

M-32

# memorandum

Ohio Field Office  
West Valley Demonstration Project

DATE: March 28, 2000

SUBJECT: West Valley Demonstration Project (WVDP) January 2000 Progress Report

TO: Mark E. Rawlings  
DOE-HQ, EM-31, 1188/CLOV

Attached is the WVDP Progress Report for January 2000. Any questions regarding the information contained therein can be directed to Lisa M. Maul at (716) 942-2163.

  
Barbara A. Mazurowski, Director  
West Valley Demonstration Project

Attachment: Subject Report

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LMM/brb

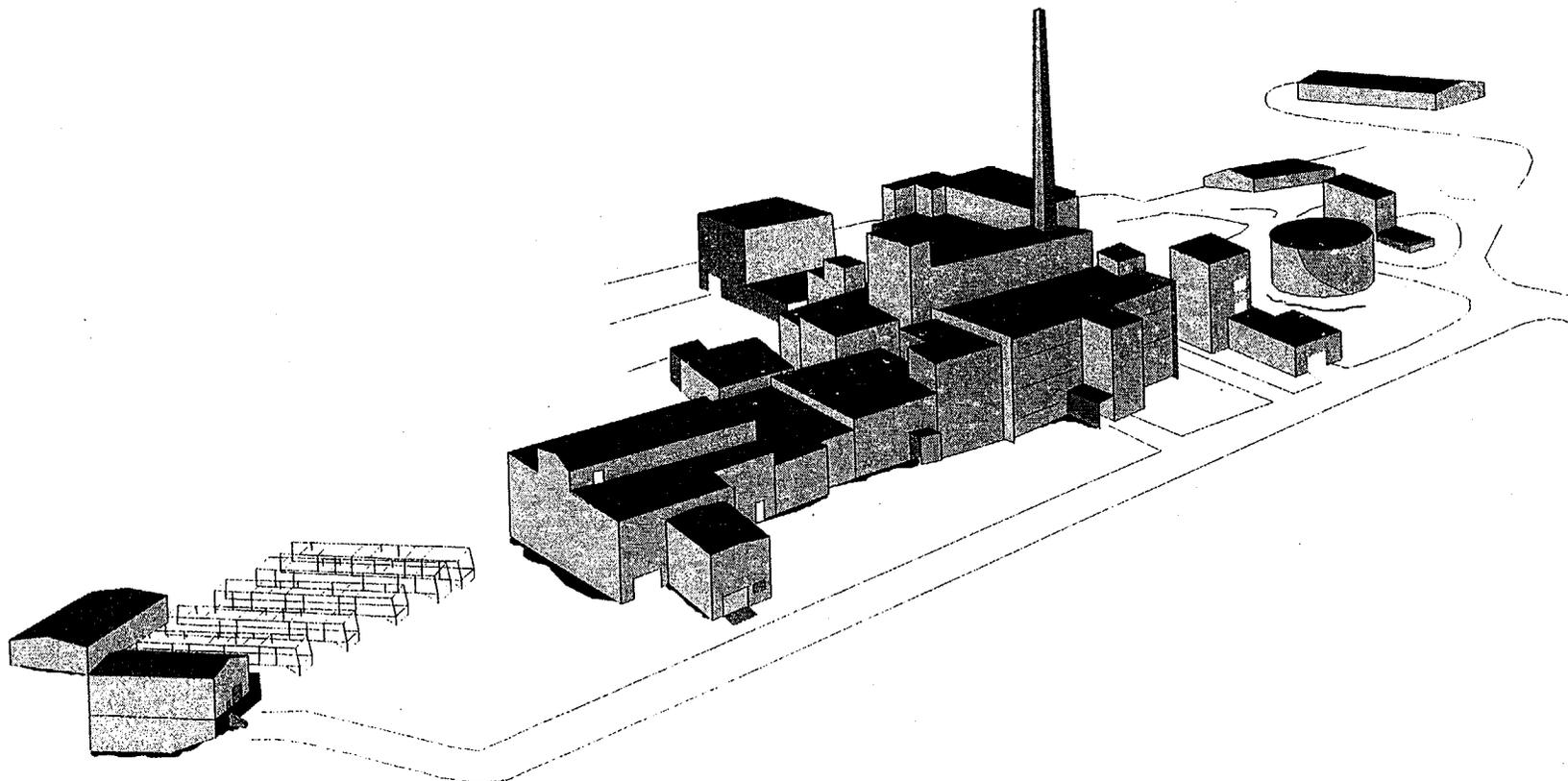
NMSSOI Public



# West Valley Demonstration Project Progress Reports January 2000



## Reissue



**West Valley Demonstration Project  
Progress Report  
January 2000**

**Table of Contents**

**Page**

Contract Information and Objective .....	1
Narrative Highlights and Assessments	
Overall Project Assessment .....	2
PBS01 HLW Vitrification & High Activity Processing .....	5
PBS02 Site Transportation, Decommissioning, & Project Cleanup .....	7
PBS03 Spent Nuclear Fuel .....	9
PBS04 Project Management/Site Support .....	11
Total Project Earned Value Report .....	14
Budget Plan (TPCE) .....	15
WVDP TPCE Reserves Status Summary .....	17
WVDP Financial Report .....	18
WVNS Monthly Earned Value Summary by PBS Report .....	20
WVDP Milestone Listing .....	21
FY2000 Labor Summary (WVNS) .....	27

## PROGRESS REPORT

Report No. 207  
Reporting Period: January 2000

**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, 2001

**CONTRACT OBJECTIVE:** The West Valley Demonstration Project (WVDP) Act (Public Law PL 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 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 (WVNS), 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 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 is currently being treated and the vitrification facility is expected to continue to be utilized through FY 2001 for the treatment of remaining HLW / High Activity Waste (HAW).

A Record of Decision (ROD) is expected to be finalized subsequent to a Final Environmental Impact Statement (FEIS) that will determine final disposition of facilities and closure of the site, thus defining the actions to fulfill the DOE's closure / completion responsibility per the WVDP Act.

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### Overall Assessment

#### Accomplishments/Status

The Vitrification Facility melter is currently idle with the 246th canister, the 5th in FY 2000, under the melter feed pour spout. The average canister fill height for FY2000 is 93.4%, exceeding the Waste Acceptance Criteria (WAC) minimum requirement of 80% for disposal at the Federal Repository.

Eleven contaminated components have been size reduced using Vitrification Expended Materials Processing (VEMP) thus far this fiscal year, which successfully completes a commitment milestone ahead of the September 30, 2000 target date and planning continues for additional size reduction. Vitrification Expended Materials Processing (VEMP) is a Technology Deployment activity partially funded by DOE EM-50.

Progress continues on the design of the Remote Handled Waste Facility (RHWF), which will allow project personnel to safely prepare WVDP highly radioactive waste for shipping and off-site disposal. The Remote-Handled Waste Facility Preliminary Safety Analysis Report (RHWF-PSAR) was issued to DOE/WVDP for their review and comments on January 4, 2000, several days ahead of an already aggressive commitment to transmit a complete PSAR to DOE-OH/WVDP by January 15, 2000. DOE/WVDP review comments are expected in February and will be addressed once received. The Remote Handled Waste Project (RHWP) has developed and implemented a plan to address DOE review comments, which per the current review schedule are expected by February 22, 2000. Approval was received January 21, 2000 to accelerate the design schedule for RHWF to support the potential for an early start of construction.

Characterization and retrieval preparatory efforts continue in the Head End Cells to reduce the risk of radiation exposure and contamination by removing Spent Nuclear Fuel (SNF) debris from the former fuel reprocessing cells. Hot Cell Services, Inc. completed the removal of two pieces of shield glass from the General Purpose Cell B shield window and polished the cold side of the third piece. The cold side cover glass was reinstalled and the window refilled with oil. This completes all planned Head-End Cell (HEC) shield window refurbishments on January 18, 2000, ahead of the January 31, 2000 commitment.

Han-Tek, Inc. personnel completed an Occupational Safety and Health Administration (OSHA) type inspection of the FRS 100 ton crane on January 18, 2000. This crane is required to support spent fuel handling and shipments to INEEL. A work order to load test the crane to 125 tons is in the approval process. Equipment needed for the load test (weights, weight sled, slings, etc.) is being identified and staged. The load test is expected to be completed in late February. Spent Nuclear Fuel Handler Certification training began on January 24, 2000. The training participants include four operators, three quality assurance engineers, and a radiation protection technician. The training is scheduled to last five weeks.

To date, 17 intermodals and 12 boxes equaling 8058 ft<sup>3</sup> (228m<sup>3</sup>) of radioactive Low Level Waste (LLW) have been shipped off-site for disposal. An additional 2973 ft<sup>3</sup> (84 m<sup>3</sup>) of waste has been sorted and staged in preparation for shipment off-site and disposal. The commitment for LLW shipments in FY2000 is 30,000 ft<sup>3</sup> (850 m<sup>3</sup>).

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### Overall Assessment

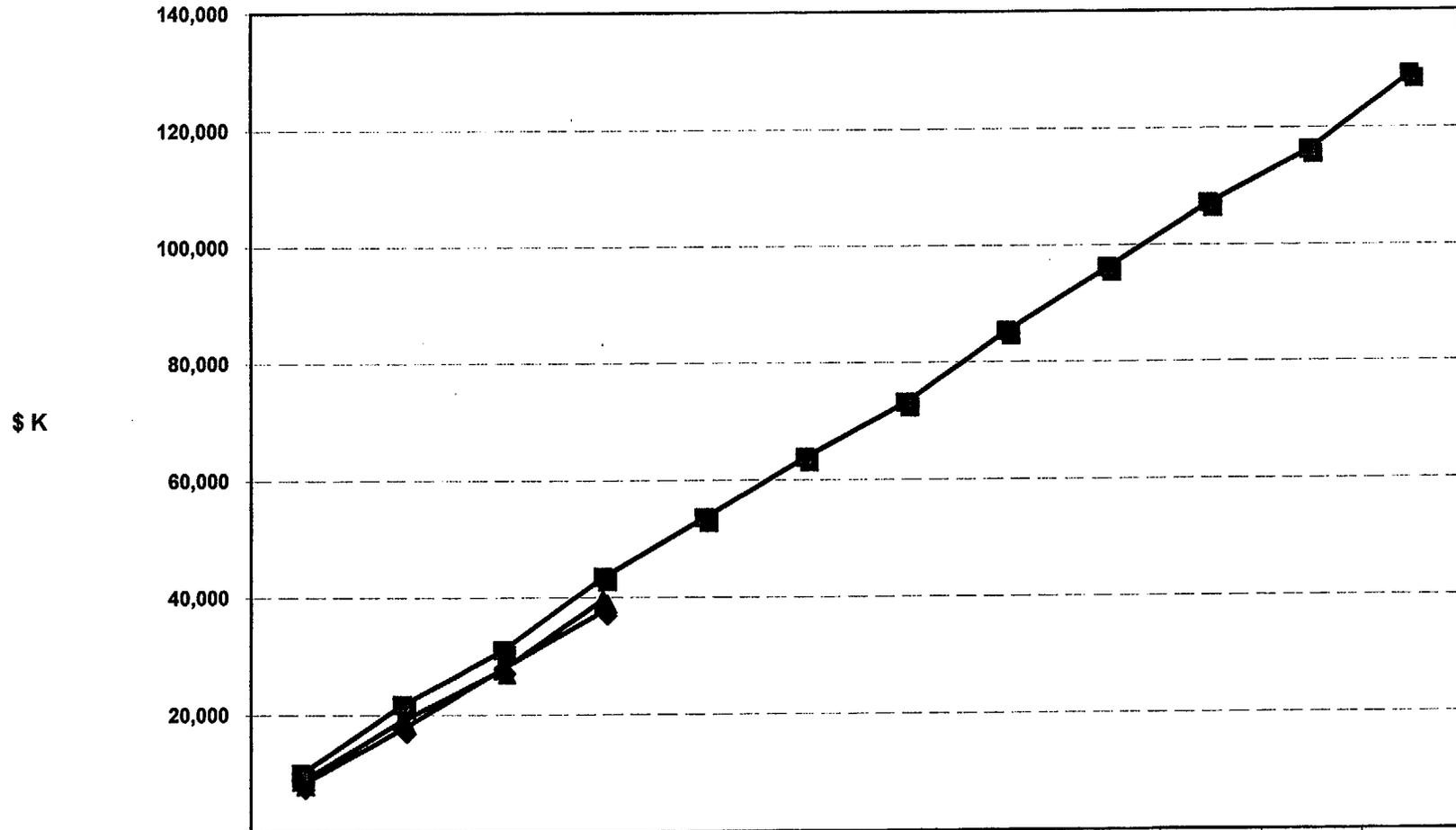
#### Assessment/Actions

The Project activities experienced no appreciable cost variance through January.

The Project experienced a \$3.9 million cumulative negative schedule variance through January. This is primarily due to less than planned progress in construction of the Process Mechanical Cell Room (PMCR) Enclosure in support of the Head End Cell Project, development of the plan and conceptual design for size reduction/dismantlement of the Vitrification Facility and cask licensing recertification for full load shipments of Spent Nuclear Fuel (SNF). These variances are calculated against a working schedule and do not jeopardize overall WVDP Commitments.

Performance to date for FY 2000 is 36% of work planned, 30% of work performed and 29% costed.

Total Project



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
■ PROJECT BUDGET	9,980	21,663	30,949	43,465	53,517	63,828	73,152	85,224	96,143	107,207	116,267	128,978
▲ PROJECT PERFORMANCE	8,662	19,001	27,660	39,634								
◆ PROJECT ACTUAL	8,046	17,621	27,854	37,680								
DOE PBS BUDGET	9,814	21,156	30,335	42,590	52,460	62,564	71,783	83,464	94,177	104,965	113,956	126,275
DOE PBS PERFORMANCE	8,416	18,710	27,182	38,723	-	-	-	-	-	-	-	-
DOE PBS ACTUAL	9,471	19,459	30,109	39,351	-	-	-	-	-	-	-	-

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

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

#### Accomplishments/Status

The Vitrification Facility melter is currently idle with the 246th canister, the 5th in FY 2000, under the melter feed pour spout. The average canister fill height for FY2000 is 93.4%, exceeding the Waste Acceptance Criteria (WAC) minimum requirement of 80% for disposal at the Federal Repository.

Progress continues toward high-level waste (HLW) tank heel removal. During January's melter down-time, Vitrification Operations completed size reduction of a melter level insert and the maintenance station measuring gauge; decontamination of Canister WV373 and WV374; shard sampling, welding, fill-height measurement; load-in of three empty Vitrification Expended Material (VEM) waste cans to the In-Cell; the repackaging of VEM waste can 4b; replacement of the In-Cell Closed-Circuit Television System (CCTV) Camera 105 and the weld station inspection camera; successful testing of two Vitrification Facility HEPA filters 67-T-001A and -002A, Module C; a nitric acid flush of the CFMT sample pump; troubleshooting of the ammonia delivery system, and organization of the Vitrification In-Cell.

Advanced HLW tank waste retrieval system (AWRS) components are at Specialty Maintenance and Construction, Inc. (SMCI) in Lakeland, Florida. Full-scale, final acceptance testing of the AWRS mast-tool-delivery assembly was successfully completed at SMCI. WVNS engineering and Quality Assurance witnessed the testing. Also while at SMCI, WVNS engineering witnessed successful demonstrations of the installation and operation of the mechanical arm components, steam generator start-up, and operation of the NUMET ENGINEERING LTD. (NEL) arm steam jet.

Eleven contaminated components have been size reduced using Vitrification Expended Materials Processing (VEMP) thus far this fiscal year, which successfully completes a commitment milestone ahead of the September 30, 2000 target date and planning continues for additional size reduction. Vitrification Expended Materials Processing (VEMP) is a Technology Deployment activity partially funded by DOE EM-50.

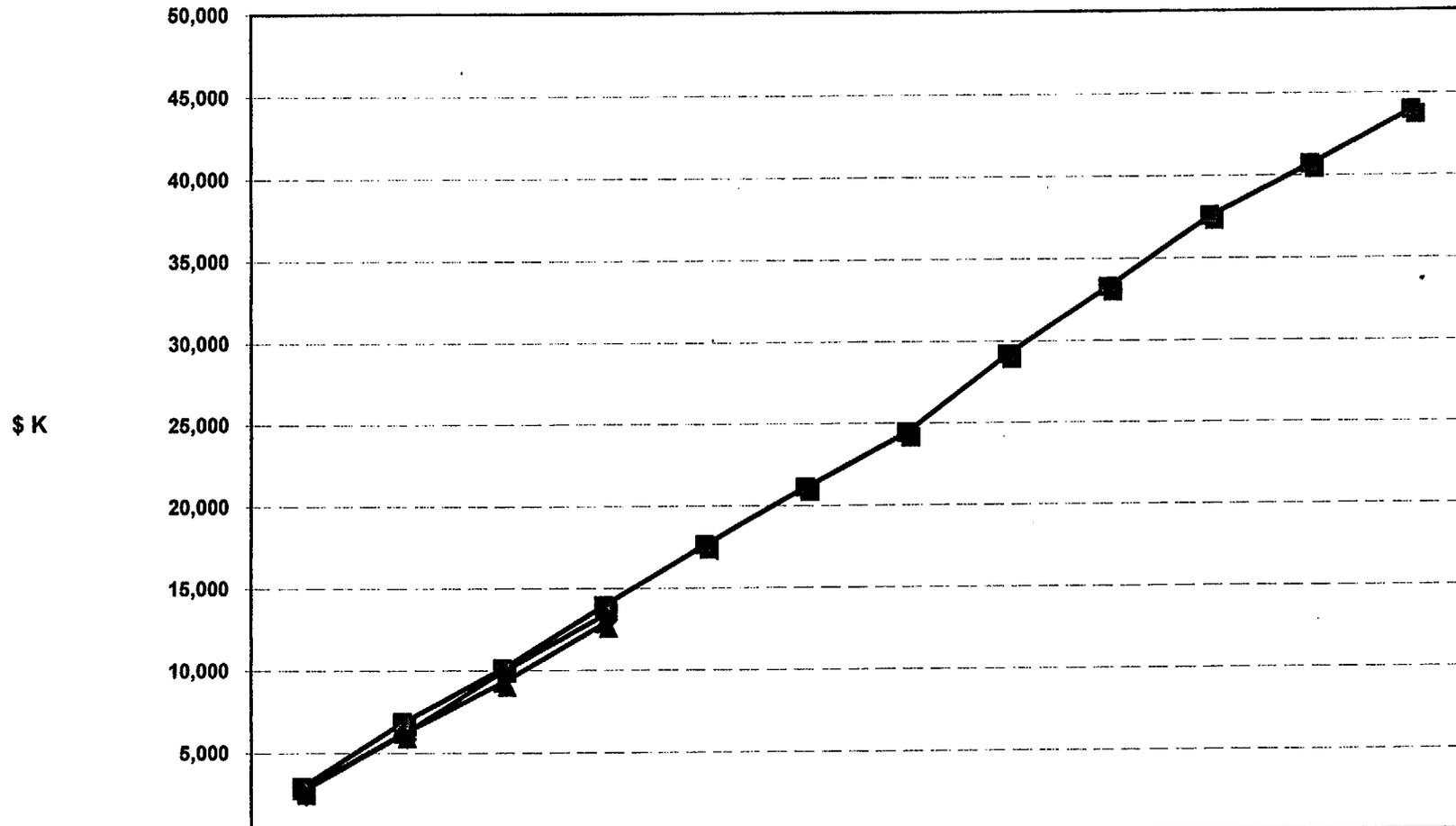
High Level Waste (HLW) transfers from tank 8D-2 to Concentrator Feed Makeup Tank (CFMT) continue. Mid-batch calculations indicate an estimated 393,000 curies of Cesium and Strontium transferred and 1795 curies of alpha transuranics, Plutonium-241 and Technetium-99 transferred. Final and more accurate estimates will be available after all batch transfers are complete. The commitment for FY2000 is to transfer up to 2200 curies of alpha transuranics, Plutonium-241 and Technetium-99 to the Vitrification Facility for processing.

#### Assessment/Actions

HLW Vitrification & HAW Processing incurred no appreciable cost or schedule variance through January.

Performance to date for FY 2000 is 32% of work planned, 29% of work performed and 30% costed.

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



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
■ PROJECT BUDGET	2,928	6,845	10,112	13,934	17,635	21,136	24,401	29,198	33,279	37,570	40,667	43,947
▲ PROJECT PERFORMANCE	2,744	6,148	9,267	12,840								
◆ PROJECT ACTUAL	2,666	6,128	9,935	13,350								
DOE PBS BUDGET	2,884	6,659	9,850	13,505	17,051	20,418	23,572	28,106	31,994	36,071	39,075	42,243
DOE PBS PERFORMANCE	2,701	6,042	9,055	12,130	-	-	-	-	-	-	-	-
DOE PBS ACTUAL	3,497	6,888	10,665	13,570	-	-	-	-	-	-	-	-

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### PBS OH-WV-02: Site Transitioning, Decommissioning & Project Completion

#### Accomplishments/Status

Progress continues on the design of the Remote Handled Waste Facility (RHWF), which will allow project personnel to safely prepare WVDP highly radioactive waste for shipping and off-site disposal. The Remote-Handled Waste Facility Preliminary Safety Analysis Report (RHWF-PSAR) was issued to DOE/WVDP for their review and comments on January 4, 2000, several days ahead of an already aggressive commitment to transmit a complete PSAR to DOE-OH/WVDP by January 15, 2000. DOE/WVDP review comments are expected in February and will be addressed once received. The Remote Handled Waste Project (RHWP) has developed and implemented a plan to address DOE review comments, which per the current review schedule are expected by February 22, 2000. Approval was received January 21, 2000 to accelerate the design schedule for RHWF to support the potential for an early start of construction.

In support of the Environmental Impact Statement Site Closure Alternative Analysis, Science Applications International Corporation (SAIC) has prepared the erosion model responses to both Nuclear Regulatory Commission (NRC) and New York State Department of Environmental Conservation (NYSDEC) comments that have been discussed previously during conference calls with both agencies. SAIC is moving forward with the erosion model analysis discussed with NRC and NYSDEC, and is planning to share results with both agencies after DOE and NYSERDA reviews are completed. At the present time SAIC is calibrating the model in the manner agreed to by NRC and NYSDEC as outlined in the December 29, 1999, response to both agencies. WVNS is continuing to support the DOE-WVDP project office in developing comments to the Draft NRC Policy Statement for Decommissioning Criteria for the WVDP. NRC has extended the public comment period to April 1, 2000.

Characterization and retrieval preparatory efforts continue in the Head End Cells to reduce the risk of radiation exposure and contamination by removing Spent Nuclear Fuel (SNF) debris from the former fuel reprocessing cells. Hot Cell Services, Inc. completed the removal of two pieces of shield glass from the General Purpose Cell B shield window and polished the cold side of the third piece. The cold side cover glass was reinstalled and the window refilled with oil. This completes all planned Head-End Cell (HEC) shield window refurbishments on January 18, 2000, ahead of the January 31, 2000 commitment.

To date, 17 intermodals and 12 boxes equaling 8058 ft<sup>3</sup> (228m<sup>3</sup>) of radioactive Low Level Waste (LLW) have been shipped off-site for disposal. An additional 2973 ft<sup>3</sup> (84 m<sup>3</sup>) of waste has been sorted and staged in preparation for shipment off-site and disposal. The commitment for LLW shipments in FY2000 is 30,000 ft<sup>3</sup> (850 m<sup>3</sup>).

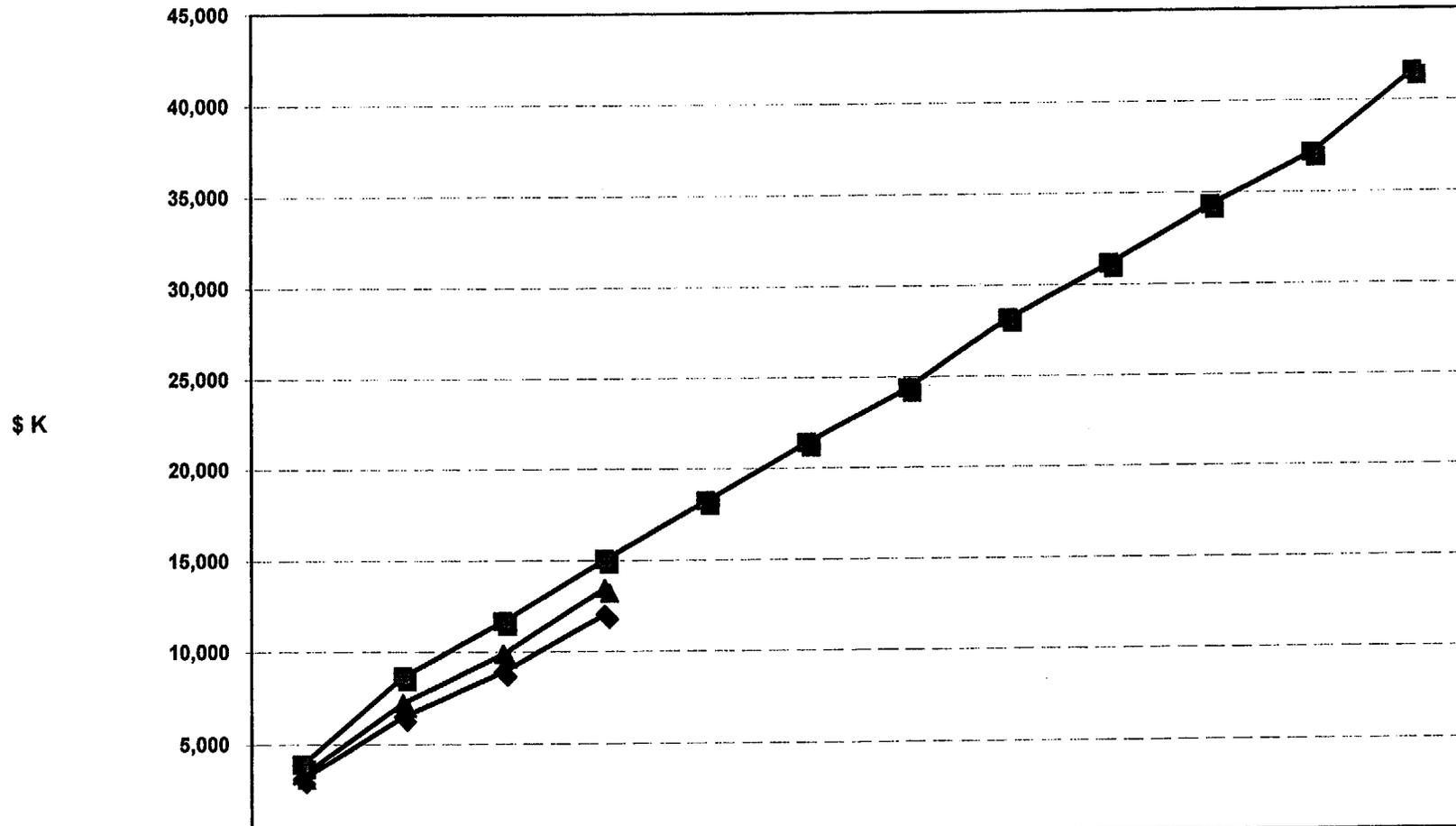
#### Assessment/Actions

The negative schedule variance was reduced by \$0.19 million in January, resulting in a cumulative schedule variance of negative \$1.61 million. This remains due primarily to less than planned progress in construction of the Process Mechanical Cell Room (PMCR) Enclosure, in support of the Head End Cell Project, and development of the plan and conceptual design for size reduction/dismantlement of the Vitrification Facility. The overall Head End Cell Project schedule remains on target.

The positive cost variance increased by \$0.47 million in January, resulting in a cumulative cost variance of positive \$1.40 million. This remains due primarily to less labor required than planned to perform Waste Management, Vitrification Expended Materials Processing, Facilities Stabilization and Site Decommissioning project activities.

Performance to date for FY 2000 is 36% of work planned, 32% of work performed and 29% costed.

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



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
■ PROJECT BUDGET	3,890	8,656	11,638	15,030	18,200	21,391	24,386	28,198	31,138	34,334	37,136	41,568
▲ PROJECT PERFORMANCE	3,324	7,227	9,875	13,455								
◆ PROJECT ACTUAL	3,098	6,476	8,901	12,012								
DOE PBS BUDGET	3,774	8,336	11,294	14,619	17,746	20,891	23,860	27,564	30,483	33,633	36,427	40,689
DOE PBS PERFORMANCE	3,145	7,017	9,659	13,160	-	-	-	-	-	-	-	-
DOE PBS ACTUAL	3,185	6,898	9,559	12,663	-	-	-	-	-	-	-	-

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### PBS OH-WV-03: Spent Nuclear Fuel

#### Accomplishments/Status

Transnuclear, Inc. (TN) continues to prepare cask Safety Analysis Report (SAR) revisions for full load shipments of SNF for submittal to the NRC. DOE has notified the NRC that revised SARs for full loads for both casks will not be submitted in March as planned, and the earliest date for submittal of revised SARs would be mid-April. Submittal of the revised SARs prior to completion of the Borated Stainless Steel (BSS) materials property testing will be discussed with the NRC at the February 14 meeting.

A conference call was held January 27, 2000 among DOE, WVNS, Bechtel, Babcock and Wilcox Idaho (BBWI), TN and Structural Integrity Associates (SIA) to discuss BSS material properties testing to supplement information obtained from a literature search. SIA reported bend bar testing, Charpy type impact fracture toughness tests, and subsequent micro structure analysis would be required. SIA will complete the design of a fracture toughness program by February 4. TN has drafted a procedure for removal of basket plates for testing and will transmit it by February 4. TN is awaiting response to the Request for Quotes for replacements (both Stainless Steel (SS) and BSS) for the plates to be removed for materials testing. TN submitted a schedule for the material properties test program which shows completion of testing in mid April and completion of the report in mid May. TN also submitted draft schedules for replacement of the BSS baskets with regular SS.

Fabrication of the new TN-Robert E. Ginna (REG) cask transport frame is nearing completion. Quality Assurance will perform final inspection prior to painting on February 1. The Approval Request (AR) transmitting the procedure for final fit-up of the front cask trunnions, which will be done on site using the TN-REG cask, is being reviewed. Delivery is expected in February.

Han-Tek, Inc. personnel completed an Occupational Safety and Health Administration (OSHA) type inspection of the FRS 100 ton crane on January 18, 2000. A work order to load test the crane to 125 tons is in the approval process. Equipment needed for the load test (weights, weight sled, slings, etc.) is being identified and staged. The load test is expected to be completed in late February. Spent Nuclear Fuel Handler certification training began on January 24, 2000. The training participants include four operators, three quality assurance engineers, and a radiation protection technician. The training is scheduled to last five weeks.

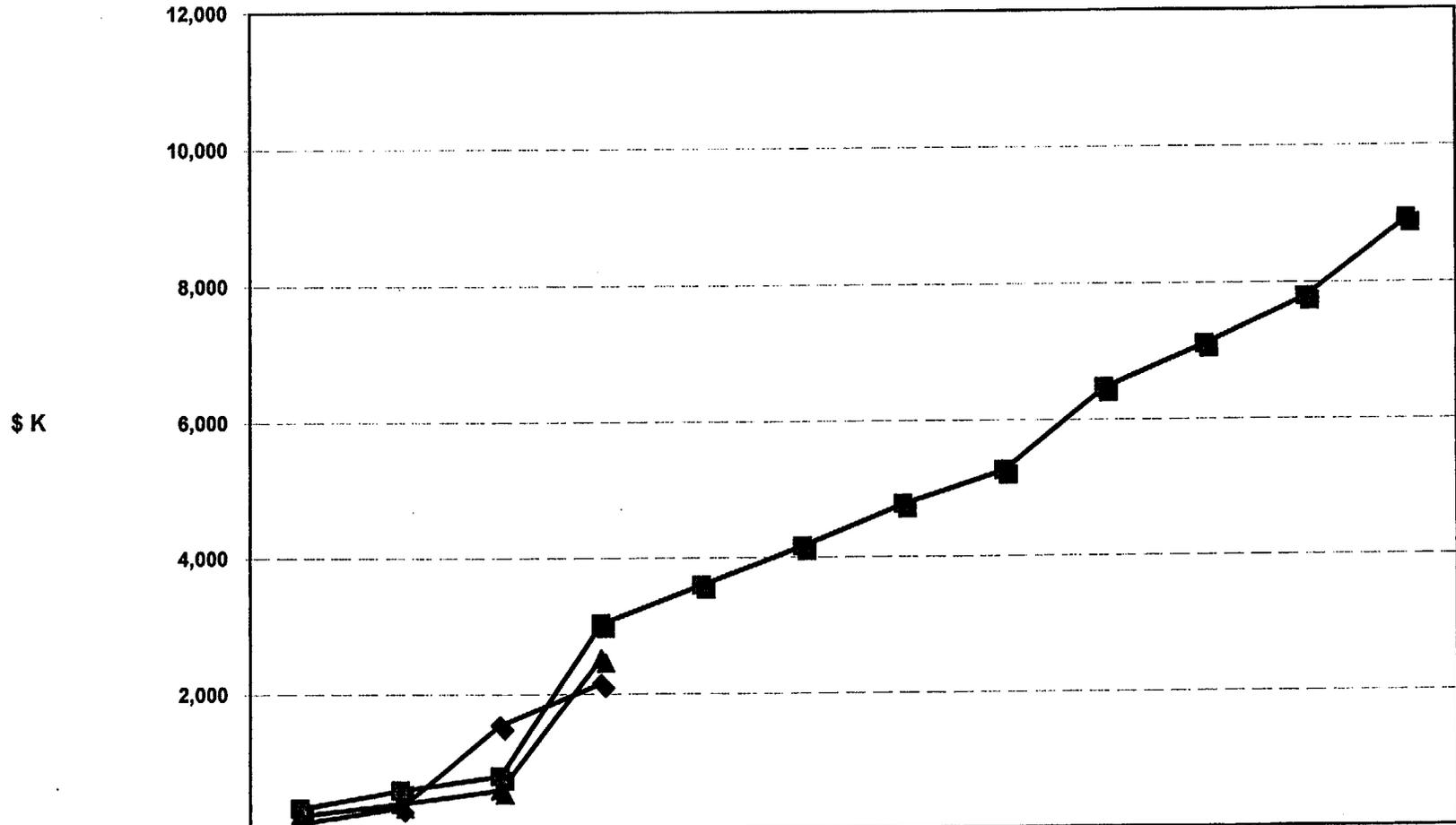
#### Assessment/Actions

The negative schedule variance increased by \$0.30 million, resulting in a cumulative schedule variance of negative \$0.51 million. This is primarily due to the fact that BBWI project support is behind the rebaselined schedule due to deferment of work related to half-load shipments.

The cumulative positive cost variance of \$0.37 million is due to less than planned cost to date for shipping preparation materials and overall Spent Fuel Shipping Project labor.

Performance to date for FY 2000 is 34% of work planned, 28% of work performed and 24% costed.

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



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
■ PROJECT BUDGET	316	584	792	3,032	3,599	4,162	4,775	5,265	6,464	7,098	7,796	8,925
▲ PROJECT PERFORMANCE	214	385	585	2,525								
◆ PROJECT ACTUAL	103	332	1,536	2,153								
DOE PBS BUDGET	384	721	998	3,306	3,941	4,573	5,255	5,813	7,081	7,783	8,550	9,747
DOE PBS PERFORMANCE	290	532	748	2,880	-	-	-	-	-	-	-	-
DOE PBS ACTUAL	169	477	1,803	2,494	-	-	-	-	-	-	-	-

## **NARRATIVE HIGHLIGHTS AND ASSESSMENT**

### **PBS OH-WV-04: Project Management / Site Support**

#### **Accomplishments/Status**

Logistics Management Institute (LMI) representatives were on site to present their preliminary analysis resulting from their November 1999 visit to collect information on functional support costs. Additional input, clarification and comments provided by WVNS will be utilized by LMI to prepare their preliminary Benchmarking Report due to be issued in February.

The FY2000 Business Management Oversight Program (BMOP) performance period has been established as December 1, 1999, through September 30, 2000. The functional areas to be assessed are: Printing and Duplication Services; Financial Management; Information Management; and the Make-or-Buy Plan. In addition, the Balanced Score Card (BSC) will be included for Property Management and Procurement. The Performance Plan was revised per DOE comments and submitted to DOE on January 7, 2000.

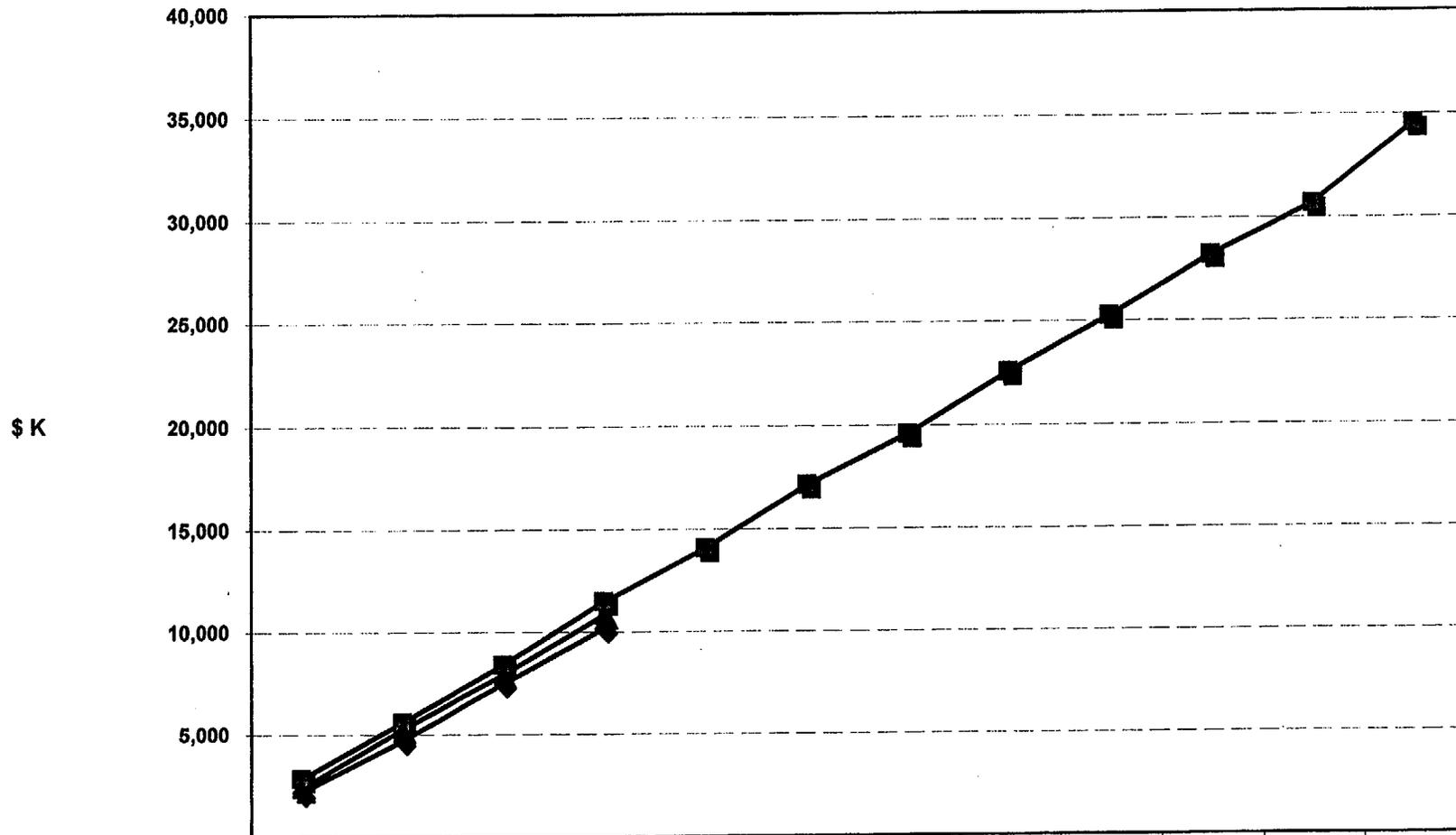
There were no reportable clothing, skin, nasal, or internal contaminations (per DOE Order 232.1) for WVDP radiological workers in January 1999. There were two OSHA-recordable incidents during January 1999, making the WVDP's calendar year-to-date Total Recordable Case Rate (TRC) 2.22.

#### **Assessment/Actions**

Project Management/Site Support incurred no appreciable schedule or cost variance for January.

Performance to date for FY 2000 is 33% of work planned, 31% of work performed and 29% costed.

PBS 4 - (OH-WV-04) PROJECT MANAGEMENT/SITE SUPPORT



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
■ PROJECT BUDGET	2,846	5,578	8,406	11,470	14,084	17,139	19,590	22,562	25,262	28,205	30,669	34,539
▲ PROJECT PERFORMANCE	2,381	5,240	7,934	10,814								
◆ PROJECT ACTUAL	2,180	4,686	7,482	10,164								
DOE PBS BUDGET	2,771	5,439	8,194	11,160	13,722	16,681	19,096	21,980	24,619	27,477	29,904	33,596
DOE PBS PERFORMANCE	2,280	5,119	7,720	10,553	-	-	-	-	-	-	-	-
DOE PBS ACTUAL	2,620	5,196	8,082	10,624	-	-	-	-	-	-	-	-

WVNS Monthly Progress Report - January 2000  
**ADMINISTRATIVE**

Project personnel as of January 31, 2000:

	<u>Mgt</u>	<u>Prof</u>	<u>NE</u>	<u>Hourly</u>	<u>Total</u>
WVNS On Board <sup>1</sup>	102	342	193	171	808
Contract Guard	0	0	0	26	26
Dames and Moore <sup>2</sup>	8	32	0	0	40
<b>Project Total:</b>	<u>110</u>	<u>374</u>	<u>193</u>	<u>197</u>	<u>874</u>
<b>EEO Statistics:</b>					
	<u>Mgt</u>	<u>Prof</u>	<u>NE</u>	<u>Hourly</u>	<u>Total</u>
Minority (Included in WVNS Total)	10	43	11	13	77
Female (Included in WVNS Total)	15	74	123	24	236

<sup>1</sup> On Board total excludes 18 casuals.

<sup>2</sup> Includes Dames and Moore located on WVDP and AOC premises.

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

**Accomplishments/Status**

**New York State Sales and Use Tax**

The Respondent, the Commissioner of Taxation and Finance of the State of New York, filed its brief Pertaining to the New York State Sales and Use Tax with the Appellate Division on December 27, 1999. WVNS submitted a reply brief with the Appellate Division on January 6, 2000. Oral Argument is scheduled for February 14, 2000.

TOTAL PROJECT EARNED VALUE REPORT

January FY2000

ITEM	CURRENT PERIOD					FISCAL YEAR-TO-DATE					FY 2000 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	3,821	3,573	3,415	(248)	158	13,934	12,825	13,350	(1,109)	(525)	43,947
PBS 02 - SITE TRANSITION, DECOMMISSIONING & PROJECT COMPLETION	3,391	3,581	3,112	190	469	15,030	13,415	12,012	(1,615)	1,403	41,568
PBS 03 - SPENT NUCLEAR FUEL	2,240	1,940	617	(300)	1,323	3,032	2,525	2,153	(507)	372	8,925
PBS 04 - PROJECT MANAGEMENT & SITE SUPPORT	3,063	2,880	2,682	(183)	198	11,470	10,814	10,164	(656)	650	34,539
PMB	12,515	11,974	9,826	(541)	2,148	43,466	39,579	37,679	(3,887)	1,900	128,979
WVNS MR	-	-	-	-	-	-	-	-	-	-	953
<b>TOTAL WVNS</b>	<b>12,515</b>	<b>11,974</b>	<b>9,826</b>	<b>(541)</b>	<b>2,148</b>	<b>43,466</b>	<b>39,579</b>	<b>37,679</b>	<b>(3,887)</b>	<b>1,900</b>	<b>129,932</b>
Deobligations/Expense	157	53	53	(104)	-	629	188	188	(441)	-	1,886
Taxes	-	-	-	-	-	-	-	-	-	-	1,500
Fee/Credit/Other	958	1,086	1,086	128	-	3,830	4,156	4,156	326	-	11,491
DOE MR	-	-	-	-	-	-	-	-	-	-	68
Non Project s/t	2	2	2	-	-	8	8	8	-	-	25
	<b>1,117</b>	<b>1,141</b>	<b>1,141</b>	<b>24</b>	<b>-</b>	<b>4,467</b>	<b>4,352</b>	<b>4,352</b>	<b>(115)</b>	<b>-</b>	<b>14,970</b>
<b>FY 2000 TOTAL WVDP</b>	<b>13,632</b>	<b>13,115</b>	<b>10,967</b>	<b>(517)</b>	<b>2,148</b>	<b>47,933</b>	<b>43,931</b>	<b>42,031</b>	<b>(4,002)</b>	<b>1,900</b>	<b>144,902</b>

Notes:  
All entries in thousands of dollars - sum of the parts may vary from total due to rounding.

BUDGET PLAN - TOTAL PROJECT COST ESTIMATE (TPCE)

January FY 2000

Project Budget	Prior	FY2000	FY 2001-2015	Total
PBS 1 High-Level Waste Processing	-	43,947	81,066	125,013
PBS 2 Transition & Project Completion	-	41,568	1,186,565	1,228,133
PBS 3 Spent Nuclear Fuel	-	8,925	10,477	19,402
PBS 4 Project Management & Support	-	34,539	455,152	489,691
Prior - WBS	1,419,616			1,419,616
Escalation	-	-	349,888	349,888
PMB Line	1,419,616	128,979	2,083,148	3,631,743
WVNS Mgmt. Reserve	-	953	-	953
Contract Budget Base	1,419,616	129,932	2,083,148	3,632,696
Deobs to Other Sites/Expense	66,383	1,886	-	68,269
IWOs to Other Sites	1,763	-	-	1,763
Fee/Credit	150,572	11,491	-	162,063
DOE Mgmt. Reserve	-	68	-	68
Relocation	1,179	-	-	1,179
Taxes	-	1,500	-	1,500
Non Project	-	25	-	25
<b>TOTAL TPCE (YOE)</b>	<b>1,639,513</b>	<b>144,902</b>	<b>2,083,148</b>	<b>3,867,538</b>

Project Funding Sources	Prior	FY2000	FY 2001-2015	Total
Dept. of Energy YOE (PBS 1-4)	1,470,884 <sup>1</sup>	107,353	1,875,943	3,454,180
Dept. of Energy YOE (OTHER)	1,306	1,650	-	2,956
Dept. of Energy C/O	15,543 <sup>2</sup>	-	-	15,543
Dept. of Energy C/O(Other)	204	-	-	204
N.Y. State Funding	129,652	10,326	207,205	347,183
Supplem'l NYS (17% EIS)	4,653	412	-	5,065
Uncosted NYS Funding	353 <sup>3</sup>	-	-	353
NYS Credit/Serv	33,018	1,241	-	34,259
Non Project	-	25	-	25
<b>TOTAL PROJECT (YOE)</b>	<b>1,655,613</b>	<b>121,007</b>	<b>2,083,148</b>	<b>3,859,743</b>

Assumptions:

Project Budget/Funding is comprised of DOE and NY components  
 Outyear project funding profile based on Paths To Closure Document (May 17, 1999)

<sup>1</sup> Includes 20.6M Fuel <sup>2</sup> Includes 1.3M Fuel <sup>3</sup> 1.3M Adj For FY99 Overpayment

Notes:

All entries in thousands of dollars - sum of the parts may vary from total due to rounding.

TOTAL OUTYEAR BUDGET AND FUNDING

January FY2000

<b>Project Budget</b>	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
PBS 1 High-Level Waste Processing	47,889	51,889	33,302	-	-	-	-	-
PBS 2 Transition & Project Completion	32,836	35,994	62,700	98,110	101,371	103,888	107,200	106,422
PBS 3 Spent Nuclear Fuel	4,900	6,400	2,400	1,100	600	600	-	-
PBS 4 Project Management & Support	33,111	33,000	33,433	34,888	35,633	36,340	37,140	37,918
<b>TOTAL BUDGET (YOE \$K)</b>	<b>118,737</b>	<b>127,283</b>	<b>131,834</b>	<b>134,098</b>	<b>137,605</b>	<b>140,828</b>	<b>144,340</b>	<b>144,340</b>
<b>Project Funding</b>	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
Dept. of Energy YOE (PBS 1-4)	107,353	115,195	118,891	120,799	123,905	126,806	129,906	129,906
N.Y. State Funding	11,384	12,088	12,943	13,300	13,700	14,023	14,434	14,434
<b>TOTAL PROJECT (YOE \$K)</b>	<b>118,737</b>	<b>127,283</b>	<b>131,834</b>	<b>134,099</b>	<b>137,605</b>	<b>140,829</b>	<b>144,340</b>	<b>144,340</b>

<b>Project Budget</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
PBS 1 High-Level Waste Processing	-	-	-	-	-	-	-	-
PBS 2 Transition & Project Completion	105,623	104,811	103,978	103,134	102,266	108,673	101,800	93,823
PBS 3 Spent Nuclear Fuel	-	-	-	-	-	-	-	-
PBS 4 Project Management & Support	38,717	39,528	40,362	41,206	42,074	35,667	31,867	29,289
<b>TOTAL BUDGET (YOE \$K)</b>	<b>144,340</b>	<b>144,340</b>	<b>144,339</b>	<b>144,340</b>	<b>144,340</b>	<b>144,340</b>	<b>133,667</b>	<b>123,112</b>
<b>Project Funding</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
Dept. of Energy YOE (PBS 1-4)	129,906	129,906	129,906	129,906	129,906	129,906	120,300	110,800
N.Y. State Funding	14,434	14,434	14,434	14,434	14,434	14,434	13,367	12,311
<b>TOTAL PROJECT (YOE \$K)</b>	<b>144,340</b>	<b>144,340</b>	<b>144,339</b>	<b>144,340</b>	<b>144,340</b>	<b>144,340</b>	<b>133,667</b>	<b>123,112</b>

**Assumptions:**

Project Budget is comprised of DOE and NY components

Outyear project funding profile based on Paths To Closure Document (May 17, 1999)

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



**WEST VALLEY DEMONSTRATION PROJECT FINANCIAL REPORT  
FISCAL YEAR 2000**

Contract Number: DE-AC24-81NE44139

Dollars expressed in thousands.

Reporting Period:  
January 1999

WBS Description	Prior Years Uncosted (C/O)	FY 2000 Funding to Date	Obligations Available to Date	FY 2000 Planned Budget	FY 2000 Costs to Date	Outstanding Commitments to Date	Budget Planned to Date
OH-WV-01 HLW Vit & HAW Processing	1,024	40,875	41,899	41,782	13,541	28,358	13,927
OH-WV-02 Site Transition, Decommission & Proj C	10,688	28,027	38,715	39,579	12,645	26,070	13,193
OH-WV-03 Spent Nuclear Fuel	1,243	4,647	5,890	9,629	2,369	3,521	3,210
OH-WV-04 Project Management / Site Support	909	28,261	29,170	33,466	10,607	18,563	11,155
Contingencies , Reserves & Taxes	0	5,330	5,330	2,521	0	0	0
<b>SUBTOTAL DOE EX05 CONTRACT</b>	<b>13,864</b>	<b>107,140</b>	<b>121,004</b>	<b>126,977</b>	<b>39,162</b>	<b>76,512</b>	<b>41,485</b>
Other Ohio Office Obligations	177	0	177	177	33	156	59
<b>TOTAL OHIO OFFICE</b>	<b>14,041</b>	<b>107,140</b>	<b>121,181</b>	<b>127,154</b>	<b>39,195</b>	<b>76,669</b>	<b>41,544</b>
<b>TOTAL DOE OBLIGATIONS ***</b>	<b>1,539</b>	<b>170</b>	<b>1,709</b>	<b>1,709</b>	<b>156</b>	<b>1,553</b>	<b>570</b>
<b>EX05 PROJECT OBLIGATED FUNDS</b>	<b>15,580</b>	<b>107,310</b>	<b>122,890</b>	<b>128,863</b>	<b>39,351</b>	<b>78,221</b>	<b>42,114</b>
Unobligated Funds:	0	43	43	0	0	0	0
<b>TOTAL EX05 PROJECT FUNDING FY99:</b>	<b>15,580</b>	<b>107,353</b>	<b>122,933</b>	<b>128,863</b>	<b>39,351</b>	<b>78,221</b>	<b>42,114</b>
Non EX-05 Funding	93	1,650	1,743	1,743	2,228	1,312	581
<b>TOTAL DOE</b>	<b>15,673</b>	<b>109,003</b>	<b>124,676</b>	<b>130,606</b>	<b>41,579</b>	<b>79,533</b>	<b>42,695</b>
NYSERDA NE Project (SDA Share)	0	0	0	0	0	0	0
NYSERDA NE Proj. (EIS Share) + Fee	0	412	412	412	130	282	137
NYSERDA NS Project + Fee	353	10,326	10,679	12,618	1,700	8,979	4,206
NYSERDA Credit	0	1,241	1,241	1,241	412	829	414
NYSERDA NY Non-Project + Fee	0	25	25	25	9	0	8
<b>TOTAL WVDP:</b>	<b>16,026</b>	<b>121,007</b>	<b>137,033</b>	<b>144,902</b>	<b>43,829</b>	<b>89,623</b>	<b>47,460</b>

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

**WEST VALLEY DEMONSTRATION PROJECT FINANCIAL REPORT**  
**FISCAL YEAR 2000**  
**DOE Obligations and Non EX05 Funding Breakout**

Reporting Period:  
January 1999

Contract Number: DE-AC24-81NE44139

Dollars expressed in thousands.

	Prior Years Uncosted (C/O)	FY 2000 Funding to Date	Obligations Available to Date	FY 2000 Planned Budget	FY 2000 Costs to Date	Outstanding Commitments to Date	Budget Planned to Date
<b>DOE Obligations</b>							
DOE Obligation: Battelle PNNL (RL)	93	0	93	93	0	93	23
DOE Obligation: Ohio (SAIC)	1,229	0	1,229	1,229	111	1,118	307
DOE Obligation: Rocky Flats (SAIC Non-EIS)	11	0	11	11	0	11	3
DOE Obligation: Envirocare	89	170	259	259	(69)	329	0
DOE Obligation: BBWI	116	0	116	116	114	2	29
<b>TOTAL DOE OBLIGATIONS</b>	<b>1,539</b>	<b>170</b>	<b>1,709</b>	<b>1,709</b>	<b>156</b>	<b>1,553</b>	<b>362</b>
<b>Non EX 05 Funding</b>							
SR work Authorization	10	0	10	10	0	10	3
Pollution Prevention	6	0	6	6	0	6	2
Y2K Compliance	70	0	70	70	0	70	18
ASTD Projects: VEMP	7	1,650	1,657	1,657	431	1,226	414
Undistributed Costs	0	0	0	0	1,797	0	0
<b>Non EX05 Funding Total</b>	<b>93</b>	<b>1,650</b>	<b>1,743</b>	<b>1,743</b>	<b>2,228</b>	<b>1,312</b>	<b>436</b>

West Valley Demonstration Project  
 Monthly Earned Value Summary at EX05 PBS Level  
 Funding by Approp/Ops Office/B&R Code/Contractor  
 Fiscal Year 2000

Reporting Period:  
January 2000

PBS #	Description	Current Period					Total BA	Cumulative to Date				
		BCWS	BCWP	ACWP	Schedule Variance	Cost Variance		BCWS	BCWP	ACWP	Schedule Variance	Cost Variance
OHVV01 - HLW Vit & High Activ Proc EX05H5010		3,642	3,075	2,905	(567)	170	38,899	13,505	12,130	13,570	(1,375)	(1,440)
OHVV02 - Site Trans, Decm, & Prj Comp EX05H5020		3,300	3,501	3,104	201	397	40,240	14,619	13,160	12,663	(1,459)	497
OHVV03 - Spent Nuclear Fuel EX05H5030		2,361	2,132	691	(229)	1,441	9,060	3,306	2,880	2,494	(426)	386
OHVV04 - Project Mgmt/Site Support EX05H5040		2,950	2,833	2,542	(117)	291	34,324	11,160	10,553	10,624	(607)	(71)
<b>Total DOE by PBS</b>		<b>8,611</b>	<b>8,466</b>	<b>6,337</b>	<b>(145)</b>	<b>2,129</b>	<b>122,523</b>	<b>42,590</b>	<b>38,723</b>	<b>39,351</b>	<b>(3,867)</b>	<b>(628)</b>

**West Valley Demonstration Project  
Accelerated Cleanup Path to Closure Planning Level Data  
Milestone Listing**

CONTROL LEVEL				MILESTONE DESCRIPTION	DATE	STATUS
Level 0 (AE)	Level 1 (PSO/FMO)	Level 2 (DOE-WV)	Level 3 (WVNS)			
#10166 PBS02				ISSUE ROD FOR PROJECT COMPLETION	MAY-00	Note 2
#10175 PBS03				BEGIN TO SHIP WV-SNF TO INEEL	APR-01	
#10170 PBS02				NRC APPROVE DECOMMISSIONING PLAN	SEP-01	
#10153 PBS01				BEGIN HLW VIT SYSTEMS/MELTER DEACTIVATION	OCT-01	
#10350 PBS01				PROJECT END PBS-OH-WV-01: HLW VIT & TANK HEEL HAW PROCESSING	SEP-02	
#11379 PBS02				DOE-HQ IDENTIFY HLW RECEIVER SITE	OCT-02	Note 1
#11394 PBS02				DOE-HQ IDENTIFY TRU RECEIVER SITE	SEP-03	
#10180 PBS03				PROJECT END PBS-OH-WV-03: SPENT NUCLEAR FUEL TERMINATED	SEP-05	
#11378 PBS02				WV-HLW SHIPPING READINESS REVIEW/DOE APPROVAL	SEP-06	Note 1
#11401 PBS02				PROJECT END PBS-OH-WV-02: SITE TRANS, DECON & PROJECT COMPLETION	SEP-15	
#10182 PBS04				WVDP PROJECT COMPLETION	SEP-15	

Note 1 HQ PEIS ROD Issued. HLW will remain on-site until a Federal Repository is available.

Note 2 Milestone will be revised pending outcome of DOE/NYS Preferred Alternative Negotiations

**West Valley Demonstration Project  
Accelerated Cleanup Path to Closure Planning Level Data  
Milestone Listing**

CONTROL LEVEL				MILESTONE DESCRIPTION	DATE	STATUS
Level 0 (AE)	Level 1 (PSO/FMO)	Level 2 (DOE-WV)	Level 3 (WVNS)			
		#10176 PBS03		COMPLETE SNF TRANSPORTATION PLAN	AUG-99	Complete AUG 28, 1999
		#10181 PBS03		WV SNF EQUIPMENT/FACILITIES PREPARED	SEP-99	Complete SEP 24, 1999
		#10168 PBS02		ISSUE PREFERRED ALTERNATIVE/FINAL EIS	APR-00	Note 2
		#10155 PBS01		COMPLETE WV HLW TANK RESIDUALS VITRIFICATION PROCESSING	SEP-01	
		#10178 PBS03		COMPLETE SHIPMENT OF WV-SNF TO INEEL	SEP-01	
		#11385 PBS02		COMPLETE EQUIPMENT UPGRADES FOR HEC DEBRIS REMOVAL	SEP-02	
		#10154 PBS01		COMPLETE HLW VIT SYSTEMS/MELTER DEACTIVATION	SEP-02	
		#11380 PBS02		INITIATE PROCUREMENT OF HLW CASKS/RECEIVER SITE MODS/AGREEMENTS	OCT-02	Note 1
		#11390 PBS02		COMPLETE DESIGN/CONSTRUCTION OF REMOTE HANDLED WASTE FACILITY	SEP-04	
		#11386 PBS02		COMPLETE HEAD-END CELL DEBRIS REMOVAL	SEP-04	
		#11393 PBS02		RECEIVE TRU WASTE ACCEPTANCE SPECIFICATION	SEP-04	

Note 1 HQ PEIS ROD Issued. HLW will remain on-site until a Federal Repository is available.

Note 2 Milestone will be revised pending outcome of DOE/NYS Preferred Alternative Negotiations

### West Valley Demonstration Project Accelerated Cleanup Path to Closure Planning Level Data Milestone Listing

CONTROL LEVEL				MILESTONE DESCRIPTION	DATE	STATUS
Level 0 (AE)	Level 1 (PSO/FMO)	Level 2 (DOE-WV)	Level 3 (WVNS)			
		#11377 PBS02		COMPLETE HLW LOAD-OUT FACILITY CONSTRUCTION	SEP-05	
		#11395 PBS02		COMPLETE PREPARATIONS FOR TRU WASTE SHIPMENTS	SEP-05	
		#11387 PBS02		COMPLETE REMOVAL OF PROCESS BUILDING RETRIEVEABLE CONTAMINATION	SEP-05	
		#10179 PBS03		COMPLETE D&D OF FUEL RECEIVING & STORAGE AREA	SEP-05	
		#11396 PBS02		BEGIN WV TRU SHIPMENT TO RECEIVER SITE	OCT-05	
		#11375 PBS02		COMPLETE REMOVAL OF CONATMINATED EQUIPMENT/PIPING FROM VIT FAC	SEP-06	
		#11381 PBS02		COMPLETED PROCUREMENT OF HLW CASKS/RECEIVER SITE MODS/AGREEMENT	SEP-06	
		#11382 PBS02		BEGIN HLW CANISTER SHIPMENT	OCT-06	Note 1
		#11383 PBS02		COMPLETE HLW CANISTER SHIPMENT	SEP-10	Note 1
		#11388 PBS02		COMPLETE PROCESS BUILDING DECON BEFORE FINAL DISPOSITION	SEP-10	
		#11389 PBS02		COMPLETE TREATMENT/PACKAGING OF VF/PB DECON RH-TRU/HAW	SEP-10	

Note 1 HQ PEIS ROD Issued. HLW will remain on-site until a Federal Repository is available.

**West Valley Demonstration Project  
Accelerated Cleanup Path to Closure Planning Level Data  
Milestone Listing**

CONTROL LEVEL				MILESTONE DESCRIPTION	DATE	STATUS
Level 0 (AE)	Level 1 (PSO/FMO)	Level 2 (DOE-WV)	Level 3 (WVNS)			
		#11376 PBS02		COMPLETED D&D OF VIT FAC & HLW TANK FARM	SEP-10	
		#11391 PBS02		COMPLETE TREATMENT/PACKAGING OF CPC/WSA RH-TRU/HAW	SEP-12	
		#11399 PBS02		COMPLETE D&D OF BALANCE OF PROJECT FACILITIES PER ROD/NRC	SEP-13	
		#11397 PBS02		COMPLETE WV TRU SHIPMENT TO RECEIVER SITE	SEP-13	
		#11392 PBS02		COMPLETE D&D OF REMOTE HANDLED WASTE FACILITY	SEP-14	
		#11400 PBS02		COMPLETE LLW SHIPMENTS	SEP-14	
		#11384 PBS02		COMPLETE FINAL DISPOSITION OF PB/VF/TF PER ROD	SEP-15	
		#11398 PBS02		CLOSEOUT DOCUMENTATION FOR PROJECT COMPLETION	SEP-15	
			#11266 PBS02	DEVELOP A PREFERRED ALTERNATIVE FOR THE SITE EIS	JUN-99	Forecast April 2000
			PBS01	TRANSFER GREATER THAN 1,610 CURIES OF Pu-241 AND Tc-99 TO THE CFMT	SEP-00	
			PBS02	IDENTIFY AND SIZE REDUCE 8 ITEMS VITRIFICATION EXPENDED MATERIAL SUSPECTED TO BE CONTAMINATED WITH HLW IN CELL USING SELECT TOOLING	SEP-00	

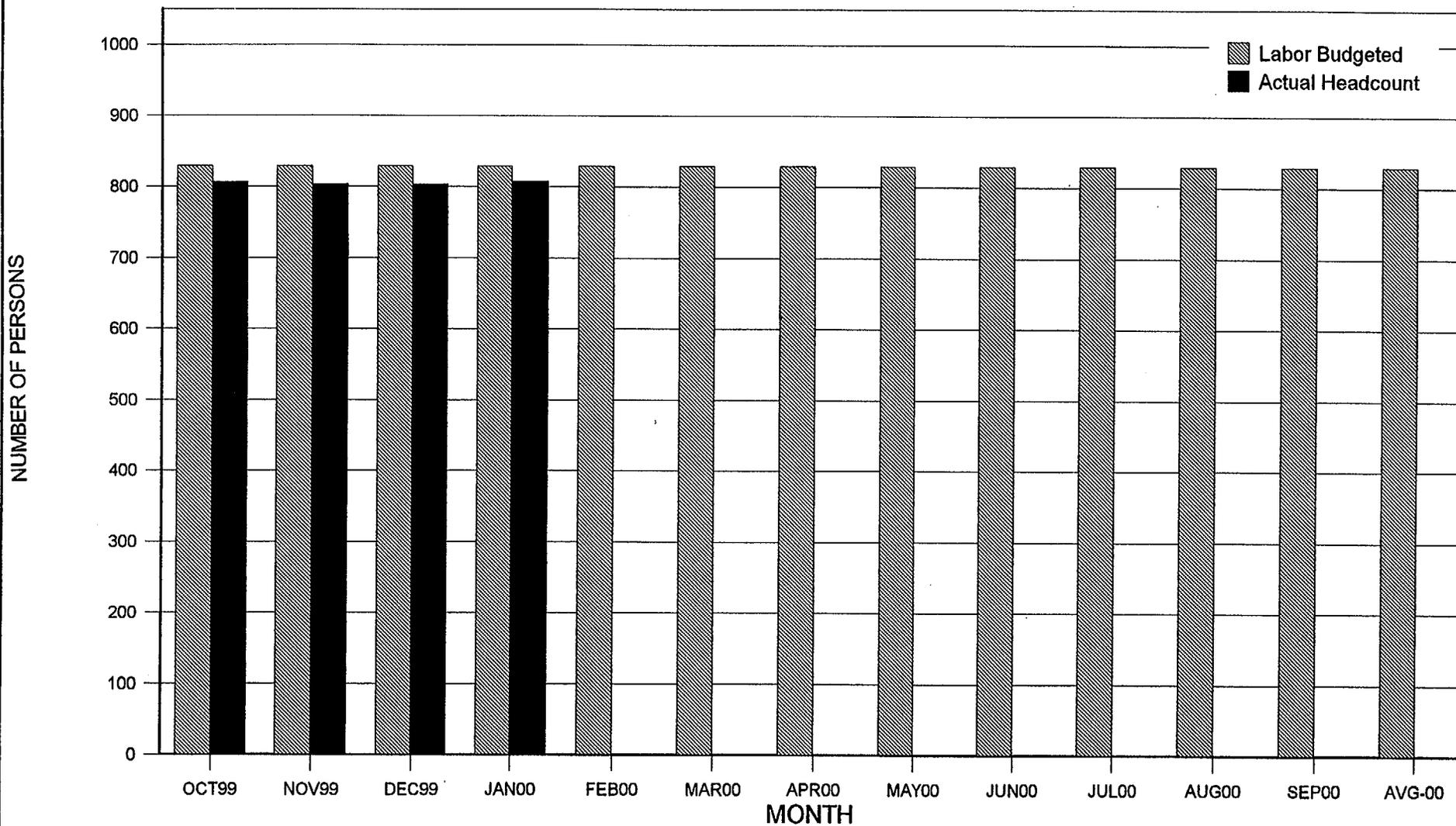
**West Valley Demonstration Project  
Accelerated Cleanup Path to Closure Planning Level Data  
Milestone Listing**

CONTROL LEVEL				MILESTONE DESCRIPTION	DATE	STATUS
Level 0 (AE)	Level 1 (PSO/FMO)	Level 2 (DOE-WV)	Level 3 (WVNS)			
			PBS01	TRANSFER Cs-137 ACTIVITY FROM TANK 8D-1 TO THE CFMT	SEP-00	
			#10177 PBS03	COMPLETE PREPARATION/APPROVALS FOR SNF SHIPMENTS	MAR-01	
			PBS02	SHIP 30,000 cu Ft (850 m3) OF LLW	SEP-00	
			PBS02	COMPLETE THE REFURBISHMENT OF THE PMC B, PMC C AND GPC B WINDOWS	JAN-00	Complete JAN 18, 2000
			PBS02	COMPLETE PRELIMINARY DESIGN OF THE REMOTE HANDLED WASTE FACILITY	AUG-00	
			PBS03	COMPLETE 100 TON CRANE MODIFICATIONS FOR PLANNED ENGINEERING LIFTS IN EXCESS OF 100 TONS FOR SPENT NUCLEAR FUEL HANDLING	FEB-00	Complete JAN 28, 2000
			PBS03	COMPLETE LINE MANAGEMENT SELF-ASSESSMENT TO VERIFY READINESS TO SHIP SNF	SEP-00	
			PBS03	COMPLETE TRAINING AND CERTIFICATION OF SPENT FUEL HANDLERS	AUG-00	
			PBS02	ASSESS OPERATION OF THE 2ND LOBE PILOT SCALE PERMEABLE TREATMENT WALL	MAY-00	
			PBS01	DEVELOP A CURIE QUANTIFICATION METHOD TO ASSESS RESIDUAL ACTIVITY IN HLW STORAGE TANKS	MAR-00	
			PBS02	COMPLETE THE STARTUP AND TURNOVER TO OPERATIONS OF THE PROCESS MECHANICAL CELL CRANE ROOM ENCLOSURE	SEP-00	

**West Valley Demonstration Project  
Accelerated Cleanup Path to Closure Planning Level Data  
Milestone Listing**

CONTROL LEVEL				MILESTONE DESCRIPTION	DATE	STATUS
Level 0 (AE)	Level 1 (PSO/FMO)	Level 2 (DOE-WV)	Level 3 (WVNS)			
			PBS02	SHIP LLW PREPPED AND STAGED FOR SHIPMENT BY RAIL FROM THE WVDP VIA ON-SITE RAIL	SEP-00	
			PBS02	PREPARE PROGRAMMATIC BASIS FOR SHIPMENT OF LLW BY RAIL	JUN-00	
			PBS02	COMPLETE DESIGN OF ENCLOSURE FOR GENERAL PURPOSE CELL CRANE ROOM	MAY-00	
			PBS02	SUBMIT PRELIMINARY REMOTE HANDLED WASTE FACILITY SAR TO OH/WVDP FOR REVIEW AND APPROVAL	JAN-00	Complete JAN 4, 2000

## FY 2000 Labor Summary 31-January-2000 WVNS Personnel



Labor Budgeted	829	829	829	829	829	829	829	829	829	829	829	829	829
Actual Headcount	807	804	804	808									

Excludes 18 Casuals