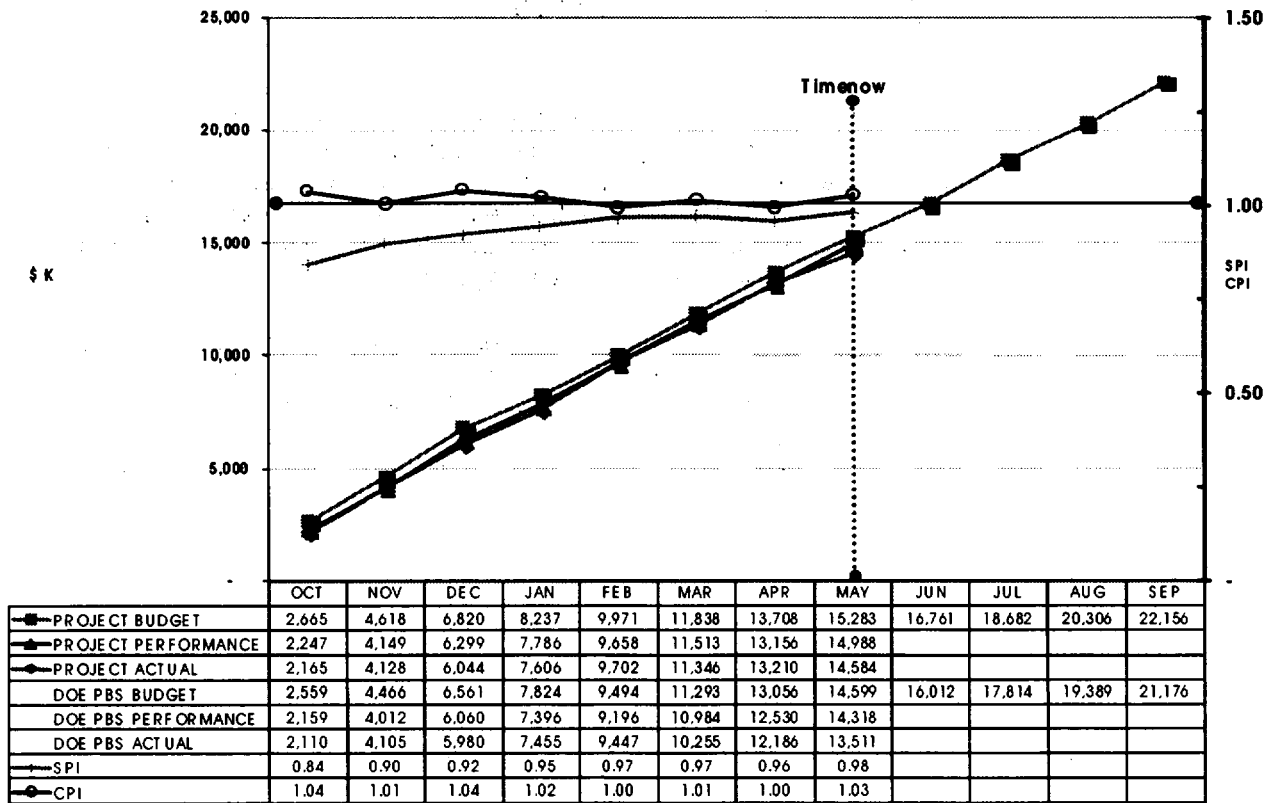
## **HIGH LEVEL WASTE TANK CLOSURE PROJECT**

### **HLW Tank Lay-Up - Vault Drying System**

An alternate method to remove the last 100,000 gallons of liquid from Tanks 8D-1 and 8D-2 has been developed and the fabrication contract awarded. This alternative would utilize the inoperable 50-G-001 floating suction pump arm and pump column to convey tank liquid to the Supernatant Treatment System (STS) using a new submersible pump connected to the end of the suction arm.



PBS 1 - (OH-WV-01/LT) HLW VITRIFICATION & HIGH ACTIVITY WASTE PROCESSING



**PBS OH-WV-01(LT) Assessment/Actions**

PBS-OH-WV-01LT has negligible cost and schedule variances through May.

At the end of May, performance to date is 69% of work planned, 68% of work performed and 66% of work costed.

## **PBS OH-WV-02(LT): Site Transition, Decommissioning & Project Completion**

**PBS OH-WV-02(LT) Scope** -The scope of PBS OH-WV-02(LT) addresses activities required to comply with the mandates of the WVDP Act which states that, among other responsibilities, the Secretary of the Department of Energy shall, as soon as feasible, transport, in accordance with applicable law, the waste solidified at the Center to an appropriate Federal repository for permanent disposal. Additionally, the Secretary shall, in accordance with applicable licensing requirements, dispose of low level radioactive waste (LLW), and transuranic waste (TRU) produced by solidification of HLW activities. Finally, the Secretary shall decontaminate and decommission (D&D) - (A) the tanks and other facilities of the Center in which the HLW solidified under the project was stored, (B) the facilities used in the solidification of the waste, and (C) any material and hardware used in connection with the project, in accordance with such requirements as the Commission (NRC) may prescribe.

Project efforts in PBS OH-WV-02(LT) focus on activities required to transition the site from HLW vitrification operations through decontamination and final decommissioning of Project facilities. These activities include management of the migrating radioactive groundwater plume, including construction of a pilot Permeable Treatment Wall, completion of the National Environmental Policy Act (NEPA) process to determine final facility closure activities (Environmental Projects), construction of the Remote Handled Waste Facility (RHWF) to provide the Project capability to characterize, sort, segregate and repackage high activity waste for disposal (Remote Handled Waste Project), LLW storage and shipping for off-site disposal (Waste Disposal Projects), Head End Cell (HEC) equipment installation / upgrades and HEC Spent Fuel Debris Retrieval (Facility Decontamination Projects), and development of alternative on-site HLW canister storage capability.

During execution of all provisions of the WVDP Act, the Project is committed to continuing safe storage of the transuranic (TRU) waste, and HLW canisters, as well as safe storage and waste management of the mixed low-level waste (MLLW) and low-level waste (LLW).

## **DECONTAMINATION OF PROJECT FACILITIES**

### **MILESTONES**

Description	Schedule	Complete	Status
<b>FC-1: GENERAL PURPOSE CELL (GPC) AND PROCESS MECHANICAL CELL (PMC) INFRASTRUCTURE</b>			
Complete removal and packaging for disposal of the old crane/hardware, and installation of the Scrap Removal Room (SRR) replacement crane, including turnover to operations. Complete Standard Operating Procedures, operator training materials and complete	01/31/02	01/20/02	
<b>FC-3: COMPLETE PREREQUISITES AND INFRASTRUCTURE IMPROVEMENTS REQUIRED FOR INITIAL OPERATIONS ACTIVITIES IN PREPARATION FOR DECONTAMINATION OF GENERAL PURPOSE CELL.</b>			
Complete prerequisites and infrastructure improvements required for initial operations in the GPC.	04/30/02	04/29/02	
<b>FC-4: COMPLETE REFURBISHMENT OF GPC SHIELD WINDOW A, INSTALLATION AND CHECK OUT OF MANIPULATOR RAIL SYSTEM FOR WINDOW A, AND WVNSCO READINESS ASSESSMENT.</b>			
A: Complete refurbishment of Shield Window 2M-6-A in the General Purpose Cell and Install and load test the manipulator rail system over the 2M-6-A shield window.	05/31/02	05/29/02	
B: Complete WVNS Readiness Assessment (RA) and WVNS identified pre-start open items.	05/31/02	05/24/02	
<b>FC-7: REMOVAL AND PACKAGING OF RAM TABLE FROM PROCESS MECHANICAL CELL (PMC).</b>			
Complete the removal and packaging of the RAM table and 20 drums of debris from the PMC	04/30/02	04/30/02	

#### **FC-4A**

Milestone FC-4A was completed this month with the successful refurbishment of the GPC shield window. The recovery plan for the cracked cell side cover glass, reported in April, was successfully executed, culminating in filling the window with oil to a modified procedure on May 16.

#### **FC-4B**

DOE-OH was on-site the week of May 13 for the DOE Readiness Assessment (RA) for the GPC. The close out meeting was held on May 17, with one pre-start and two post-start items identified. Action plans for the close out of these items are in development.

Corrective actions for the one pre-start finding and four of the five post-start findings generated by the WVNSCO RA have been completed to date resulting in completion of this milestone.

### **Diesel & Condensate Tanks Disposition Project**

Size reduction of the condensate tanks began with D&D operators cutting holes on both tanks for Radiation Projects to conduct surveys of the tanks' internals. After these surveys were completed, D&D operators fixed internal contamination by applying a layer of Oakite. Approximately 20% of the metal has been cut and packaged.

## **WASTE MANAGEMENT**

### **WASTE DISPOSAL PROJECTS**

**Scope:** Waste Disposal Projects include, but are not limited to, the proper packaging, handling, storing, tracking and shipment of processed low-level radioactive waste, mixed waste, hazardous waste, industrial and sanitary waste. This includes compliance with applicable rules, regulations and administrative controls in the performance of the above activities. Waste disposal projects include disposition of Low Level Waste Treatment Facility (LLWTF) dewatered resin, soil sorting and/or consolidation, waste compaction of Dry Active Waste, waste minimization (transfer of 60 rolloff containers for reuse at Fernald Environmental Management Project (FEMP)).

## **MILESTONES**

Description	Schedule	Complete	Status
<b>LL-1: LOW LEVEL WASTE SHIPMENT/DISPOSAL</b>			
Ship and dispose of 100% (16,000 cubic feet) of historical annual generation of LLW.	12/31/01	12/03/01	
<b>WM-1: TRU WASTE PROGRAM</b>			
Complete the development of a WVDP TRU Waste Program.	05/31/02	05/29/02	

### **WM-1:**

This milestone was completed with the development of a Gap Analysis Document that defines a mechanism for development of a viable pathway for Transuranic (TRU) waste disposal at the Waste Isolation Pilot Plant (WIPP) facility. The TRU Program Implementation Plan provides a general overview of the gaps identified in the Gap Analysis Plan and discusses further methods and assumptions, as well as timelines and level of effort, necessary to achieve WIPP compliance.

WVNSCO began transferring sixty (60) rolloff containers (i.e., government property) to Fernald Environmental Management Project (FEMP) on April 30, 2002. A total of 42 roll-off containers have been shipped to FEMP through the end of May and shipping of the remaining 18 will continue during June.

### **REMOTE-HANDLED WASTE FACILITY (RHWF) PROJECT**

**Scope:** Implementation of site remote-handled (RH) waste activities include all activities necessary to precharacterize, analyze, sample, and inspect RH wastes. Evaluation of options for preparing RH waste for disposal, including, but not limited to, design, fabrication, testing and operation of a Remote-Handled Waste Facility (RHWF) is included. Also included in the scope is evaluation of new state-of-the-art cutting and decontamination capabilities, and evaluation of transportation options associated with off-site shipping of RH waste.

The design/ build subcontract is approximately 41% complete at the end of May. Routine environmental, safety and quality assurance surveillance reviews conducted during the month did not identify any significant findings.

Welding of liner plates and electrical work are underway. Liner installation in the Buffer Cell was not completed during May as planned. Installation of trim and grinding to finish joints took longer than expected and completion is expected in June. Similar work is underway in the Work Cell. The erection of the crane rail sole plates was completed over the Crane Maintenance Area, the Work Cell, the Buffer Cell and the Receiving Area. Metal wall studs, electrical, HVAC and plumbing rough-ins were completed in the Office Area. Conduit and cable tray installation began on the third floor of the main structure.

The subcontractor team will start engineering of logic and control drawings in June. Preparation of fabrication drawings and other vendor submittals for equipment are continuing though deliveries of equipment are not likely to begin until late August. Waste water tanks should be shipped in late June rather than in May as was reported last month. Shield windows were shipped to the Buffalo area and are being staged for installation in FY2004.

The subcontractor safe work hours have increased to over 35,000 hours since the last injury. Loss control specialists from the subcontractor's insurer walked the site with the field supervisors to determine if there is a need for safer approaches to performing the work. Only minor adjustments were suggested. Preventing strains continues to be the focus of safety briefings and work planning efforts. During May, the safety oversight program was tailored to align with the subcontractor safety procedures. Twenty-three checklists were developed for safety professionals to use in conducting oversight reviews.

## **CHARACTERIZATION PROJECT**

**Scope:** The Facility Characterization Project will update the radiological inventories for the High Level Waste Tanks, the Vitrification Facility and the Process Building for use with performance assessment analysis.

### **MILESTONES**

Description	Schedule	Complete	Status
<b>CP-1: DEVELOP PLAN FOR RADIOLOGICAL CHARACTERIZATION OF THE VITRIFICATION FACILITY, WASTE TANK FARM, AND MAIN PLANT PROCESS BUILDING.</b>			
Develop a Management Plan for the characterization of the Vitrification Facility, the Waste Tank Farm and the Main Plant Process building and submit to DOE-OH/WVDP.	05/15/02	05/14/02	
<b>CP-2: VALIDATE THE RADIOISOTOPE INVENTORY ESTIMATE FOR THE MINIATURE CELL IN THE MAIN PLANT PROCESSING BUILDING.</b>	05/31/02	05/30/02	

#### **CP-1:**

The Characterization Management Plan for the Facility Characterization Project (WVDP-403) contains the rationale for the use of historical data and/or process knowledge to determine radionuclide levels present in Project facilities. It also describes the methodology for gathering data and analyzing data; how certain facilities or cells will be evaluated to determine if additional sampling will be required; and the available options for collecting supplemental.

**CP-2:**

The assessment for the Miniature Cell followed the steps as defined in the Characterization Management Plan for the Facility Characterization Project (WVDP-403). The approach used to evaluate the Miniature Cell and generate the inventory estimate included the following steps: collection and evaluation of existing/historical information and data on the cell; preparation of dose-to-curie computer models and selection of a bounding case; and application of a bounding set of scaling factors to yield the conservatively bounded radioisotope inventory.

## **SAFE SITE OPERATIONS**

### **ENVIRONMENTAL RESTORATION PROJECTS**

**Scope:** The primary focus of Environmental Restoration Projects is the management of the National Environmental Policy Act (NEPA) process associated with completion of the WVDP and closure or long-term management of the Western New York Nuclear Service Center (WNYNSC). This effort also identifies scopes for the site disposition implementation plan and the development of end states for disposition of various facilities such as support stabilization and closure of land based units at the WVDP, including analysis and engineering to address the north plateau radioactive groundwater plume.

### **ENVIRONMENTAL IMPACT STATEMENT (EIS)**

On May 23, 2002, the U.S. Department of Energy (DOE) and the New York State Energy Research and Development Authority met with representatives from the Nuclear Regulatory Commission, Environmental Protection Agency, New York State Department of Environmental Conservation, New York State Department of Health, and the Seneca Nation of Indians to discuss clarification of the regulators communication plan, proposed Environmental Impact Statement (EIS) schedules, expectations for the EIS, and the next steps. The next near-term action for the group is to provide DOE comments on the proposed EIS schedule.

The U.S. Department of Energy (DOE) is committed to making progress on the resolution of comments received from New York State Energy Research and Development Authority (NYSERDA) on the draft Notice of Intent for the Decommissioning and/or Long-term Stewardship EIS. A meeting to discuss the comments is being planned.

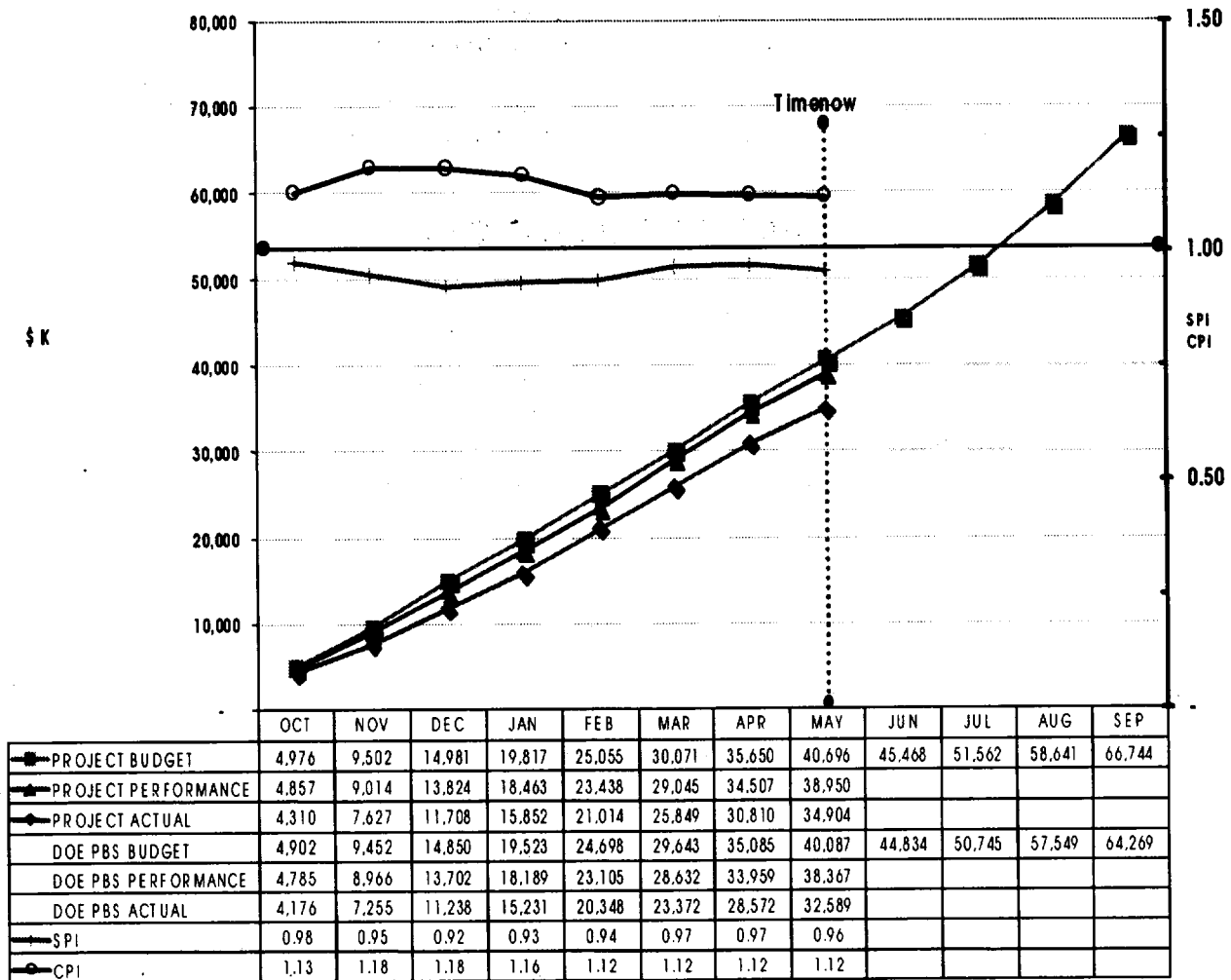
## **MILESTONES**

Description	Schedule	Complete	Status
<b>SAR-1: CONSOLIDATED DOCUMENTED SAFETY ANALYSIS.</b>			
A consolidated Documented Safety Analysis, reviewed and approved by the WVNS Radiation and Safety Committee, is transmitted via letter to DOE-OH/WVDP requesting review and approval.	05/31/02	05/29/02	

**SAR-1:**

On May 29, 2002, West Valley Nuclear Services Company submitted the Consolidate Documented Safety Analysis (DSA), WVNS-SAR-001, Revision 8, to the Ohio Field Office West Valley Demonstration Project for review and subsequently to DOE Ohio Field Office (DOE-OH) approval. This document consolidates four existing modules of the WVDP Documented Safety Analysis into one and will result in project savings. DOE-OH approval will align DSAs with 10 CFR 830, Subpart B.

**PBS 2 - (OH-WV-02LT) SITE TRANSITION, DECOMMISSIONING & PROJECT COMPLETION**



**PBS OH-WV-02LT Assessment/Actions**

PBS-OH-WV-02LT has experienced a negative schedule variance of \$1.7M through May due to delay of procurements and subcontractor services; in particular, RHWF vendor data submittals and major equipment deliveries.

The positive cost variance of \$4.0M is a result of a savings realized from an intermodal waste shipment and less than planned costs associated with labor and subcontractor support. In particular, the fire protection inspection and testing schedules were realigned/combined which resulted in elimination of duplicate and unnecessary testing; lower expenses were realized this year for subcontractor snow removal; and control of HVAC subcontractor expenses were reduced.

At the end of May, performance to date is 61% of work planned, 58% of work performed and 52% of work costed.

## **PBS OH-WV-03(LT): SPENT NUCLEAR FUEL**

**PBS OH-WV-03LT Scope** - The Department of Energy is responsible for 125 spent nuclear fuel (SNF) assemblies at the site. The scope of PBS OH-WV-03 (LT) addresses activities required to comply with the mandates of the Agreement between the New York State Energy Research and Development Authority (NYSERDA) and the Department of Energy (DOE) on Spent Nuclear Fuel located at the Western New York Nuclear Service Center, and the DOE/Navy/State of Idaho Consent Order/Settlement Agreement on Spent Fuel and Nuclear Waste.

The agreement between NYSERDA and DOE allows DOE to use the Fuel Receiving and Storage Area (FRS) to store, pending removal, the spent nuclear fuel to which DOE had taken title from the previous site operator, Nuclear Fuel Services (NFS).

The DOE/Navy/ID Consent Order: Court Order Civil No 91-0035-8-EJL conditionally reopens the Idaho National Engineering and Environmental Laboratory (INEEL) to receive West Valley SNF, until an interim storage facility or permanent repository is opened accepting spent fuel from INEEL. DOE will ship all West Valley SNF to INEEL. This agreement resulted in EM issuing the "National SNF Interim Storage Plan" which states that West Valley SNF was to be shipped to INEEL in the year 2001.

### **SPENT NUCLEAR FUEL SHIPPING PROJECT**

On October 18, 2001, the Assistant Secretary of Environmental Management determined that it would be in the best interest of the government to delay shipment of the two casks loaded with spent fuel from West Valley to Idaho so that DOE can focus its attention on their commitment to ship stored TRU waste from INEEL to Waste Isolation Pilot Plant (WIPP).

After evaluating various alternatives, WVNSCO developed a plan for on-site staging of the casks, which will remain in their current location until a decision is made regarding shipment. Chain-link fencing and additional monitoring systems were installed as a security enhancement.

WVNSCO recommended and received approval to delay cask gas sampling of both casks until June, 2002, when helium leak testing will be performed. This will save an estimated 68 man-days of labor. The impact limiter tie rods were removed from both casks in preparation for cask gas sampling and leak testing. Discussions were held with the vendor and WVNSCO personnel who previously performed leak testing. Although fabrication of the cask gas sampling skid is currently behind schedule at INEEL, it's projected delivery to West Valley by mid-May will allow a sufficient amount of time for system checkout and mock-up training.



## **FUEL RECEIVING AND STORAGE (FRS) AREA DECONTAMINATION PROJECT**

### **MILESTONES**

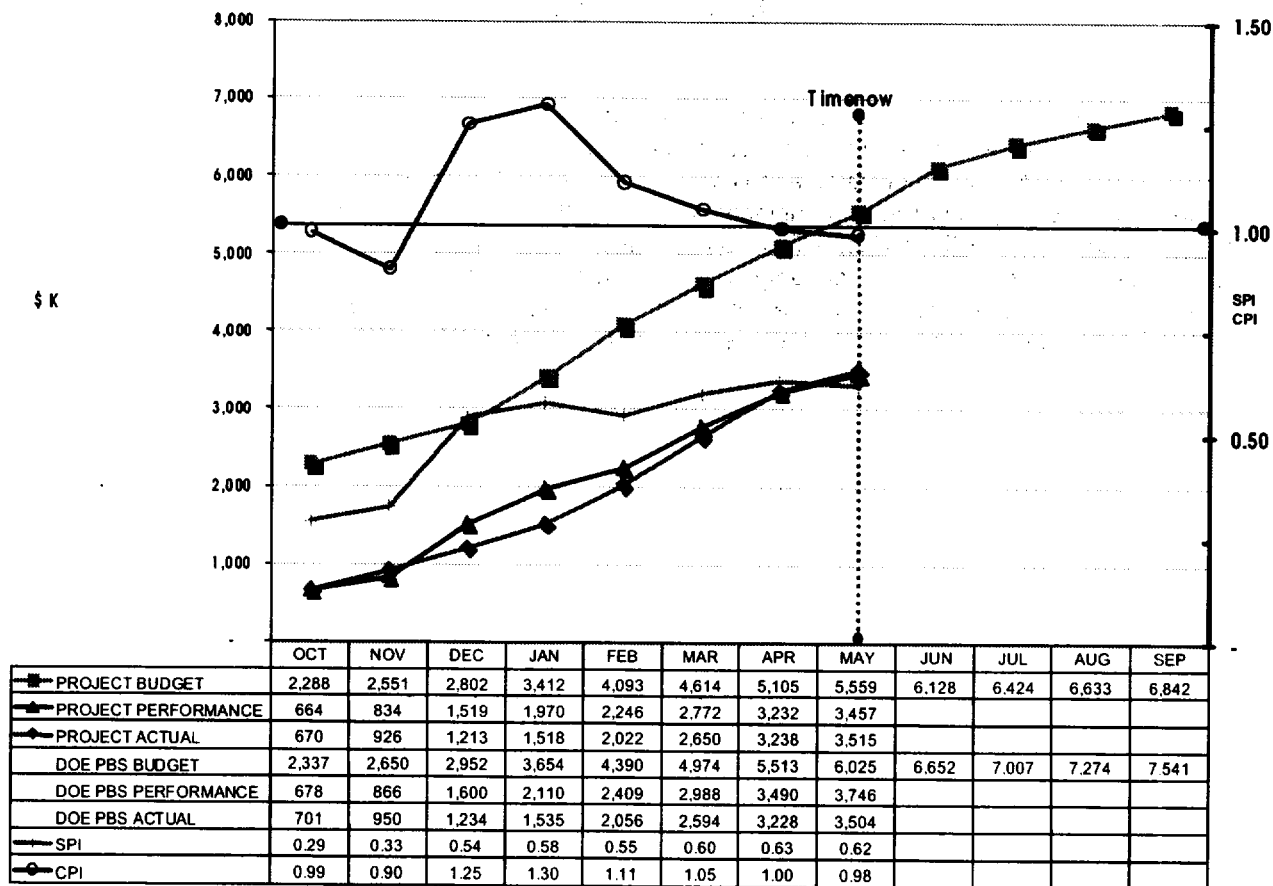
Description	Schedule	Complete	Status
<b>FC-2: REMOVE AND PACKAGE THE EMPTY SPENT FUEL STORAGE CANISTERS</b>			
FC-2: Remove the 147 empty spent fuel storage canisters from the pool and package for disposal.	12/31/01	12/21/01	
<b>FC-5: REMOVE AND PACKAGE THE FUEL STORAGE RACKS.</b>	04/15/02	04/15/02	
<b>FC-6: REMOVE EQUIPMENT IN THE CASK UNLOADING POOL (CUP) AND PACKAGE FOR DISPOSAL.</b>	05/30/02	05/29/02	

#### **FC-6:**

Milestone FC-6, "Remove Equipment in the Cask Unloading Pool (CUP) and Package for Disposal," was completed during May. This milestone included the removal of the Clearwell Bucket (CWB), CWB Table, Lift Rack Chassis, the pool gate, as well as the issuance of a report describing this work. Work to remove the remainder of the cooling water piping in the FRS resumed in support of upcoming pool wall cleaning efforts.

Fuel pool water visibility improved in May with the addition of sodium hydroxide in an attempt to precipitate fine particles of metals out of solution. This addition has raised the pool pH and improved visibility to approximately ten feet through the pool water. It was the result of several rounds of bench tests recommended by both in-house water experts and outside consultants. A noteworthy item included in this chemical addition was the reuse of the Decon Stall Spray Ring, a piece of spent fuel excess equipment that was placed into the fuel pool for use as an air sparging device in a successful attempt to mix the chemicals added throughout the pool.

PBS 3 - (OH-WV-03AT) SPENT NUCLEAR FUEL



### **PBS OH-WV-03LT Assessment/Actions**

PBS-OH-WV-03LT has a negative schedule variance, which is due to the delay in shipping the Spent Nuclear Fuel to INEEL. The scheduling of a future shipment is being evaluated.

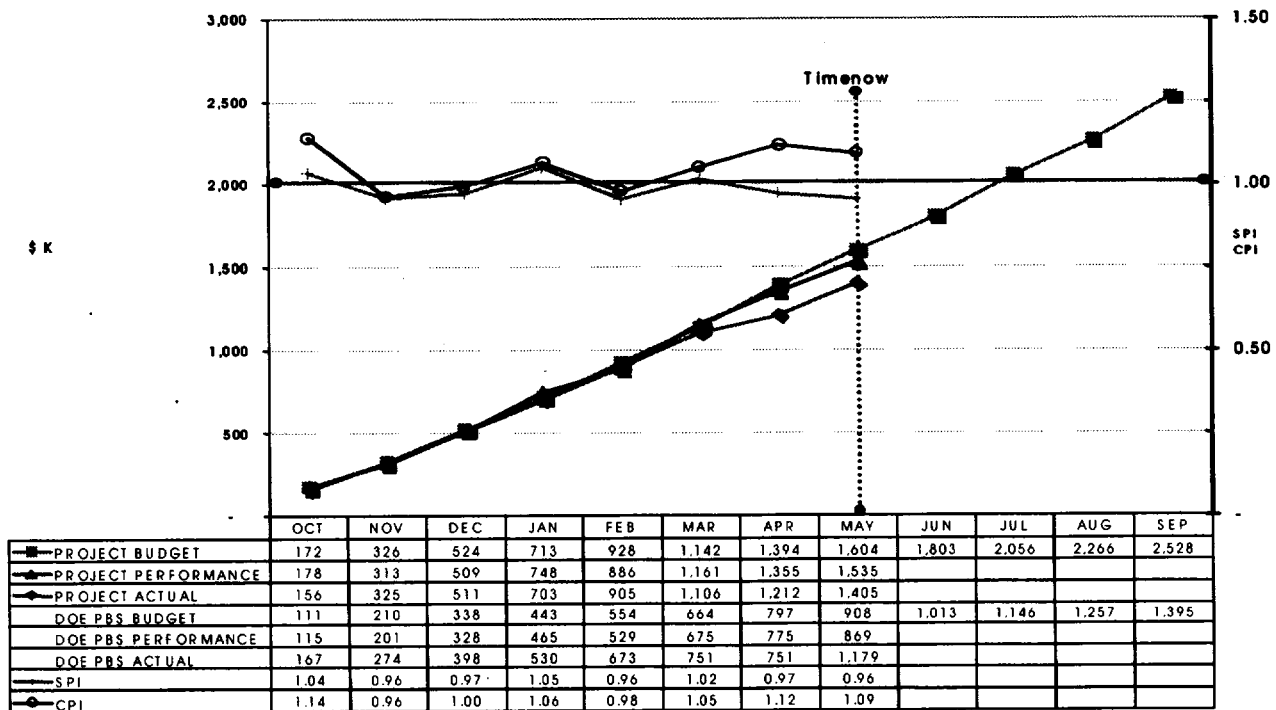
PBS-OH-WV-03LT has a negligible cost variance through May.

At the end of May, performance to date is 81% of work planned, 51% of work performed and 51% of work costed.

## PBS OH-WV-SS-D: Safeguards and Security

**PBS OH-WV-SS-D Scope** -The West Valley Demonstration Project (WVDP) Safeguards and Security mission is to provide general security, physical security, and cyber-security for all site operations covered as part of PBS OH-WV-01, Vitrification and High Activity Waste Processing, PBS OH-WV-02, Site Transition, Decommissioning and Project Completion, and PBS OH-WV-03, Spent Nuclear Fuel. General security, in accordance with applicable DOE Standards and regulations, is executed through operation of protective security forces. Physical security is provided using a comprehensive lock and key system, remote closed circuit television (CCTV), alarm monitoring, area fencing and barrier protection. Cyber-security efforts ensure that all DOE unclassified information resources are protected against possible threats.

(OH-WV-SS-D) SAFEGUARDS AND SECURITY

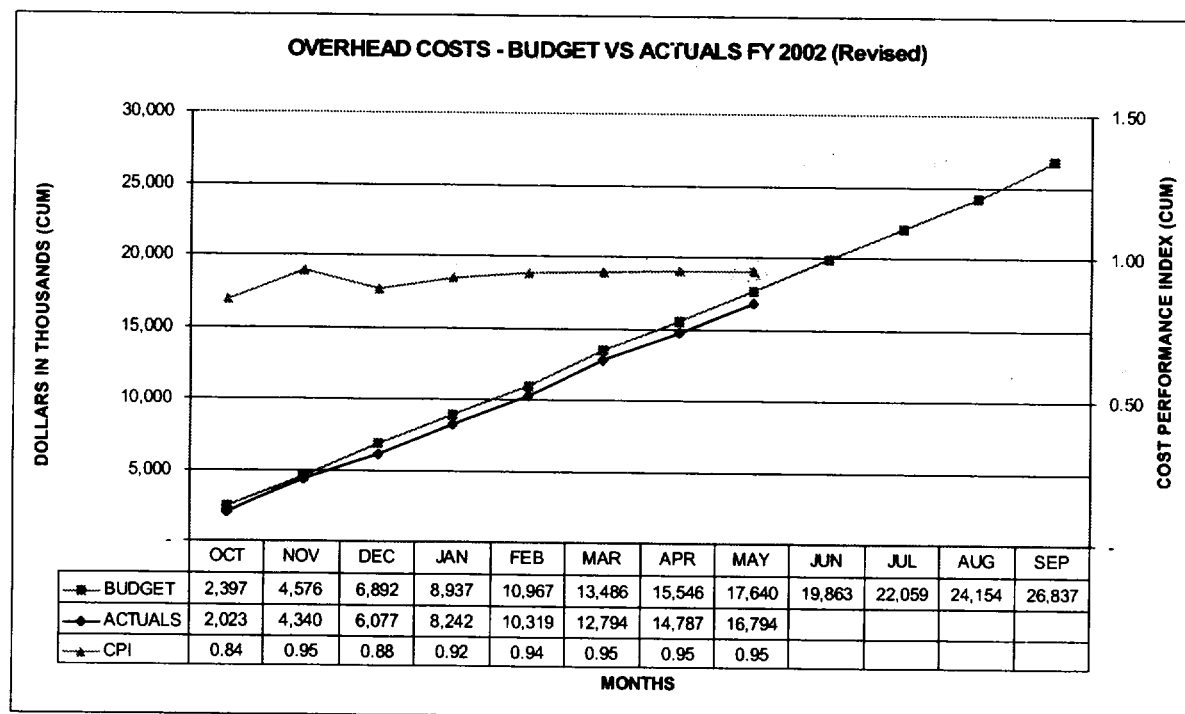


### PBS OH-WV-SS-D Assessments/Actions

Safeguards and Security has a negligible cost and schedule variance through May.

At the end of April, performance to date is 63% of work planned, 61% of work performed and 56% of work costed.

## Overhead/Administrative



Two separation programs offered simultaneously to WVNSCO employees, a Voluntary Separation Package (VSP) and Early Retirement Incentive (ERI) Program closed at the end of January. The VSP/ERI programs were well received and a significant reduction in the site headcount was realized by the end of March 2001. Additionally, an Involuntary Separation Program announced a further reduction of 66 persons, 51 which were separated the end of May, and an additional 15 who will be separated at the completion of Vitrification operations. These actions complete alignment of site labor levels with required levels to support on-going and planned work scope as the Project completes its transition from operations to decontamination and waste management.

### Assessment/Actions

**Assessment:** The underrun in the overhead accounts has increased from \$760K to \$845K during May and continues to be attributable to restricted spending as a result of internalizing the reduced appropriation for FY2002. Spending in some areas has increased but remain well within approved spending guidelines. Although the overhead budget currently has a positive variance, WVNSCO continues to experience an overrun in cost of labor of the indirect employees. The negative variance in labor has begun to decrease as a result of the recent successful employee separation programs.

**Actions:** Spending and placement of orders has been carefully monitored. This will continue throughout the year to manage spending within the overall budget.

## ADMINISTRATIVE

Project personnel as of May 31, 2002:

	<b>Mgt</b>	<b>Prof</b>	<b>NE</b>	<b>Hourly</b>	<b>Total</b>
<b>WVNSCO On Board<sup>1</sup></b>	<b>74</b>	<b>222</b>	<b>133</b>	<b>133</b>	<b>562<sup>3</sup></b>
<b>Contract Guard</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>21</b>
<b>URS Corporation<sup>2</sup></b>	<b>6</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>33</b>
<b>Project Total:</b>	<b>80</b>	<b>249</b>	<b>133</b>	<b>154</b>	<b>616</b>

### EEO Statistics:

	<b>Mgt</b>	<b>Prof</b>	<b>NE</b>	<b>Hourly</b>	<b>Total</b>
Minority (Included in WVNSCO Total)	9	22	7	8	46
Female (Included in WVNSCO Total)	10	60	81	17	168

<sup>1</sup> On Board total excludes 6 casuals.

<sup>2</sup> Includes URS Corporation (formerly Dames and Moore) located on WVDP and AOC premises.

<sup>3</sup> An Involuntary Separation Program announced a further reduction of 66 persons, 51 which were separated the end of May, and an additional 15 who will be separated at the completion of Vitrification operations.

Total positions will not equal budgeted positions due to monthly transitioning of replacement requisitions.

## Total Project Earned Value Report

ITEM	CURRENT PERIOD					FISCAL YEAR-T-O-DATE					FY 2002 BAC
	B CWS Sched	B CWP Complete	ACWP Spent	SV Sched	CV Cost	B CWS Sched	B CWP Complete	ACWP Spent	SV Sched	CV Cost	
PBS 01 - HLW VIT & HIGH ACTIVITY PROCESSING	1,575	1,832	1,374	257	458	15,283	14,988	14,584	(295)	404	22,156
PBS 02 - SITE TRANSITION, DECOMMISSIONING & PROJECT COMPLETION	5,046	4,443	4,095	(603)	348	40,696	38,949	34,905	(1,747)	4,044	66,744
PBS 03 - SPENT NUCLEAR FUEL	453	224	277	(229)	(53)	5,558	3,456	3,515	(2,102)	(59)	6,842
SAFEGUARDS & SECURITY	210	180	193	(30)	(13)	1,604	1,535	1,405	(69)	130	2,528
PMB	7,284	6,679	5,939	(605)	740	63,141	58,928	54,409	(4,213)	4,519	98,270
Undistributed Budget											929
Administrative	14	9	9	(5)	-	103	122	123	19	(1)	179
WVNS MR											724
TOTAL WVNS	7,298	6,688	5,948	(610)	740	63,244	59,050	54,532	(4,194)	4,518	100,102
DOE Obligations/Expense	114	43	43	(71)	-	569	709	709	140	-	1,271
Fee/Credit/Other	836	653	653	(183)	-	6,856	5,921	5,921	(935)	-	10,200
DOE MR	-	-	-	-	-	-	-	-	-	-	1,926
Non Project	2	2	2	(1)	-	17	17	18	-	-	25
Subtotal	952	698	698	(254)	-	7,442	6,647	6,648	(795)	-	13,422
<b>FY 2002 TOTAL WVDP</b>	<b>8,250</b>	<b>7,386</b>	<b>6,646</b>	<b>(864)</b>	<b>740</b>	<b>70,686</b>	<b>65,697</b>	<b>61,180</b>	<b>(4,989)</b>	<b>4,518</b>	<b>113,524</b>

**Notes:**

All entries in thousands of dollars - sum of the parts may vary from total due to rounding.  
DOE Obligations/Exp(Noncontract PBS Costs) reported are as of May

### 3 Year Budget Plan

Project Budget	Prior	FY2002	FY 2003	FY 2004
PBS 1 High-Level Waste Processing	-	22,156	-	-
PBS 2 Transition & Project Completion	-	66,744	-	-
PBS 3 Spent Nuclear Fuel	-	6,842	3,600	-
PBS 4 Project Management & Support	-	-	-	-
PBS 5 Decontamination of Project Facilities	-	-	24,540	62,115
PBS 6 Waste Management	-	-	27,600	25,700
PBS 7 Safe Site Operations	-	-	34,260	34,000
PBS 8 Decommissioning/Project Completion	-	-	-	-
PBS SS-D Safeguards and Security	-	2,528	2,210	2,090
Prior - WBS	1,641,231	-	-	-
PMB Line	1,641,231	98,270	92,210	123,905
Undistributed Budget	-	929	-	-
WVNS Mgmt. Reserve	-	724	-	-
Contract Budget Base	1,641,231	99,923	92,210	123,905
Administrative	-	179	-	-
DOE Obligations to Other Sites Expense	69,568	1,271	-	-
Fee/Credit	172,673	10,200	-	-
DOE Mgmt. Reserve	-	1,926	-	-
Relocation	1,179	-	-	-
Non Project	53	25	-	-
TOTAL TPCE (YOE)	1,884,704	113,524	92,210	123,905

Project Funding Sources	Prior	FY2002	FY 2003	FY 2004
Dept. of Energy YOE (PBS)	1,692,586	91,395	92,210	123,905
Dept. of Energy YOE (OTHER)	1,831	1,689	-	-
Dept. of Energy C/O	8,653	-	-	-
Dept. of Energy C/O(Other)	521	-	-	-
N.Y. State Funding	149,447	9,421	9,846	13,767
Supplemental NYS (17% EIS)	5,346	350	-	-
Uncosted NYS Funding	776	-	-	-
NYS Credit/Serv	33,949	700	-	-
Non Project	53	25	-	-
TOTAL PROJECT (YOE)	1,893,109	103,580	102,056	137,672

**Assumptions:**

Project Budget/Funding is comprised of DOE and NY components  
FY02 reflects programmatic changes consistent with the reduced appropriation  
FY03 consistent with President's Budget Request  
FY04 budget level subject to decisions to be made during FY04 Budget Formulation effort currently on-going.

**Notes:**

\$200K has been added to DOE Obligations to account for the FY02 SAIC commitment  
All entries in thousands of dollars - sum of the parts  
may vary from total due to rounding.

## Total Outyear Budget and Funding

Project Budget	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
PBS 1 High-Level Waste Processing	37,779	47,330	24,400	-	-	-	-	-	-	-
PBS 2 Transition & Project Completion	28,100	47,810	58,800	-	-	-	-	-	-	-
PBS 3 Spent Nuclear Fuel	7,700	10,000	6,800	3,600	-	-	-	-	-	-
PBS 4 Project Management & Support	33,363	-	-	-	-	-	-	-	-	-
PBS 5 Decontamination of Project Facilities	-	-	-	24,540	62,115	64,458	63,986	62,616	61,196	43,826
PBS 6 Waste Management	-	-	-	27,600	25,700	26,210	31,620	32,290	32,960	49,600
PBS 7 Safe Site Operations	-	-	-	34,260	34,000	34,000	32,100	32,740	33,430	34,100
PBS 8 Decommissioning/Project Completion	-	-	-	-	-	-	-	-	-	-
PBS SS-D Safeguards and Security	-	1,977	1,395	2,210	2,090	2,140	2,200	2,260	2,320	2,380
<b>TOTAL BUDGET (YOE \$K)</b>	<b>106,942</b>	<b>107,117</b>	<b>91,395</b>	<b>92,210</b>	<b>123,905</b>	<b>126,808</b>	<b>129,906</b>	<b>129,906</b>	<b>129,906</b>	<b>129,906</b>
Project Funding	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Dept. of Energy YOE (PBS 1-SS)	106,942	107,117	91,395	92,210	123,905	126,808	129,906	129,906	129,906	129,906
N.Y. State Funding	11,026	10,791	10,028	9,846	13,767	14,090	14,434	14,434	14,434	14,434
<b>TOTAL PROJECT (YOE \$K)</b>	<b>117,968</b>	<b>117,908</b>	<b>101,423</b>	<b>102,056</b>	<b>137,672</b>	<b>140,898</b>	<b>144,340</b>	<b>144,340</b>	<b>144,340</b>	<b>144,340</b>

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015 <sup>1</sup>	S/T	HIGH LEVEL WASTE DISPOSITION <sup>1</sup>	DOE Total w/Prior
PBS 1 High-Level Waste Processing	-	-	-	-	-	-	109,509	-	109,509
PBS 2 Transition & Project Completion	-	-	-	-	-	-	134,710	-	134,710
PBS 3 Spent Nuclear Fuel	-	-	-	-	-	-	28,100	-	28,100
PBS 4 Project Management & Support	-	-	-	-	-	-	33,363	-	33,363
PBS 5 Decontamination of Project Facilities	43,226	11,960	11,980	16,670	16,770	16,870	500,213	-	500,213
PBS 6 Waste Management	49,430	38,410	36,700	37,470	24,760	21,270	434,020	288,020	722,040
PBS 7 Safe Site Operations	34,800	35,530	36,260	30,710	27,400	25,160	424,490	245,253	669,743
PBS 8 Decommissioning/Project Completion	-	52,680	53,550	54,390	69,576	73,900	304,096	-	304,096
PBS SS-D Safeguards and Security	2,450	2,510	2,580	2,650	2,730	2,800	34,692	2,400	37,092
<b>TOTAL BUDGET (YOE \$K)</b>	<b>129,906</b>	<b>141,090</b>	<b>141,070</b>	<b>141,890</b>	<b>141,236</b>	<b>140,000</b>	<b>2,003,193</b>	<b>535,673</b>	<b>2,538,866</b>
<b>4,020,785</b>									
Project Funding	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	S/T	HLW WASTE DISP TOTAL	TOTAL
Dept. of Energy YOE (PBS 1-SS)	129,906	141,090	141,070	141,890	141,236	140,000	2,003,193	535,673	2,538,866
N.Y. State Funding	14,434	15,677	15,674	15,766	15,693	15,556	220,083	59,519	279,602
<b>TOTAL PROJECT (YOE \$K)</b>	<b>144,340</b>	<b>156,767</b>	<b>156,744</b>	<b>157,656</b>	<b>156,929</b>	<b>155,556</b>	<b>2,223,276</b>	<b>595,192</b>	<b>2,818,468</b>

### Notes:

Project Budget is comprised of DOE and NY components

FY02 reflects programmatic changes consistent with the reduced appropriation.

FY03 reflects President's Budget Request

Outyears consistent with IPBS Planning Module (Dec 18, 2001) and will be modified consistent with decisions made during FY04 Budget Formulation effort currently ongoing

Project cost sharing continues at DOE:NY (90%:10%) and an additional (17%) on EIS costs except for Fuel Staging for Shipping: DOE (100%)

<sup>1</sup> Although the main components of this PBS could be fulfilled by FY2015, given planning level funding support as indicated in the table, the scope of this PBS also includes monitoring and maintenance of the HLW canisters until such time that a federal repository is available to accept WVDP HLW. WVDP HLW is not on the complex wide shipment schedule to a Federal Repository for HLW disposal. For planning purposes and due to the pending outcome of DOE and New York State negotiations regarding Project completion, long-term management and site closure, the Project assumes that the HLW canisters will be maintained in on-site interim storage until FY2036 when a shipping campaign will commence until FY2048, removing the canisters from the site and sending them to the Federal Repository for disposal. This timeframe is the latest possible opportunity WVDP will have to meet the scheduled closing of the Federal Repository. Once the WVDP HLW canisters can be put back on the DOE complex wide shipping schedule, it is presumed more reasonable dates will be accommodated for shipping the HLW off-site for disposal in a manner timely to completing the Project in FY2015 (according to planning level funding data).



# WEST VALLEY DEMONSTRATION PROJECT FINANCIAL REPORT

## FISCAL YEAR 2002

Contract Number: DE-AC24-81NE44139

Dollars expressed in thousands.

Reporting Period:  
May 2002

PBS / Title	Prior Years Uncosted (C/O)	FY 2002 BA	BA to Date	FY 2002 Costs to Date	Uncosted Obligations
OH-WV-01 HLW Vit & HAW Processing	1,939	19,950	21,889	13,511	8,377
OH-WV-02 Site Transition, Decommission & Proj Comp	3,116	53,100	56,216	32,589	23,627
OH-WV-03 Spent Nuclear Fuel	2,178	5,685	7,863	3,504	4,358
<hr/>					
SUBTOTAL WVNS EX05/EX02 CONTRACT	7,233	78,735	85,968	49,605	36,363
OH-WV-SSD Safeguards & Security(FS30)**	3	1,178	1,181	1,179	3
OHIO OFFICE OBLIGATIONS ***	428	797	1,226	709	516
TOTAL OHIO OFFICE	7,664	80,710	88,375	51,493	36,882
<hr/>					
OTHER DOE OBLIGATIONS ***	93	0	93	0	93
<hr/>					
EX05 PROJECT OBLIGATED FUNDS	7,757	80,710	88,467	51,493	36,975
Unobligated Funds:	0	10,685	10,685	0	10,685
TOTAL EX05/EX02/FS30 PROJECT FUNDING FY02	7,757	91,395	99,152	51,493	47,660
Non EX-05/EX02/FS30 Funding ***	1,416	1,422	2,838	(28)	2,866
TOTAL DOE	9,173	92,817	101,990	51,465	50,526
<hr/>					
NYSERDA NE Project (SDA Share)	0	0	0	0	0
NYSERDA NE Proj (EIS Share) + Fee	61	350	411	199	212
NYSERDA NS Project + Fee	156	9,729	9,885	8,300	1,585
NYSERDA Credit	0	700	700	467	233
NYSERDA NY Non-Project + Fee	0	25	25	18	7
<hr/>					
TOTAL WVDP:	9,390	103,621	113,011	60,448	52,564

\*\*\* See next page for individual breakdown of DOE obligations and Non EX-05/EX-02/FS30 Funding.

**WEST VALLEY DEMONSTRATION PROJECT FINANCIAL REPORT**  
**FISCAL YEAR 2002**

DOE Obligations and Non EX05 Funding Breakout

Reporting Period:

May 2002

Contract Number: DE-AC24-81NE44139

Dollars expressed in thousands.

	Prior Years			FY 2002	
	Uncosted	FY 2002	BA	Costs	Uncosted
<b>DOE Obligations &amp; Expense</b>	(C/O)	BA	to Date	to Date	Obligations
DOE Obligation: Ohio (SAIC) (PBS OH-WV-02)	93	0	93	84	9
DOE Obligation: Army COE (PBS OH-WV-02)	6	0	6	0	6
DOE Obligation: Envirocare (PBS OH-WV-02LT)	18	143	161	100	61
DOE Obligation: Battelle (PBS OH-WV-02LT)	246	48	294	285	9
DOE Obligation: SAIC (PBS OH-WV-02LT)	0	44	44	0	44
DOE Obligation: SAIC (PBS OH-WV-02LT)	0	400	400	252	148
DOE Obligation: (PBS OH-WV-03LT)	0	25	25	3	22
DOE Misc Expense Total (OH)	66	137	203	(15)	218
<b>DOE OHIO OFFICE OBLIGATIONS</b>	<b>428</b>	<b>797</b>	<b>1,226</b>	<b>709</b>	<b>516</b>
DOE Obligation: Battelle PNNL (RL) (PBS OH-WV-01)	93	0	93	0	93
<b>OTHER DOE OBLIGATIONS</b>	<b>93</b>	<b>0</b>	<b>93</b>	<b>0</b>	<b>93</b>
<b>Non EX 05/EX 02/FS 30 Funding</b>					
SR work Authorization	10	0	10	0	10
DOE OH D&D Proj Mgrs Mtg	14	0	14	4	10
ASTD Projects: VEMP OH09WT41	0	0	0	0	0
ASTD Projects: Waste Retrieval OH00WT22	226	415	641	154	486
Permeable Treatment Wall OH00SS31	123	0	123	0	123
In Situ Characterization OH01WT11	44	0	44	44	0
VEMP Equipment/Encapsulation OH00WT31	156	295	451	121	330
Large Scale D&D OH01DD11	650	572	1,222	178	1,044
DOE Prog & Prg Mgmt Manual	48	103	151	130	22
Cyber Security	7	0	7	2	4
Headquarters	111	0	111	0	111
Sick Workers Comp Act	28	(13)	15	5	10
National Spent Nuclear Fuel Program	0	50	50	0	50
EIS Credits	0	0	0	63	(63)
Undistributed Costs	0	0	0	(730)	0
<b>Non EX05 Funding Total</b>	<b>1,416</b>	<b>1,422</b>	<b>2,838</b>	<b>(28)</b>	<b>2,137</b>

# Milestones Report By PBS

## Ohio Office - West Valley Demonstration Project

Data extracted from IPABS - Approved Dataset December 18, 2001- Planning Module Milestone Report

DOE AE Level 0	DOE PSO Level 1	DOE WVDP Level 2	Milestone Field Code	IPABS #	Milestone Field Name	Milestone Type	Planning Module	Target Case	Actual Date
			<b>OH-WV-01: HLW Vitrification and Tank Heel High Activity Waste Processing</b>						
✓			PBS-OH-WV-01-2001C	36222	Complete WIR determinations for Waste Tank Farm.	Bud,MC,PBI	7/2/2001	7/2/2001	6/29/2001
	✓		PBS-OH-WV-01-2001A	23950	Complete HLW Tank Heel / Residuals Vitrification Processing.	Bud,PBI	9/30/2001	9/30/2001	9/30/2001
✓			PBS-OH-WV-01-2001B	36221	Complete HLW Tanks 8D-1 and 8D-2 Radionuclide inventory.	Bud,MC,PBI	9/30/2001	9/30/2001	9/28/2001
		✓	Previously OH-WV-01 #1282	36715	Flush Vitrification Process Systems and Equipment, Evacuate Melter, and Complete Vit Shutdown	Bud, MC, PC	9/30/2003	9/30/2002	-
			<b>OH-WV-02: Site Transition, Decommissioning, &amp; Project Completion</b>						
	✓		OH-WV-02-2001D	36224	Complete Removal of PMC Cranes and install Bridge Mounted Manipulator System	Bud,MC,PBI	4/15/2001	4/15/2001	3/30/2001
	✓		OH-WV-02-2001E	36225	Complete evaluation of Permeable Treatment Wall Pilot.	Bud,PBI	6/1/2001	6/1/2001	5/25/2001
✓			OH-WV-02-2001B	36223	Complete Final Design of the Remote Handled Waste Facility.	Bud,MC,PBI	8/30/2001	8/30/2001	8/30/2001
✓			OH-WV-02-2001C	24062	Complete Preparations and Initiate Waste Removal in Process Mechanical Cell.	Bud,MC,PBI	9/30/2001	9/30/2001	9/26/2001
	✓		OH-WV-02-2001A	24045	Ship 50,000 cubic feet of Class A LLW Off-site for disposal.	Bud,PBI	9/30/2001	9/30/2001	9/17/2001
✓			OH-WV-02-2001F	36226	Complete preparations and Initiate LLW Shipments to NTS.	Bud,MC,PBI	9/30/2001	9/30/2001	7/27/2001
		✓	OH-WV-02-2002B	35145	Continue Construction of Remote Handled Waste Facility Systems	Bud	9/30/2002	9/30/2002	-

### Milestone Type Key

Bud - Budget ; IS - Intersite Dependency; CCP - Critical Closure Path; ME Mission Complete; DP - Decision Point; PC - Project Critical; MC - Management Commitment;  
 EA - Enforceable Agreement; PE - Project End, PBI - Performance Based Incentives

## Milestones Report By PBS

### Ohio Office - West Valley Demonstration Project

Data extracted from IPABS - Approved Dataset December 18, 2001- Planning Module Milestone Report

DOE AE Level 0	DOE PSO Level 1	DOE WVDP Level 2	Milestone Field Code	IPABS #	Milestone Field Name	Milestone Type	Planning Module	Target Case	Actual Date
✓		✓	Previously OH-WV-02 #3737	24014	Complete Equipment Upgrades for Head End Cell Debris Removal	PC	9/30/2004	9/30/2006	-
		✓	Previously OH-WV-02 #3742	24025	Complete Design / Construction of the Remote Handled Waste Facility	PC	9/30/2004	9/30/2005	-
		✓	OH-WV-02-2005B	24705	Begin Cold Operations of Remote Handled Waste Facility	PC	10/1/2004	10/1/2006	-
		✓	Previously OH-WV-02 #3747	24030	Complete Preparations for TRU Waste Shipments	DP, IS	9/30/2005	9/30/2006	-
			OH-WV-02LT-2005C	24706	Complete Operational Readiness for the Remote Handled Waste Facility / Obtain DOE Start-up Approval	CCP, PC, DP	9/30/2005	9/30/2006	-
		✓	Previously OH-WV-02 #3729	24039	Complete HLW Load-out Facility Construction	PC	9/30/2006	9/30/2011	-
		✓	Previously OH-WV-02 #3740	24023	Complete Process Building Decontamination Before Final Dispositioning	PC	9/30/2010	9/30/2017	-
		✓	Previously OH-WV-02 #3749	24032	Complete Shipment of WVDP TRU Waste to Receiver Site	IS	9/30/2013	9/30/2021	-
		✓	Previously OH-WV-02 #3752	24035	Complete Shipments of LLW for Off-site Disposal	IS	9/30/2014	9/30/2022	-
		✓	Previously OH-WV-02 #3736	24020	Complete Final Dispositioning of the Process Building / Vitrification Facility / HLW Tank Farm	PC	3/31/2015	9/30/2022	-
		✓	Previously OH-WV-02 #3750	24033	Complete D&D Documentation in Support of Project Completion	PC	9/30/2015	9/30/2023	-

#### Milestone Type Key

Bud - Budget ; IS - Intersite Dependency; CCP - Critical Closure Path; ME Mission Complete; DP - Decision Point; PC - Project Critical; MC - Management Commitment;  
EA - Enforceable Agreement; PE - Project End, PBI - Performance Based Incentives

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✓			<b>OH-WV-03: Spent Nuclear Fuel</b>						
		✓	Previously OH-WV-03 #1305	23988	Complete Preparation / Approvals for Spent Nuclear Fuel Shipment to INEEL	DP, IS, Bud	3/31/2001	3/31/2001	3/30/2001
			OH-WV-03-2001A	36228	Complete Spent Nuclear Fuel Cask Loading Operations into TN-Casks	Bud,MC,PBI	6/30/2001	6/30/2001	5/25/2001
		✓	Previously OH-WV-03 #1306	23989	Maintain Readiness for Shipment of WV Spent Nuclear Fuel to INEEL	EA, IS	9/30/2002	9/30/2001	-
		✓	OH-WV-03-2002A	35113	Begin Clean-up of Fuel Receiving and Storage Facilities	Bud	10/1/2001	10/1/2001	10/1/2001
		✓	Previously OH-WV-03 #1308	23987	PBS-OH-WV-03: Spent Nuclear Fuel Program Completed	ME, PE	9/30/2005	9/30/2005	-

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