

memorandum

Ohio Field Office
West Valley Demonstration Project

DATE: September 13, 2002

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

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

Reference: Letter WD:2002:0470 (84402), J. L. Little to A. C. Williams, "WVDP Progress Report - July - 2002," dated September 6, 2002

Attached is the WVDP Progress Report for July 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

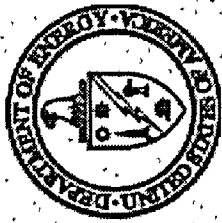
Attachment: Referenced Letter

cc: M. W. Frei, DOE-HQ, EM-30, 5B-050/FORS, w/att.
S. A. Robison, DOE-HQ, EM-31, 2175/CLOV, w/att.
L. J. Williams, DOE-CH, IG-349, /CH, w/att.
J. R. Craig, OH/OOM, OSE-410, w/att.
P. W. Greenwalt, OH/CFO, OSE-339, w/att.
K. B. Hansen, OH/CFO, OSE-338, w/att.
C. J. Glenn, NRC, NMSS/DWM/DCB, MS 7 F25, w/att.
B. C. Bower, OH/WVDP, WV-DOE, w/att.
T. J. Jackson, OH/WVDP, WV-DOE, w/att.
J. J. May, OH/WVDP, WV-DOE, w/att.
H. R. Moore, OH/WVDP, WV-DOE, w/att.
D. W. Sullivan, OH/WVDP, WV-DOE, w/att.
P. L. Piciulo, NYSERDA, WV-17, w/att.
J. Pitkin, NYSERDA-Albany, w/att.

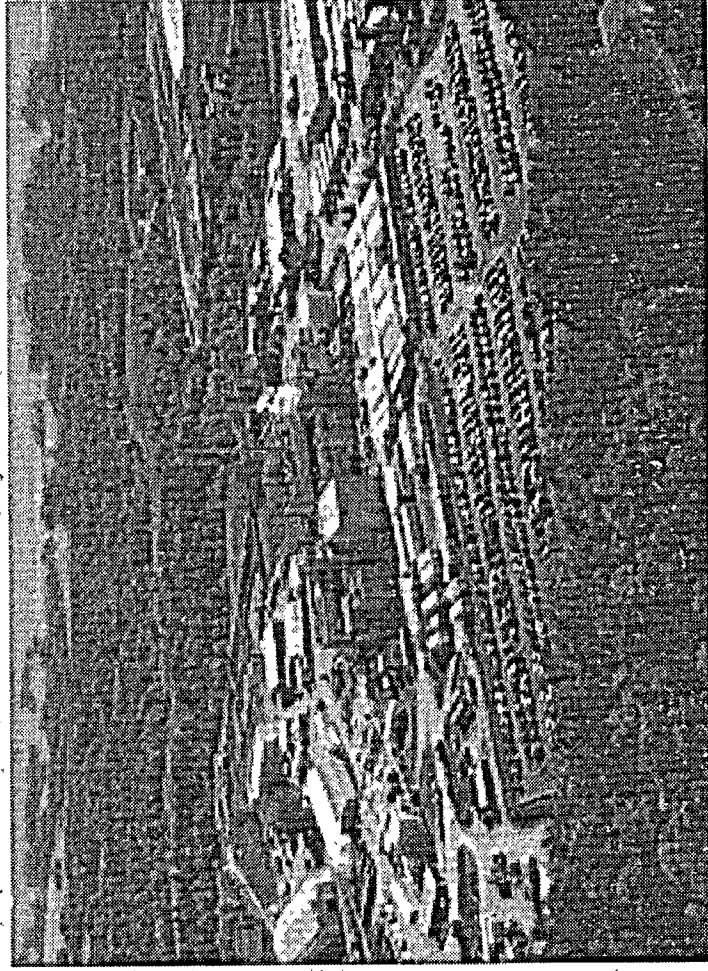
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West Valley Demonstration Project Progress Report



July 2002

West Valley Nuclear Services Company

West Valley Demonstration Project Progress Report July 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	5
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	12
Safe Site Operations	13
PBS OH-WV-03(LT) Spent Nuclear Fuel	15
Spent Nuclear Fuel Shipping Project	15
Fuel Receiving and Storage Area Decontamination Project	16
Safeguards and Security	18
Overhead / Administrative	19
Total Project Earned Value Report	21
Budget Plan	22
WVDP Financial Report	23

PROGRESS REPORT

Report No. 237

Reporting Period: July 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 continue to support additional tank washing activities to remove alpha-transuranic fixed contamination, while preparations are made for melter shutdown and vitrification facility deactivation.

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

At the end of July, the melter was running in idle mode with Canister WV-409, the 272nd canister produced overall and the tenth in fiscal year 2002, under the melter feed pour spout.

WVNSCO completed two milestones in July, both of them on or ahead of their due date. The July milestones were: install equipment and flush melter feed hold tank (MFHT); and complete start-up and turnover to operations of Scrap Removal Room (SRR) airlock.

The final Waste Tank Farm (WTF) transfer to Vitrification took place on July 18. The final cold chemical batch preparations began on July 22. The final "waste initial" samples, the final "glass former" samples, and the final "waste plus glass former" samples were sent to Analytical & Process Chemistry (A&PC) Lab and analyzed.

The final Melter Feed Hold Tank (MFHT) water flush was completed, including three flushes, pre- and post-flush video inspections, and pre- and post-flush radiation probe readings. With the completion of the MFHT flush, all HLW system flushing prior to the final melter batch has been completed. Melter operations for the final batch began on July 31.

An alternate method to remove the last 100,000 gallons of liquid from HLW 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). A new submersible pump will be used to process the remaining sodium bearing liquid through STS and Liquid Waste Treatment System (LWTS). Major component machining is complete and assembly of the parts has begun.

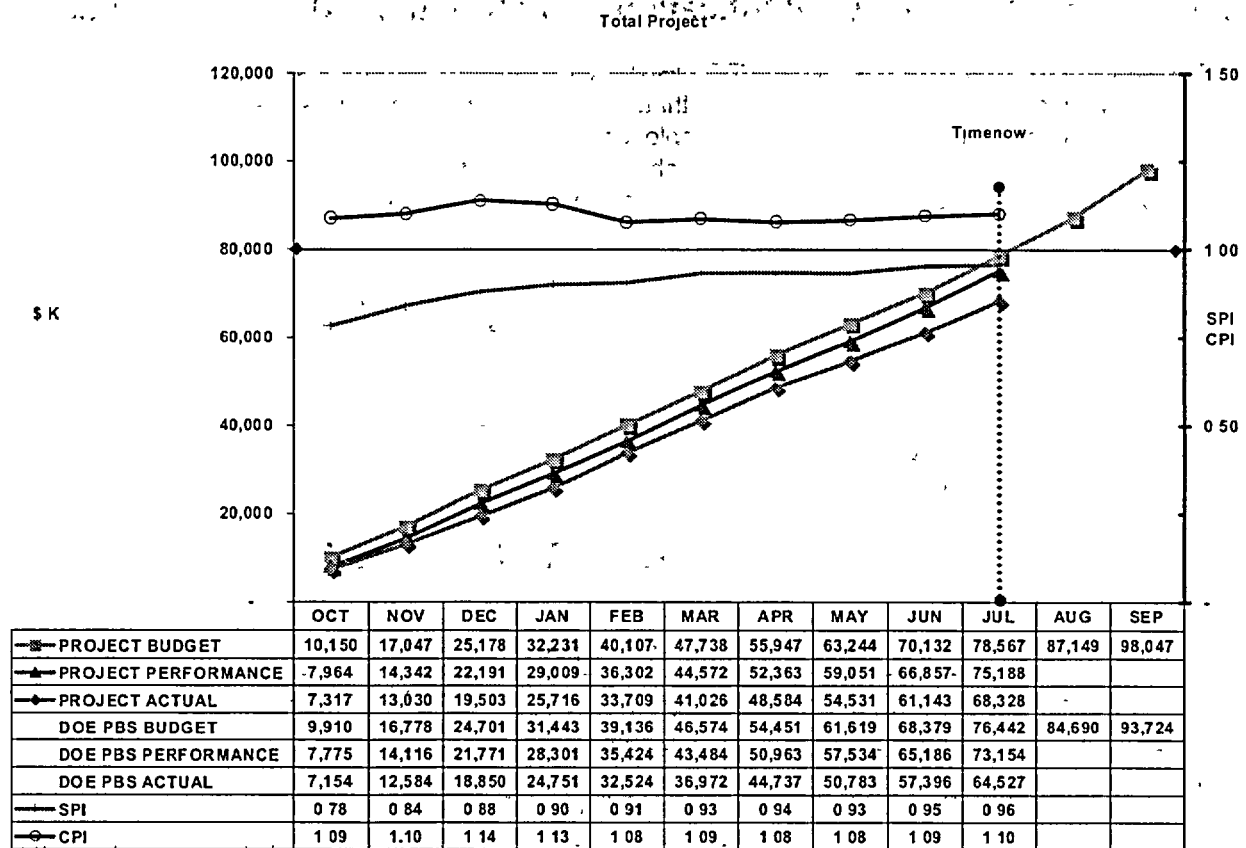
Work associated with turnover of the Scrap Removal Room (SRR) Airlock was completed and the turnover package was signed off on July 26, 2002. A report detailing the design and construction of the Airlock was prepared. The report was issued to the DOE as part of the close out of Milestone FC-8, "Complete Start-up and Turnover to Operations of Scrap Removal Room (SRR) Airlock." The milestone letter was issued on July 30.

The design/build subcontract for the Remote Handled Waste Facility (RHWF) is approximately 43% complete at the end of July. After a comprehensive review of personnel exposures, the construction site is no longer posted as a radiological buffer area. Liquid penetrant examination of welds was performed on the liner of the Buffer Cell and repairs started. Testing will follow.

The Peer Review Team has been identified and a working schedule developed for finalizing the Facility Characterization Management Plan. The on-site review is scheduled for the week of August 19th.

On July 2, 2002, WVNSCO operators were in the process of using nitrogen to backfill the void space in a cask loaded with spent nuclear fuel when they discovered that the pressure gauge they were using to manually control cask pressure was not reading correctly. It was subsequently determined that this caused pressurization of both of the spent fuel shipping casks. The cask Safety Analysis Reports were reviewed and the cask designer was contacted to confirm that the casks, although pressurized, were safe. The excess nitrogen was safely vented from both casks. A corrective action plan is being developed to address the issues identified by Quality Assurance during their independent evaluation of the discrepant pressure gauge.

Changes in radiological conditions due to the work being performed in the Fuel Receiving and Storage Area (FRS) have resulted in unplanned exposure to personnel who were assigned to work in the facility. An independent review team commissioned by the WVNSCO President concluded that the unplanned



exposures most likely occurred during removal of a section of weir gate and/or canister lift rack from the fuel pool. A corrective action plan has been developed and implemented based on the final report by the team.

There were two Occupational Safety and Health Act (OSHA) recordable incidents in July. The WVDP's calendar year-to-date Total Recordable Case Rate (TRC) to 2.05.

There were no reportable clothing, skin, nasal, or internal contaminations for WVDP radiological workers in July.

Assessments/Actions

The negative schedule variance of \$3.4M for the Project is primarily due to the delay in shipping the spent nuclear fuel to Idaho National Engineering and Environmental Laboratory (INEL), 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 July from positive \$5.7M in June to a positive \$6.9M. This is a result of savings realized on an intermodal waste shipment, less WVNSCO labor and subcontractor services expenses, expenses for snow removal, control of HVAC expenses, eliminating duplicate fire protection inspection/testing, and less support required for routine site operations and safe storage of waste.

Project performance to date through July is 80% of work planned, 77% of work performed and 70% 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, mobilize and vitrify the 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.

VITRIFICATION DEACTIVATION PROJECT

MILESTONES			
Description	Scheduled	Completed	Status
HLW-1: REMOVAL OF MOBILIZATION PUMP FROM M-1 RISER AND INSTALLATION OF THIRD MAST TOOL DELIVERY SYSTEM			
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	
HLW-2: OBTAIN PRE AND POST WASH BURNISHING SAMPLES			
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	
HLW-3: HLW FLUSHING ACTIVITIES			
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	
HLW-4: COMPLETE LIQUID WASTE TREATMENT SYSTEM (LWTS) EVAPORATOR FLUSH.	05/15/02	04/30/02	
HLW-5: COMPLETE INSTALLATION OF FLUSHING EQUIPMENT AND COMPLETE MINIMUM OF TWO FLUSHES OF VITRIFICATION FACILITY IN-CELL PROCESS PIT.	05/31/02	05/06/02	
HLW-6: COMPLETE HLW VITRIFICATION OPERATIONS			
A Deployment of Evacuated Canister	09/30/02		On Schedule
B Complete HLW Vitrification Operations	09/30/02		On Schedule
HLW-7: HARDWARE MODIFICATIONS FOR SODIUM-BEARING WASTEWATER PROCESSING	08/31/02		On Schedule
HLW-8: INSTALL EQUIPMENT AND FLUSH MELTER FEED HOLD TANK (MFMT)	08/31/02	07/30/02	

HLW-6A

Two canisters to be utilized as evacuated canisters are under vacuum in the Load-In Facility (LIF). Mock-ups conducted in the LIF identified improvements to be made to the cage transport rack. The completed modifications have been successfully tested in the LIF.

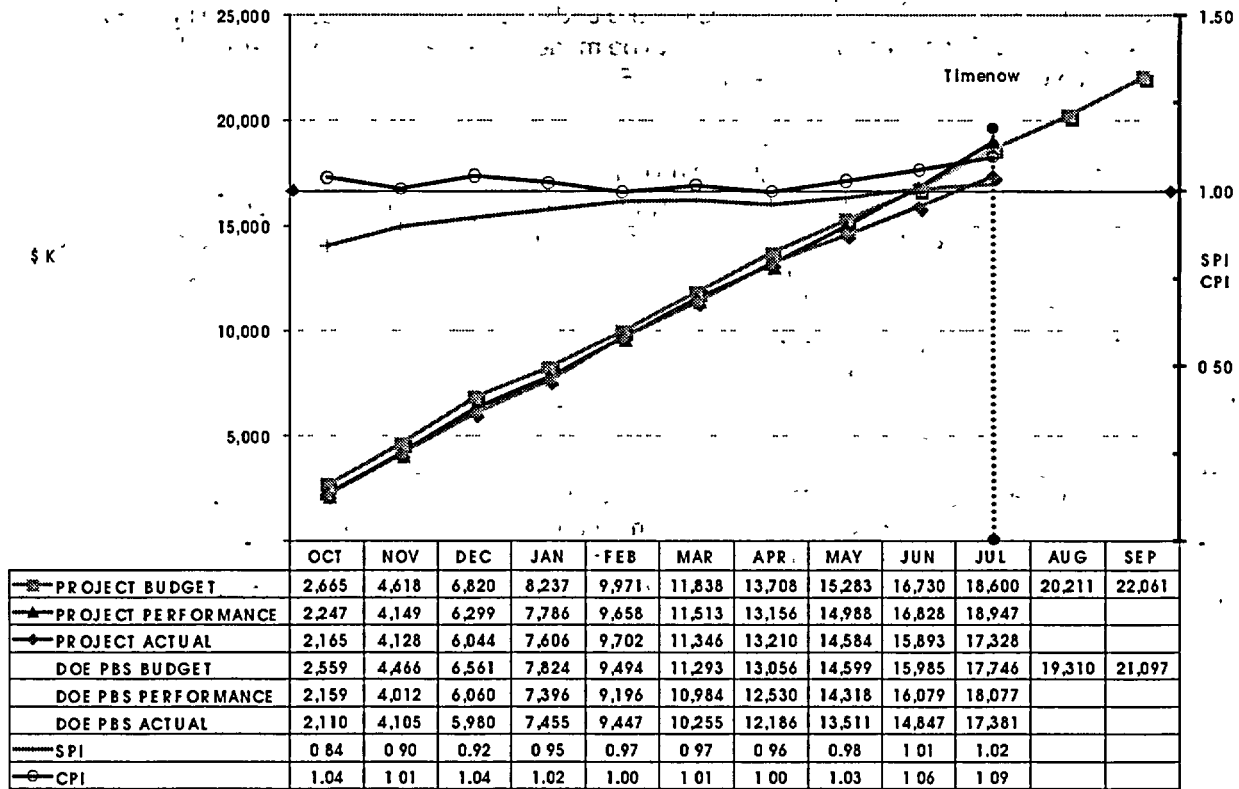
HLW-7

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). A new submersible pump will be used to process the remaining sodium bearing liquid through STS and Liquid Waste Treatment System (LWTS). Major component machining is complete and assembly of the parts has begun. The WVNSCO-supplied submersible pump and water hydraulic cylinders have been taken to the fabricators to support assembly and testing. Design of the vault drying system for HLW tanks 8D-1 and 8D-2 is expected to be completed by September 30, 2002.

HLW-8

The final MFHT water flush was completed. Letter WD:2002.0400, J. Paul to A. C. Williams, "Completion of FY2002 Contract Milestone HLW-8; Install Equipment and Flush Melter Feed Hold Tank (MFHT)," was issued on July 30, 2002. The MFHT flushing activities included three flushes, pre- and post-flush video inspections, and pre- and post-flush rad probe readings. The MFHT has been reconfigured to process the final vitrification batch.

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 July.

At the end of July, performance to date is 84% of work planned, 86% of work performed and 76% 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 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
FC-1: GENERAL PURPOSE CELL (GPC) AND PROCESS MECHANICAL CELL (PMC) INFRASTRUCTURE			
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	
FC-3: COMPLETE PREREQUISITES AND INFRASTRUCTURE IMPROVEMENTS REQUIRED FOR INITIAL OPERATIONS ACTIVITIES IN PREPARATION FOR DECONTAMINATION OF GENERAL PURPOSE CELL.			
Complete prerequisites and infrastructure improvements required for initial operations in the GPC.	04/30/02	04/29/02	
FC-4: COMPLETE REFURBISHMENT OF GPC SHIELD WINDOW A, INSTALLATION AND CHECK OUT OF MANIPULATOR RAIL SYSTEM FOR WINDOW A, AND WVNSCO READINESS ASSESSMENT.			
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	
FC-7: REMOVAL AND PACKAGING OF RAM TABLE FROM PROCESS MECHANICAL CELL (PMC).			
Complete the removal and packaging of the RAM table and 20 drums of debris from the PMC	04/30/02	04/30/02	
FC-8: COMPLETE START-UP AND TURNOVER TO OPERATIONS OF SCRAP REMOVAL ROOM (SRR) AIRLOCK	07/30/02	07/30/02	
FC-9: PERFORM DECONTAMINATION OF GENERAL PURPOSE CELL (GPC)	09/30/02		On Schedule

FC-8

Work associated with turnover of the Scrap Removal Room (SRR) Airlock was completed and the turnover package was signed off on July 26, 2002. A report detailing the design and construction of the Airlock was prepared. The report was issued to the DOE as part of the close out of Milestone FC-8, "Complete Start-up and Turnover to Operations of Scrap Removal Room (SRR) Airlock." The milestone letter was issued on July 30.

FC-9

The new GPC clean-up work order to incorporate the requirements of PSR-18 and establish the material flowpath through the SRR and SRR Airlock was issued. A modification to SOP 2-40, "Tool and Material Movement into Process Mechanical Cell and the General Purpose Cell," is in preparation to allow drums to be brought into the GPC via the SRR/GPC hatch.

The WVNSCO Corrective Action Plan was transmitted to DOE in response to the findings and recommendations (observations of note and areas of improvement) identified during the DOE Readiness Assessment. The one pre-start item and one of the two post-start items identified during the DOE Readiness Assessment have been closed. The DOE-WV completed their surveillance on the one pre-start item and concurred the item is complete. The closure documentation was forwarded to DOE-OH for their concurrence on July 19.

Diesel & Condensate Tanks Disposition Project

Tank 31D-4B was completely size reduced and packaged along with its accompanying transportation wagon, and the area cleaned. Additionally, Tank 31D-4A and its transportation wagon were completely size reduced and all tank metals and approximately 95% of the transportation wagon metals were contained.

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, and waste minimization

MILESTONES			
Description	Schedule	Complete	Status
LL-1. LOW LEVEL WASTE SHIPMENT/DISPOSAL			
Ship and dispose of 100% (16,000 cubic feet) of historical annual generation of LLW	12/31/01	12/03/01	
WM-1: TRU WASTE PROGRAM			
Complete the development of a WVDP TRU Waste Program	05/31/02	05/29/02	
WM-2: SHIP WASTE GENERATED FROM FRS DECONTAMINATION PROJECT	09/30/02		On Schedule

WM-2

Pre-shipment activities are underway for the shipment of FRS debris. Activities include: comment resolution on the Nevada Test Site (NTS) waste profile, final characterization of containers, container certifications, and preparation of shipment paperwork. The first trucks are tentatively being scheduled for loading beginning August 26, 2002.

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.

Status: The design/ build subcontract is approximately 43% complete at the end of July. Routine environmental and safety reviews conducted during the month did not identify any significant findings. After a comprehensive review of personnel exposures, the construction site is no longer posted as a radiological buffer area.

Reports from DOE surveillance of subcontractor activities and a joint DOE/ WVNSCO audit of the project were received. Hardware installed in the field and the engineering basis of the design were acceptable. Technical Advisories were sent to the subcontractor and issue reports were generated to address instances of non-compliance with procedures. Corrective actions are underway and should be completed in August and September. The areas where actions are required involve processing of Approval Requests, nonconformance report reviews and posting of field changes on drawings.

Liquid penetrant examination of welds was performed on the liner of the Buffer Cell and repairs started. Testing will follow. Similar installation work is underway in the Work Cell. Examination, repairs and testing will follow. Settings on the welder were revised to reduce the number of indications developing after the initial repairs. The subcontractor process for tracking repairs was also improved.

Interior lighting installation is continuing. Underground drains for the tank vault area were extended at the end of July. Concrete forms for an initial set of precast floor and wall sections were removed. Forms for the next set of precast sections will be built in August. Concrete placement will continue over the course of the next few months. Other field work continues to be limited because suppliers have still not yet been able to deliver equipment earlier than was initially scheduled.

The subcontractor team continued engineering of logic and control drawings. Radiological instruments and stack modeling services were procured. Preparation of fabrication drawings and other vendor submittals for equipment are continuing, though deliveries of equipment are not likely to begin until late August. Shipment of waste water tanks was delayed again and is now forecast for late August.

There is no change in the status of the Work Cell cranes and manipulators. Lower-tier subcontractors responsible for supplying this equipment continue to be engaged in a dispute. The appropriate DOE authorities are up-to-date regarding the options for possible resolution. Alternate suppliers have been contacted in order to develop some contingency that might maintain the schedule for completion of the project.

Professional engineering services were ordered to oversee the installation of the radioactive waste water line and sanitary sewer line. Other engineering for the utilities is still ongoing and should be complete in August. Engineering of pavements and roadways should be complete in September. Proposals are due in late August for the shielded forklift. Preparation of the Documented Safety Analysis began in July.

The subcontractor safe work hours have increased to over 44,000 hours since the last injury. Preventing strains continues to be the focus of safety briefings and work planning efforts.

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
CP-1: DEVELOP PLAN FOR RADIOLOGICAL CHARACTERIZATION OF THE VITRIFICATION FACILITY, WASTE TANK FARM, AND MAIN PLANT PROCESS BUILDING.			
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	
CP-2: VALIDATE THE RADIOISOTOPE INVENTORY ESTIMATE FOR THE MINIATURE CELL IN THE MAIN PLANT PROCESSING BUILDING.	05/31/02	05/30/02	
CP-3: FINALIZE FACILITY CHARACTERIZATION MANAGEMENT PLAN (FCMP)			
A Complete External Peer Review of the FCMP	09/30/02		On Schedule
B Complete Characterization Activities	09/30/02		On Schedule

CP-3

The Peer Review Team has been identified and a working schedule developed. WVNSCO is assembling information to send to the team. The on-site review is scheduled for the week of August 19th. A conference call has been set up for August 6 to discuss the overall schedule for the week

XC-2 Entry

Dose rates collected from solvent vessels are being evaluated with respect to physical sampling. The floor decontamination test patch was completed and deemed successful at reducing dose to workers while in the cell. Work instructions are being prepared to complete the floor decontamination activities. A Sampling and Analysis Plan is being drafted to collect physical samples from the Plutonium (Pu) cycle vessels.

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)

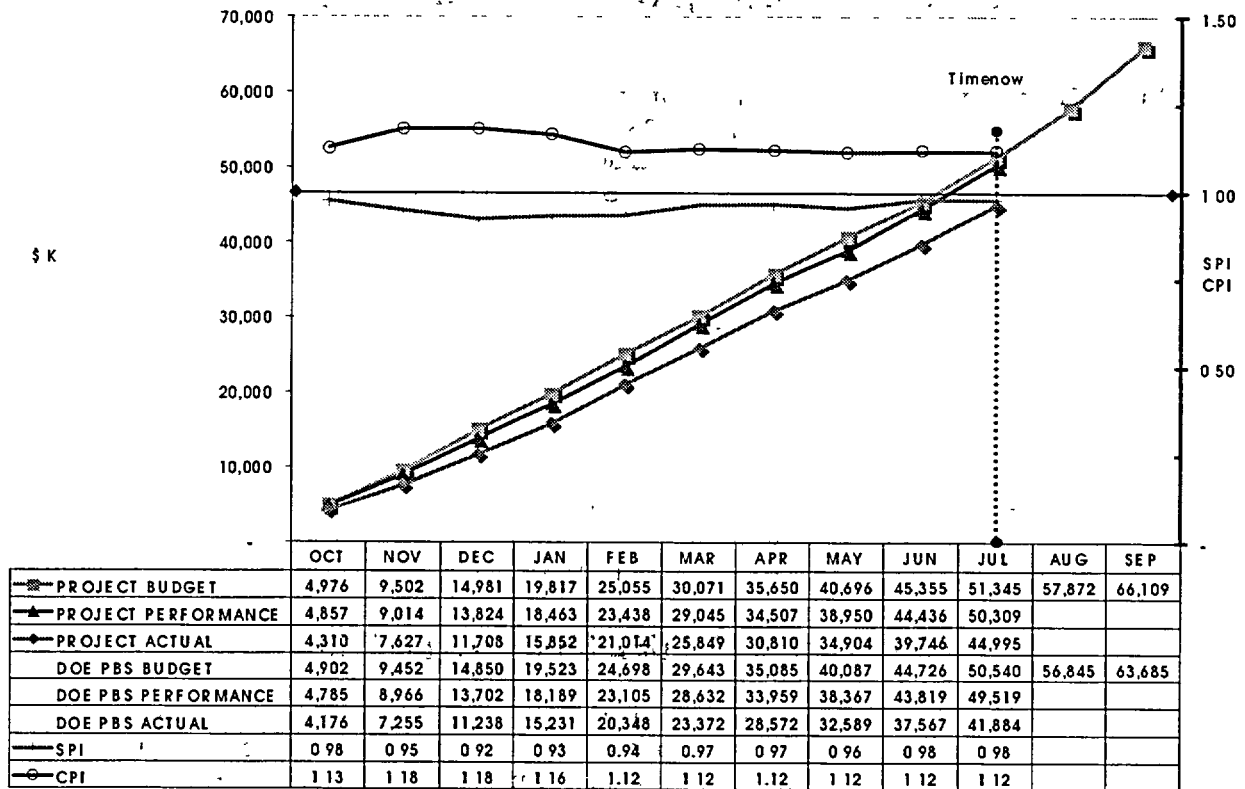
The Decommissioning and/or Long-term Stewardship Environmental Impact Statement (EIS) schedule is being revised based on comments received from the New York State Energy Research and Development Authority (NYSERDA), the U.S. Nuclear Regulatory Commission (NRC), and New York State Department of Environmental Conservation (NYSDEC). Following revision, the DOE will provide copies for final review to NYSERDA, NYSDEC, NRC, the U.S. Environmental Protection Agency (EPA), and the New York State Department of Health (NYSDOH).

On July 31, 2002, the revised Notice of Intent (NOI) for the Decommissioning and/or Long-term Stewardship Environmental Impact Statement was provided to the U.S. Nuclear Regulatory Commission, U.S. Environmental Protection Agency, New York State Department of Environmental Conservation, and New York State Department of Health for their review. The version of the NOI provided to the regulators did not include a DOE / NYSERDA agreed upon set of alternatives but contained enough information on possible alternatives to facilitate meaningful feedback.

The Preliminary Waste Management Environmental Impact Statement (EIS) is being revised to incorporate comments received from the U.S. Department of Energy (DOE) Environmental Management (EM), Office of General Counsel, and Environmental Safety and Health, and will be resubmitted to DOE Headquarters for final approval.

MILESTONES			
Description	Schedule	Complete	Status
SAR-1: CONSOLIDATED DOCUMENTED SAFETY ANALYSIS			
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	

PBS 2 - (OH-WV-02LT) SITE TRANSITION, DE COMMISSIONING & PROJECT COMPLETION



PBS OH-WV-02LT Assessment/Actions

PBS-OH-WV-02LT has experienced a negative schedule variance of \$1.0M through July due to delay of procurements, deliveries and subcontractor services. Currently, these delays are not impacting completion of FY 02 goals and objectives.

The positive cost variance of \$5.3M is a result of a savings realized from an intermodal waste shipment and less than planned costs associated with WVNSCO 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 for subcontractor snow removal; control of HVAC subcontractor expenses; management of miscellaneous procurements and repairs.

At the end of July, performance to date is 78% of work planned, 76% of work performed and 68% 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.

INEEL had planned to take gas samples from both casks. Because of the delay in shipment, project plans were altered to take these samples at West Valley and ship them to Idaho for analysis. Following cask gas sampling, both casks were successfully helium leak tested. The casks were extensively radiologically surveyed and no evidence of weeping was detected. The air brakes on both rail cars were successfully tested on July 31, 2002. This completes all physical work on the casks, other than minor repairs and touch up painting on the rail car.

On July 2, 2002, WVNSCO operators were in the process of using nitrogen to backfill the void space in a cask loaded with spent nuclear fuel when they discovered that the pressure gauge they were using to manually control cask pressure was not reading correctly. The operators secured nitrogen backfilling operations and made the proper notifications. It was quickly confirmed that the pressure gauge was reading gauge pressure instead of absolute pressure. This resulted in pressurization of the BRP cask to approximately 10 psig and pressurization of the REG cask to approximately 15 psig. After securing operations, efforts were focused on ensuring that the casks were in a safe condition. The cask Safety Analysis Reports were reviewed to confirm that the casks are designed to withstand 100 psig and were hydrostatically tested at 190 psig. The cask designer, Transnuclear, was contacted to confirm that the casks, although pressurized, were safe. The excess nitrogen was safely vented from both casks by July 24, 2002; this completes work on the casks to maintain them in a ready to ship condition. A corrective action plan is being developed to address the issues identified by QA during their independent evaluation of the discrepant pressure gauge.

FUEL RECEIVING AND STORAGE (FRS) AREA DECONTAMINATION PROJECT

MILESTONES			
Description	Schedule	Complete	Status
FC-2: REMOVE AND PACKAGE THE EMPTY SPENT FUEL STORAGE CANISTERS			
FC-2 Remove the 147 empty spent fuel storage canisters from the pool and package for disposal	12/31/01	12/21/01	
FC-5: REMOVE AND PACKAGE THE FUEL STORAGE RACKS.	04/15/02	04/15/02	
FC-6: REMOVE EQUIPMENT IN THE CASK UNLOADING POOL (CUP) AND PACKAGE FOR DISPOSAL.	05/30/02	05/29/02	
FRS-1: INITIATE LOWERING FUEL STORAGE AND CASK UNLOADING POOL LEVEL	09/30/02		On Schedule

FRS-1:

Changes in radiological conditions due to the work being performed in the FRS have resulted in unplanned exposure (uptakes) to personnel who were assigned to work in the facility. Based on an investigation that was performed by an independent review team commissioned by the WVNSCO President, it was determined that the unplanned exposures most likely occurred during removal of a section of weir gate and/or canister lift rack from the fuel pool on April 24 and May 10, 2002, respectively. A corrective action plan is being developed based on the final report by the independent review team. The focus of this corrective action plan has been developed and implemented to identify those actions which need to be completed prior to the resumption of work in the FRS. Conservative measures will be taken to protect workers until more information is obtained on the variables which can cause significant changes in radiological conditions. Three briefings were conducted to discuss the FRS uptake event with D&D Operations, Rad Protection Technicians and all other operations/field personnel who were interested.

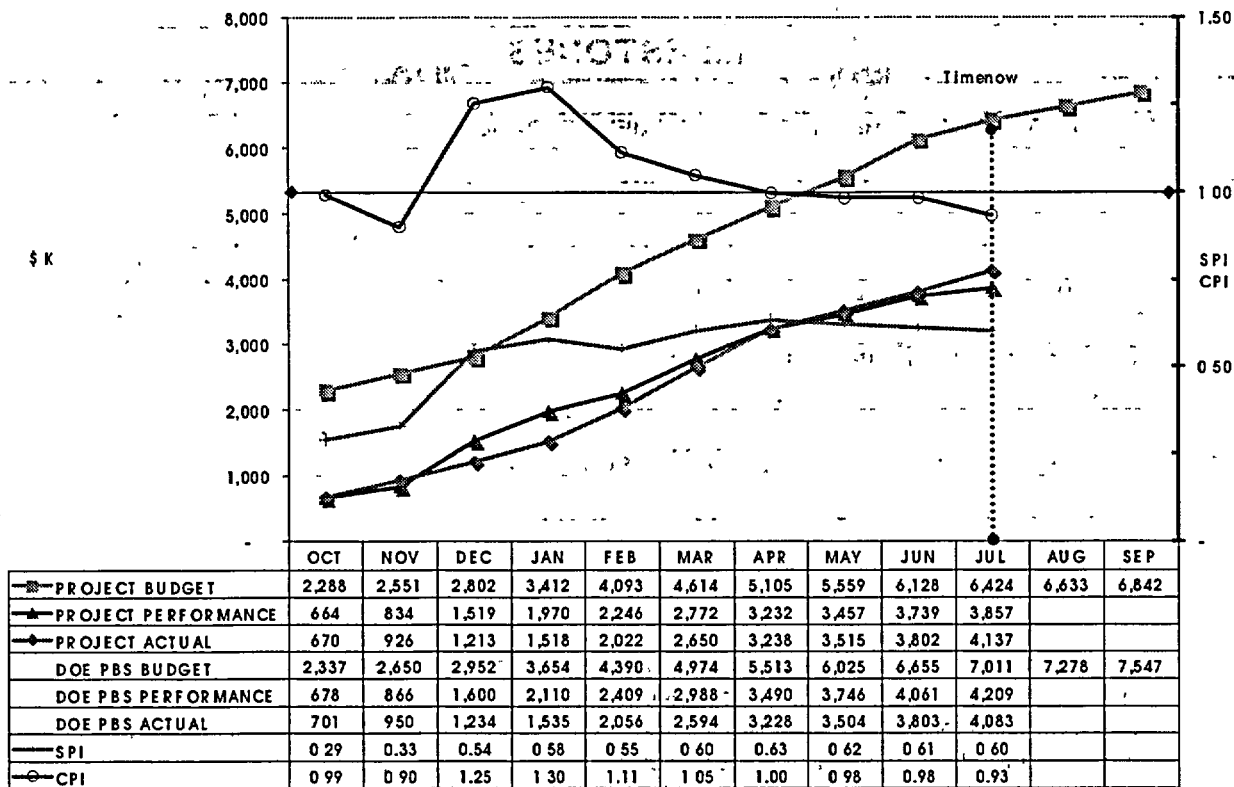
Pool water visibility has returned to pre-diver conditions after the completion of treatment to remove dissolved solids and drop out suspended solids. Credit for this effort is largely due to the performance of a cross-functional team that included representatives from D&D Operations, Main Plant Operations, the Site Water Team, the Project Integration Office, Analytical and Process Chemistry, Radiation Protection, and the FRS Project departments.

Work requests have been issued for removal of several portions of the swing arm and trolley in one piece. These supporting materials will be mounted to the canister bridge upon completion of their fabrication and delivery.

Pre-discharge pool water sample results were received and reviewed with Environmental Affairs. All results indicate that SPDES discharge limits should be met when this water is introduced to the Lagoon System.

High Integrity Container (HIC)-F dewatering was completed by Main Plant Operations. This HIC is now ready to be transferred to a Sure Pak in the North FRS yard later this year.

PBS 3 - (OH-WV-03/LT) SPENT NUCLEAR FUEL



PBS OH-WV-03LT Assessment/Actions

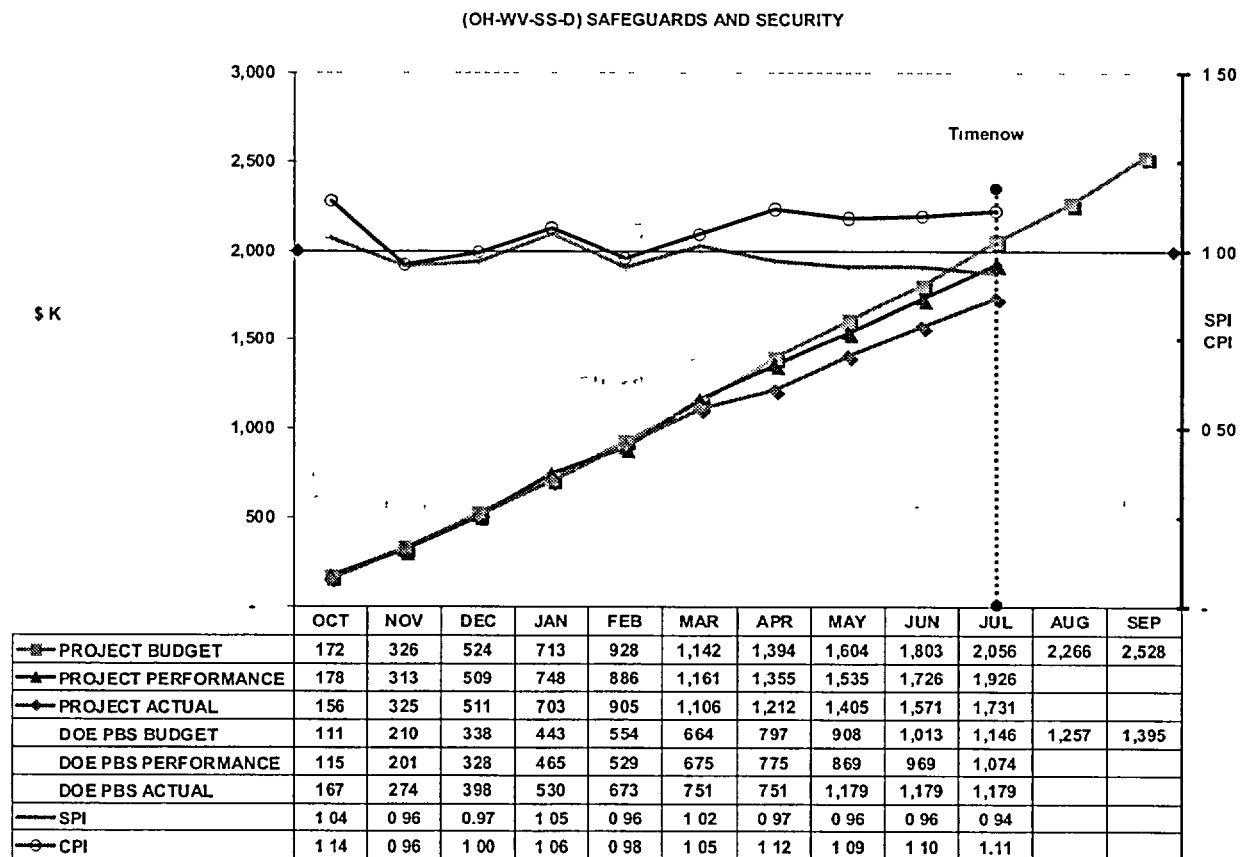
PBS-OH-WV-03LT has a negative schedule variance, which is due to the delay in shipping the Spent Nuclear Fuel to INEEL.

PBS-OH-WV-03LT has a negligible cost variance through July. The slight increase was due to additional labor necessary to complete the helium leak testing and gas sampling on the SNF casks additional lab support used to correct the SNF pool water clarity.

At the end of July, performance to date is 94% of work planned, 56% of work performed and 60% 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.

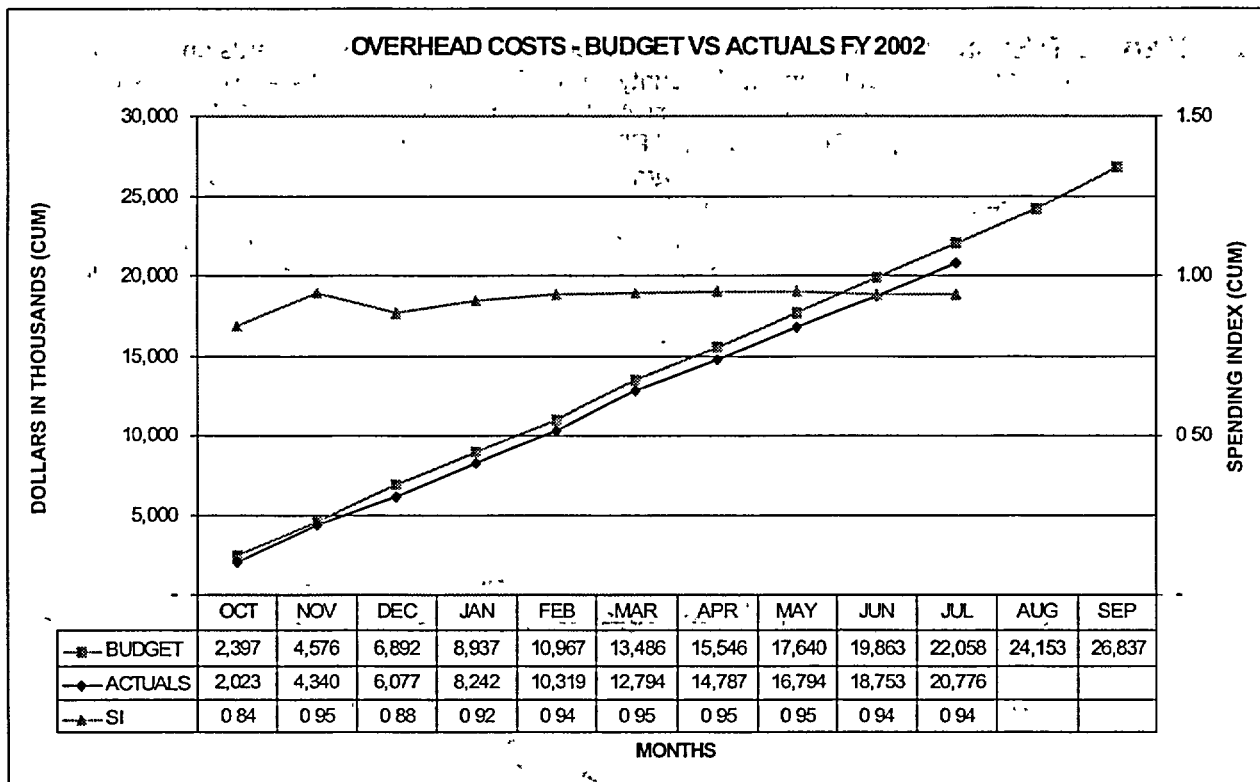


PBS OH-WV-SS-D Assessments/Actions

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

At the end of July, performance to date is 81% of work planned, 76% of work performed and 68% of work costed

Overhead/Administrative



WVNSCO hosted a Board of Directors Meeting of the Upstate New York Regional Minority Purchasing Council at which Project status update, procurement opportunities and group on interaction with the media were discussed.

Assessment/Actions

Assessment: The underrun in the overhead accounts has increased from \$1110K to \$1282K during July 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 remains 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 but the negative variance in labor has begun to decrease slightly as a result of the recent employee separation programs. The direct labor system costs overhead at a rate based on an estimate at completion (EAC) of \$25,392K.

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 July 31, 2002

	<u>Mgt</u>	<u>Prof</u>	<u>NE</u>	<u>Hourly</u>	<u>Total</u>
WVNSCO On Board ¹	76	184	117	133	510
Contract Guard	0	0	0	23	23
URS Corporation ²	<u>6</u>	<u>27</u>	<u>0</u>	<u>0</u>	<u>33</u>
Project Total:	82	211	117	156	566

EEO Statistics:

	<u>Mgt</u>	<u>Prof</u>	<u>NE</u>	<u>Hourly</u>	<u>Total</u>
Minority (Included in WVNSCO Total)	9	17	6	8	40
Female (Included in WVNSCO Total)	11	52	71	17	151

¹ On Board total excludes 6 casuals

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

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

Total Project Earned Value Report

ITEM	CURRENT PERIOD					FISCAL YEAR-TO-DATE					FY 2002 BAC
	BCWS Sched	BCWP Complete	ACWP Spent	SV Sched	CV Cost	BCWS Sched	BCWP Complete	ACWP Spent	SV Sched	CV Cost	
PBS 01 - HLW VIT & HIGH ACTIVITY PROCESSING	1,870	2,119	1,435	249	684	18,600	18,947	17,328	347	1,619	22,061
PBS 02 - SITE TRANSITION, DECOMMISSIONING & PROJECT COMPLETION	5,991	5,873	5,249	(118)	624	51,345	50,307	44,995	(1,038)	5,312	66,109
PBS 03 - SPENT NUCLEAR FUEL	296	118	335	(178)	(217)	6,424	3,857	4,137	(2,567)	(280)	6,842
SAFEGUARDS & SECURITY	252	200	160	(52)	40	2,056	1,926	1,731	(130)	195	2,528
PMB	8,409	8,310	7,179	(99)	1,131	78,425	75,037	68,191	(3,388)	6,846	97,540
Undistributed Budget											
Administrative	26	21	5	(5)	16	142	149	136	7	13	506
WVNS MR											1,613
TOTAL WVNS	8,435	8,331	7,184	(104)	1,147	78,567	75,186	68,327	(3,381)	6,859	99,659
DOE Obligations/Expense	195	274	274	79	-	960	1,039	1,039	79	-	1,976
Fee/Credit/Other	836	605	605	(231)	-	7,691	7,087	7,087	(604)	-	10,200
DOE MR	-	-	-	-	-	-	-	-	-	-	2,004
Non Project	2	8	8	5	-	21	21	31	-	-	25
Subtotal	1,033	886	886	(147)	-	8,672	8,147	8,157	(525)	-	14,205
FY 2002 TOTAL WVDP	9,468	9,217	8,070	(251)	1,147	87,239	83,333	76,484	(3,906)	6,859	113,864

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 June

3 Year Budget Plan

Project Budget	Prior	FY2002	FY 2003	FY 2004
PBS 1 High-Level Waste Processing	-	22,061	-	-
PBS 2 Transition & Project Completion	-	66,109	-	-
PBS 3 Spent Nuclear Fuel	-	6,842	3,600	-
PBS 4 Project Management & Support	-	-	-	-
PBS 5 Decontamination of Project Facilities	-	-	24,540	24,600
PBS 6 Waste Management	-	-	27,600	27,800
PBS 7 Safe Site Operations	-	-	34,260	37,240
PBS 8 Decommissioning/Project Completion	-	-	-	-
PBS SS-D Safeguards and Security	-	2,528	2,210	2,570
Prior - WBS	1,641,231	-	-	-
PMB Line	1,641,231	97,540	92,210	92,210
Undistributed Budget	-	-	-	-
WVNS Mgmt. Reserve	-	1,613	-	-
Contract Budget Base	1,641,231	99,153	92,210	92,210
Administrative	-	506	-	-
DOE Obligations to Other Sites/Expense	69,568	1,976	-	-
Fee/Credit	172,673	10,200	-	-
DOE Mgmt. Reserve	-	2,004	-	-
Relocation	1,179	-	-	-
Non Project	53	25	-	-
TOTAL TPCE (YOE)	1,884,704	113,864	92,210	92,210

Project Funding Sources	Prior	FY2002	FY 2003	FY 2004
Dept. of Energy YOE (PBS)	1,692,586	91,395	92,210	92,210
Dept. of Energy YOE (OTHER)	1,831	1,725	-	-
Dept. of Energy C/O	8,653	-	-	-
Dept. of Energy C/O(Other)	521	-	-	-
NY State Funding	149,447	9,421	9,846	9,846
Supplem'l 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	103,616	102,056	102,056

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 made during FY04 Budget Formulation
effort currently on-going and contain no Cleanup Reform Account Funds

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.

WEST VALLEY DEMONSTRATION PROJECT FINANCIAL REPORT

FISCAL YEAR 2002

Contract Number DE-AC24-81NE44139

Dollars expressed in thousands

Reporting Period

July 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	20,950	22,889	17,381	5,508
OH-WV-02 Site Transition, Decommission & Proj Comp	3,116	57,100	60,216	41,884	18,333
OH-WV-03 Spent Nuclear Fuel	2,178	6,185	8,363	4,083	4,280
SUBTOTAL WVNS EX05/EX02 CONTRACT	7,233	84,235	91,468	63,348	28,120
OH-WV-SSD Safeguards & Security(FS30)**	3	1,178	1,182	1,179	3
OHIO OFFICE OBLIGATIONS ***	428	1,174	1,603	1039	564
TOTAL OHIO OFFICE	7,664	86,587	94,253	65,565	28,688
OTHER DOE OBLIGATIONS ***	93	0	93	0	93
EX05 PROJECT OBLIGATED FUNDS	7,757	86,587	94,345	65,565	28,780
Unobligated Funds	0	4,808	4,808	0	4,808
TOTAL EX05/EX02/FS30 PROJECT FUNDING FY02	7,757	91,395	99,152	65,565	33,588
Non EX-05/EX02/FS30 Funding ***	1,416	1,712	3,128	511	2,618
TOTAL DOE	9,173	93,107	102,280	66,076	36,206
NYSERDA NE Project (SDA Share)	0	0	0	0	0
NYSERDA NE Proj. (EIS Share) + Fee	61	350	411	250	161
NYSERDA NS Project + Fee	156	9,729	9,885	9,100	785
NYSERDA Credit	0	700	700	583	117
NYSERDA NY Non-Project + Fee	0	25	25	31	(6)
TOTAL WVDP	9,390	103,911	113,301	76,040	37,262

*** 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

Contract Number DE-AC24-81NE44139

Dollars expressed in thousands

Reporting Period

July 2002

DOE Obligations & Expense	Prior Years	FY 2002	BA	FY 2002	
	Uncosted (C/O)				
		BA	to Date	Costs to Date	Uncosted Obligations
DOE Obligation Ohio (SAIC) (PBS OH-WV-02)	84	0	84	84	0
DOE Obligation Ohio (SAIC) (PBS OH-WV-02)	9	0	9	0	9
DOE Obligation Ecol & Envir (PBS OH-WV-02)	0	0	0	(1)	1
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 Batelle (PBS OH-WV-02LT)	246	387	633	466	167
DOE Obligation SAIC (PBS OH-WV-02LT)	0	44	44	0	44
DOE Obligation, SAIC (PBS OH-WV-02LT)	0	400	400	366	34
DOE Obligation (PBS OH-WV-03LT)	0	25	25	3	22
DOE M&E Expense Total (OH)	66	175	241	21	220
DOE OHIO OFFICE OBLIGATIONS	428	1,174	1,603	1,039	564
DOE Obligation Battelle PNNL (RL) (PBS OH-WV-01)	93	0	93	0	93
OTHER DOE OBLIGATIONS	93	0	93	0	93
Non EX 05/EX 02/FS 30 Funding					
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	240	401
Permeable Treatment Wall OH00SS31	123	0	123	40	83
In Situ Characterization OH01WT11	44	0	44	44	0
VEMP Equipment/Encapsulation OH00WT31	156	295	451	150	300
Large Scale D&D OH01DD11	650	572	1,222	236	986
DOE Prog & Prg Mgmt Manual	48	358	406	140	266
Cyber Security	7	0	7	2	4
Headquarters	111	0	111	0	111
Sick Workers Comp Act	28	(13)	15	9	6
National Spent Nuclear Fuel Program	0	85	85	0	85
EIS Credits	0	0	0	63	(63)
Undistributed Costs	0	0	0	(418)	0
Non EX05 Funding Total	1,416	1,712	3,128	511	2,199