

Memorandum

Ohio Field Office
West Valley Demonstration Project

DATE: February 1, 2000

SUBJECT: West Valley Demonstration Project (WVDP) November 1999 Progress Report

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

Attached is the WVDP Progress Report for November 1999. Any questions regarding the information contained therein can be directed to Lisa Maul at (716) 942-2163.



Barbara A. Mazurowski, Director
West Valley Demonstration Project

Attachment: WVDP Progress Report November 1999

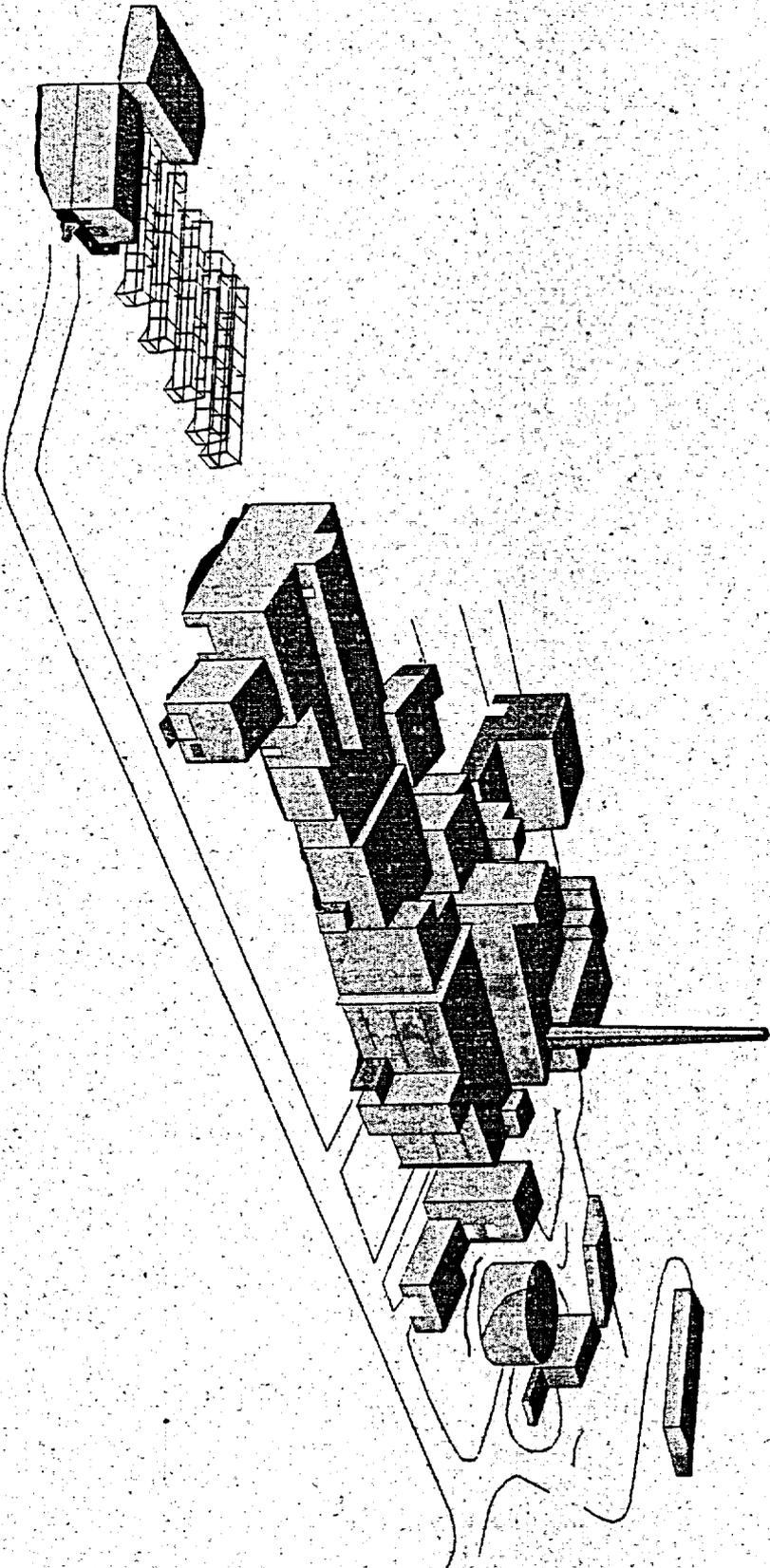
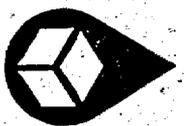
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LMM/brb



**West Valley Demonstration Project
Progress Reports
November 1999**



**West Valley Demonstration Project
Progress Report
November 1999**

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PROGRESS REPORT

Report No. 205
Reporting Period: November 1999

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 WYNNSC 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

Six of nine High Level Waste (HLW) transfers from tank 8D-2 to Concentrator Feed Makeup Tank (CFMT) were completed for the next batch. Mid-batch calculations indicate an estimated 275,000 Curies of Cesium and Strontium transferred. Additionally 1238 curies of alpha transuranics, Plutonium-241 and Technetium-99 has been transferred to CFMT for processing, final and more accurate estimates will be available after all batch transfers are complete. The Commitment for FY2000 is to transfer greater than 1610 curies of alpha transuranics, Plutonium-241 and Technetium-99. The Vitrification Facility melter is currently idle with the 243rd canister, the 2nd in fiscal year 2000 under the melter feed pour spout. Melter operations are scheduled to resume in December, 1999. The canister fill height for FY2000 is 93.6%, exceeding the Waste Acceptance Criteria (WAC) minimum requirement of 80% for disposal at the Federal Repository.

Vitrification Expended Materials Processing (VEMP) is a Technology Deployment activity partially funded by DOE EM-50. Six items of Vitrification expended materials have been size reduced. Of that total, five items were determined to be contaminated with HLW and apply toward completion of the Commitment to size reduce at least eight items of Vit Expended Material suspected to be contaminated with HLW by September 30, 2000. Three of these items were size reduced during November, 1999.

The Remote Handled Waste Facility (RHWF) will be designed and built to allow project personnel to safely prepare WVDP highly radioactive waste for shipping and off-site disposal. The Preliminary Safety Analysis Report (PSAR) was presented to the West Valley Nuclear Services Company (WVNS) Radiation and Safety Committee for review. This is the final step before presenting the PSAR to DOE for a joint DOE Ohio Field Office and DOE Ohio Field Office West Valley Demonstration Project review. The Commitment to transmit a complete PSAR to DOE-OH/WVDP by January 15, 2000.

An Interagency Agreement between the Department of Energy (DOE) and the Nuclear Regulatory Commission (NRC) for the NRC review of revised Spent Fuel Shipping Casks Safety Analysis Reports (SARs) for proposed full load shipments, including damaged fuel, from WVDP to INEEL has been signed by both parties. The Interagency Agreement was a prerequisite for a technical meeting with the NRC Spent Fuel Project Office (SFPO) staff to present bounding criticality, containment, and structure analyses prior to completing all SAR analyses. The technical meeting is being arranged for December 16, 1999. Approval for full-load shipments would enable all 125 of the DOE-owned Spent Nuclear Fuel assemblies to be shipped to Idaho Nuclear Engineering and Environmental Laboratory (INEEL) in one shipment in lieu of the currently planned two shipments which would save handling and shipping costs at WVDP and INEEL.

The Citizen Task Force (CTF) met on November 30, 1999 to discuss the Nuclear Regulatory Commission's (NRC) draft Policy Statement on Decontamination and Decommissioning Criteria for the WVDP as part of the overall EIS process and determine final disposition status of facilities at the site. The NRC is planning to hold a public meeting in Western New York on January 5, 2000, to present information regarding their policy statement and to solicit comments from the public. The CTF will be presenting comments at the meeting.

The DOE-Voluntary Protection Plan (VPP) team conducted their on-site review the week of November 15, 1999. In their closing meeting, the review team informed the participants that they will recommend that WVNS be awarded VPP Star Status.

Employees and Project subcontractors at the West Valley Demonstration Project banded together to collect 30 tons of food to help needy families during the Project's 11th Annual Community Food Drive November 8-19, 1999. The record-breaking collection filled food pantries in the towns of Wessy Valley, Little Valley, Eddyville, Franklinville, and Springville. Food was also taken into city of Buffalo "Friends of the Night People" and "City Mission" shelters. Additional donations were made by Project staffers at the Springville Wal-Mart.

NARRATIVE HIGHLIGHTS AND ASSESSMENT

Overall Assessment

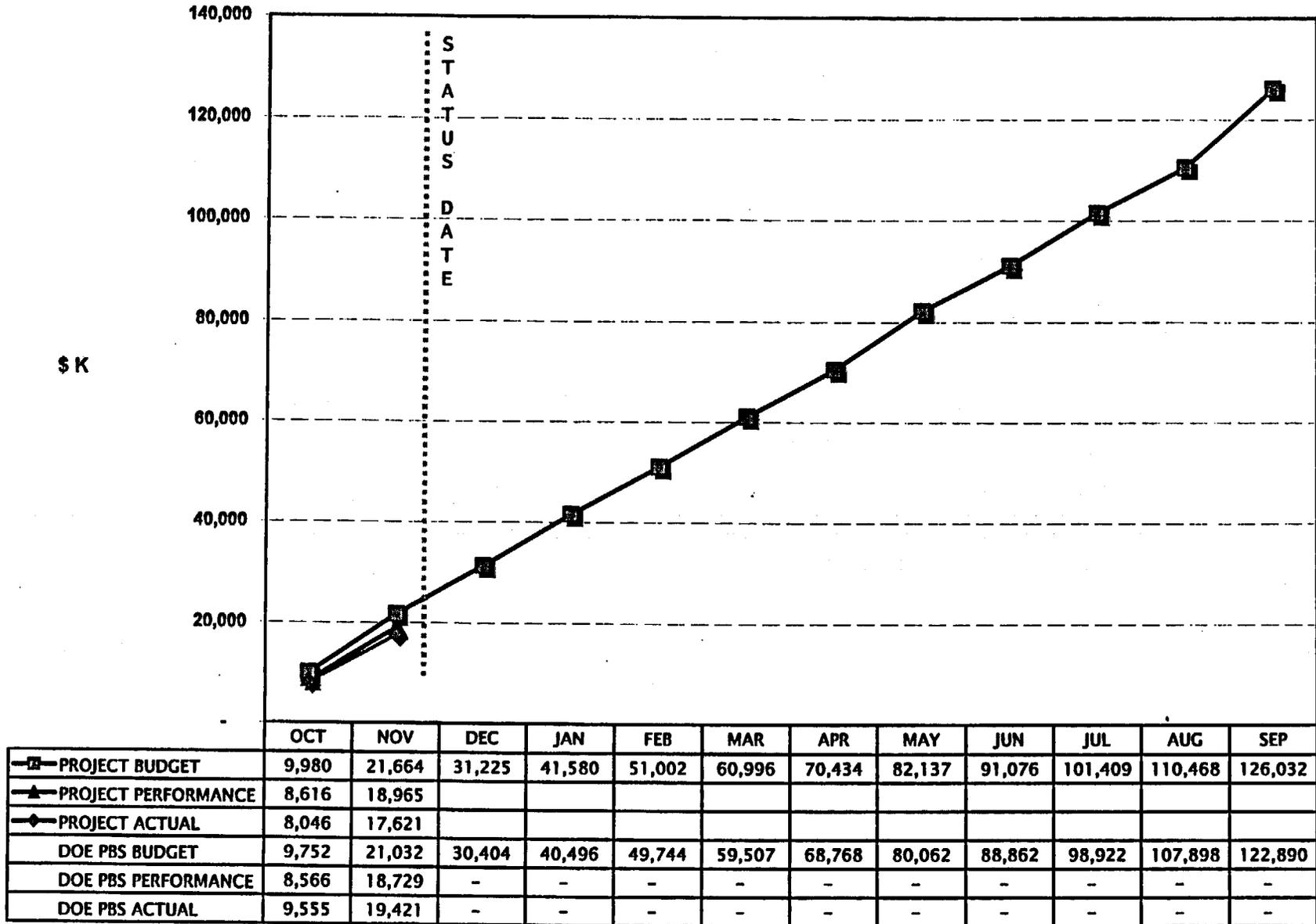
Assessment/Actions

The Project experienced a \$2.7M negative schedule variance resulting from delays in lab testing for sodium solidification, delays in delivery of cameras for the Advanced Waste Retrieval System and postponement of installation of 8D-2 mast-mounted camera. Fabrication of the Bridge Mounted Manipulator Systems and construction of Process Mechanical Cell Room enclosure also contribute to the variance. None of these are impacting to the Project schedule or Commitments.

The Project's Cumulative \$1.3M Positive Cost Variance through November is a result of less than planned costs associated with Site Transportation, Decommissioning & Project Cleanup (\$0.75M) and Project Management / Site Support (\$0.5M).

Project Performance to date for FY2000 is 17% of work planned, 15% of work performed and 14% costed.

Total Project



NARRATIVE HIGHLIGHTS AND ASSESSMENT

PBS OH-WV-01: HLW Vitrification & High Activity Waste Processing

Accomplishments/Status

Progress continues toward high-level waste (HLW) tank heel removal. Completed work during November included liquid processing from Tank 8D-1 through the Supernatant Treatment System (STS) to the Liquid Waste Treatment System (LWTS) evaporator, evaporator processing in the LWTS for volume reduction, waste transfers from Tank 8D-2 to the Concentrator Feed Makeup Tank (CFMT) in the Vitrification Facility and evaporator processing in the LWTS for volume reduction.

The Vitrification Facility melter is currently idle with the 243rd canister, the 2nd in fiscal year 2000 under the melter feed pour spout. Melter operations are scheduled to resume in December, 1999. The canister fill height for FY2000 is 93.6%, exceeding the Waste Acceptance Criteria (WAC) minimum requirement of 80% for disposal at the Federal Repository.

Advanced High Level Waste retrieval activities conducted during November included several project review visits to the vendors' shops responsible for fabricating necessary equipment. Fabrication of the mast-tool delivery components and test equipment at Specialty Maintenance and Construction, Inc. (SMCI) (Lakeland, FL) are on schedule; prototype grinder-separator testing was completed at West Metal Works (Buffalo, NY) and shipped to SMCI for inclusion in system testing; all components of the telescopic arm and jet-pump assembly were completed and are ready for assembly; fabrication of the control skid continues at WVNS.

Six of nine High Level Waste (HLW) transfers from tank 8D-2 to Concentrator Feed Makeup Tank (CFMT) were completed for the next batch. Mid-batch calculations indicate an estimated 275,000 Curies of Cesium and Strontium transferred. Additionally 1238 curies of alpha transuranics, Plutonium-241 and Technetium-99 has been transferred to CFMT for processing, final and more accurate estimates will be available after all batch transfers are complete. The Commitment for FY2000 is to transfer greater than 1610 curies of alpha transuranics, Plutonium-241 and Technetium-99.

Vitrification Expended Materials Processing (VEMP) is a Technology Deployment activity partially funded by DOE EM-50. Six items of Vitrification expended materials have been size reduced. Of that total, five items were determined to be contaminated with HLW and apply toward completion of the Commitment to size reduce at least eight items of Vit Expended Material suspected to be contaminated with HLW by September 30, 2000. Three of these items were size reduced during November, 1999.

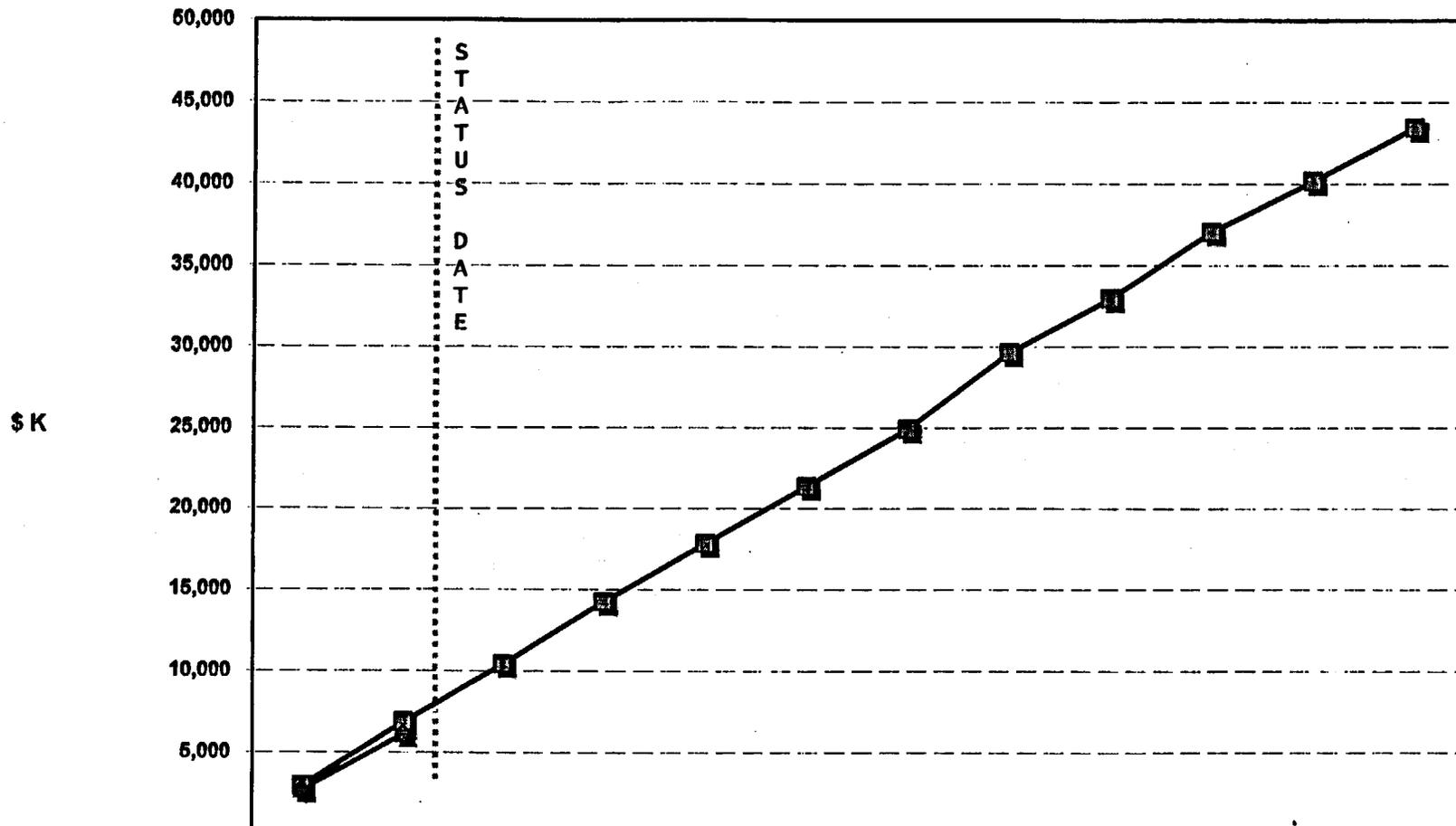
Assessment/Actions

HLW Vitrification has incurred a negative cumulative schedule variance of \$0.7 million through November. This is due primarily to delays in (1) lab testing for sodium solidification, now expected to be conducted in the January/February time period and (2) delivery of cameras for the Advanced Waste Retrieval (AWR) arm now delayed until December or January. The cameras are not required for the testing of the AWR system to be performed in January/February. Furthermore, installation of the 8D-2 mast mounted camera was originally planned for November or December but due to current favorable waste tank conditions, the camera is not required until spring and will be installed at that time.

There was no appreciable cost variance for November.

Performance to date for FY 2000 is 16% of work planned, 14% of work performed and 14% 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	10,392	14,216	17,805	21,367	24,891	29,639	32,952	37,041	40,137	43,418
—▲— PROJECT PERFORMANCE	2,744	6,148										
—●— PROJECT ACTUAL	2,666	6,128										
DOE PBS BUDGET	2,899	6,689	10,146	13,852	17,346	20,816	24,252	28,789	32,035	35,980	39,030	42,248
DOE PBS PERFORMANCE	2,759	6,200	-	-	-	-	-	-	-	-	-	-
DOE PBS ACTUAL	3,496	6,887	-	-	-	-	-	-	-	-	-	-

NARRATIVE HIGHLIGHTS AND ASSESSMENT

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

Accomplishments/Status

The Remote Handled Waste Facility (RHWF) will be designed and built to allow project personnel to safely prepare WVDP highly radioactive waste for shipping and off-site disposal. The Preliminary Safety Analysis Report (PSAR) was presented to the West Valley Nuclear Services Company (WVNS) Radiation and Safety Committee for review. This is the final step before presenting the PSAR to DOE for a joint DOE Ohio Field Office and DOE Ohio Field Office West Valley Demonstration Project review. The Commitment to transmit a complete PSAR to DOE-OH/WVDP by January 15, 2000.

On November 23, 1999, in support of EIS Site Closure Alternative Analysis, the DOE, NYSERDA, WVNS and Science Applications International Corporation (SAIC) discussed with NRC and NYSDEC, SAIC's approach for responding to the Army Corps of Engineers, NYSDEC, and NRC comments on the SIBERIA erosion model. SAIC confirmed the ability of the SIBERIA erosion model to accommodate severe storm events and additional changes requested by these reviewers. Reaction from NRC was very favorable and there were no objections to SAIC's proposed path forward. Written responses are planned as a follow-up to these discussions with transmittals to NRC, NYSDEC, and Army Corps. An additional teleconference is scheduled for December 6th with NYSDEC. SAIC is moving forward with the erosion model analysis.

NRC has released their Draft Policy Statement for Decommissioning Criteria for the WVDP. The official Federal Register Notice issuing this Policy Statement is expected December 4th. NRC is planning a Public meeting at the AOC on January 5, 2000, to take comments on this Policy Statement.

Head End Cell work, to reduce the risk of radiation exposure and contamination while removing Spent Nuclear Fuel (SNF) debris from the former fuel reprocessing cells, continues with Hot Cell Services, Inc. completing the reassembly of the Process Mechanical Cell (PMC) C Window. The window was reinstalled on November 18, 1999. The Commitment for refurbishment of PMC B and C windows and GPC B window is January 31, 2000.

The Permeable Treatment Wall was installed to mitigate the migration of the contaminated groundwater plume on the North Plateau. Excavation of the contaminated soil for installation of the Permeable Treatment Wall has been completed and radiologically contaminated soil has been placed into 17 intermodals which were shipped off-site for disposal in November. The final sheet piles were removed and the wall is operational. The area has been capped with impermeable soil and performance monitoring is now being initiated.

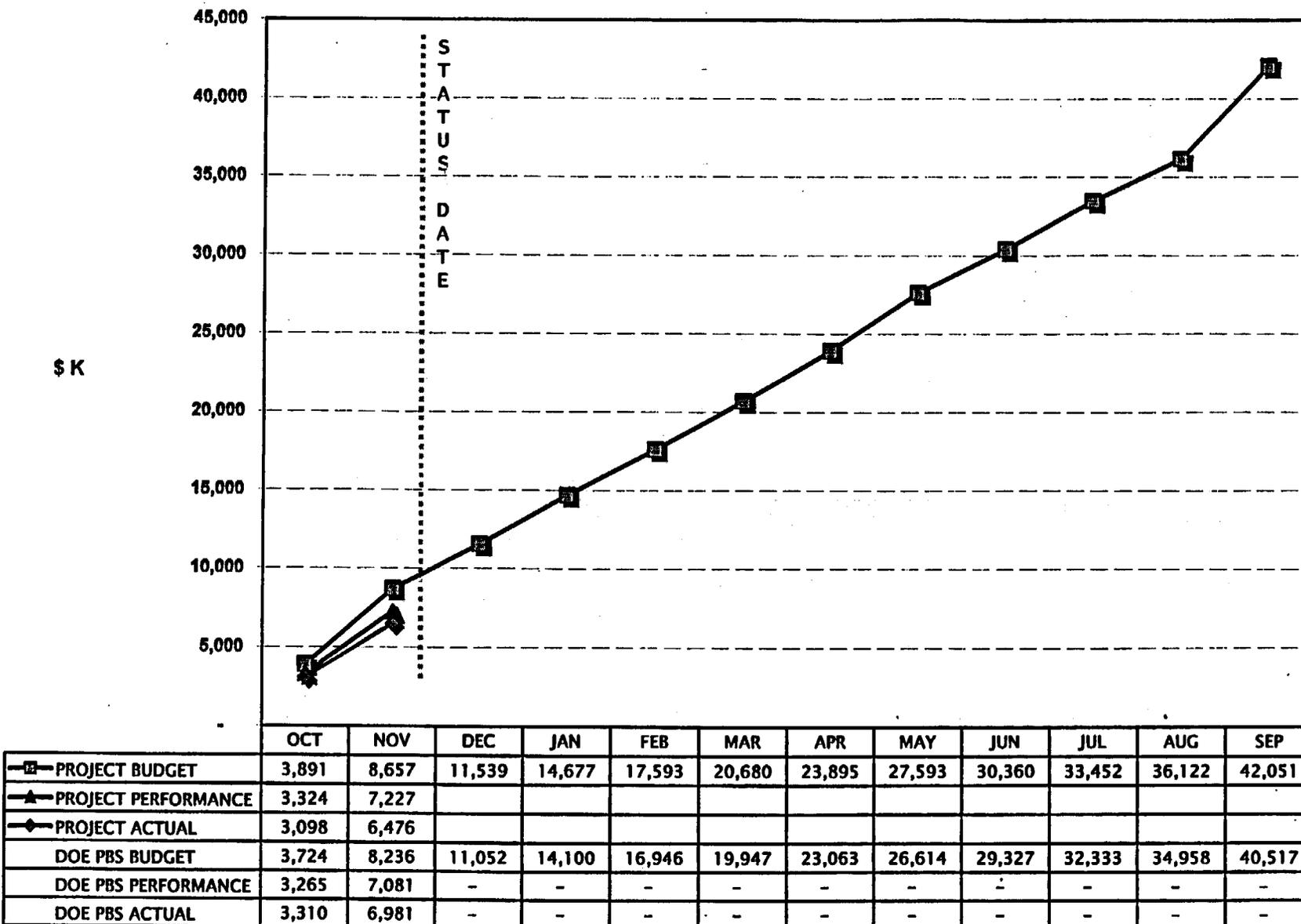
Assessment/Actions

The negative schedule variance increased by \$0.87 million in November, resulting in a cumulative negative schedule variance of \$1.43 million. The current month slippage is due to less than planned progress in fabrication of Head End Cell Bridge Mounted Manipulator Systems and construction of the PMCR enclosure. The balance of the variance remains due primarily to delays in completion of Head End Cell window refurbishment and main plant roof repair activities. None of these are impacting to the Project schedule.

Site Transportation, Decommissioning & Project Cleanup incurred a positive cost variance of \$0.75 million through November. This was due to less labor required than planned to perform Waste Management, Vitrification Expanded Material Processing, Facilities Stabilization and Site Decommissioning activities, as well as less maintenance required for waste storage operations.

Performance to date for FY 2000 is 21% of work planned, 17% of work performed and 15% costed.

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



NARRATIVE HIGHLIGHTS AND ASSESSMENT

PBS OH-WV-03: Spent Nuclear Fuel

Accomplishments/Status

An Interagency Agreement between the Department of Energy (DOE) and the Nuclear Regulatory Commission (NRC) for the NRC review of revised Spent Fuel Shipping Casks Safety Analysis Reports (SARs) for proposed full load shipments, including damaged fuel, from WVDP to INEEL has been signed by both parties. The Interagency Agreement was a prerequisite for a technical meeting with the NRC Spent Fuel Project Office (SFPO) staff to present bounding criticality, containment, and structure analyses prior to completing all SAR analyses. The technical meeting is being arranged for December 16, 1999. Approval for full-load shipments would enable all 125 of the DOE-owned Spent Nuclear Fuel assemblies to be shipped to Idaho Nuclear Engineering and Environmental Laboratory (INEEL) in one shipment in lieu of the currently planned two shipments which would save handling and shipping costs at WVDP and INEEL.

Transnuclear, Inc. (TN) is preparing cask SAR revisions for full loads for submittal to the NRC. A scope of work for the TN-REG criticality cases for the full load SAR revision was received. Information on the location of missing rods in the BRP SNF was provided to TN in response to their request. TN is evaluating whether the bounding criticality calculations envelop the configurations or whether additional calculations will be needed.

Han-Tek, Inc. personnel will return December 6 to complete the FRS 100 Ton Crane hook removal and replacement, gear replacement, and complete final maintenance required for planned engineered lifts of up to full loads of the shipping casks. The Commitment for completion of crane modifications is for February 29, 2000.

As of November 21, the Buffalo and Pittsburgh Railroad (B&PRR) has completed installation of 3,727 of the 7,128 replacement rail cross ties that have been distributed between Machias and Ashford Junction. An inspection of the completed work is scheduled for December 3. The work is being performed under the contract for rail service from the WVDP to Machias and is required to upgrade the existing rail line to accommodate safe transport of SNF to INEEL.

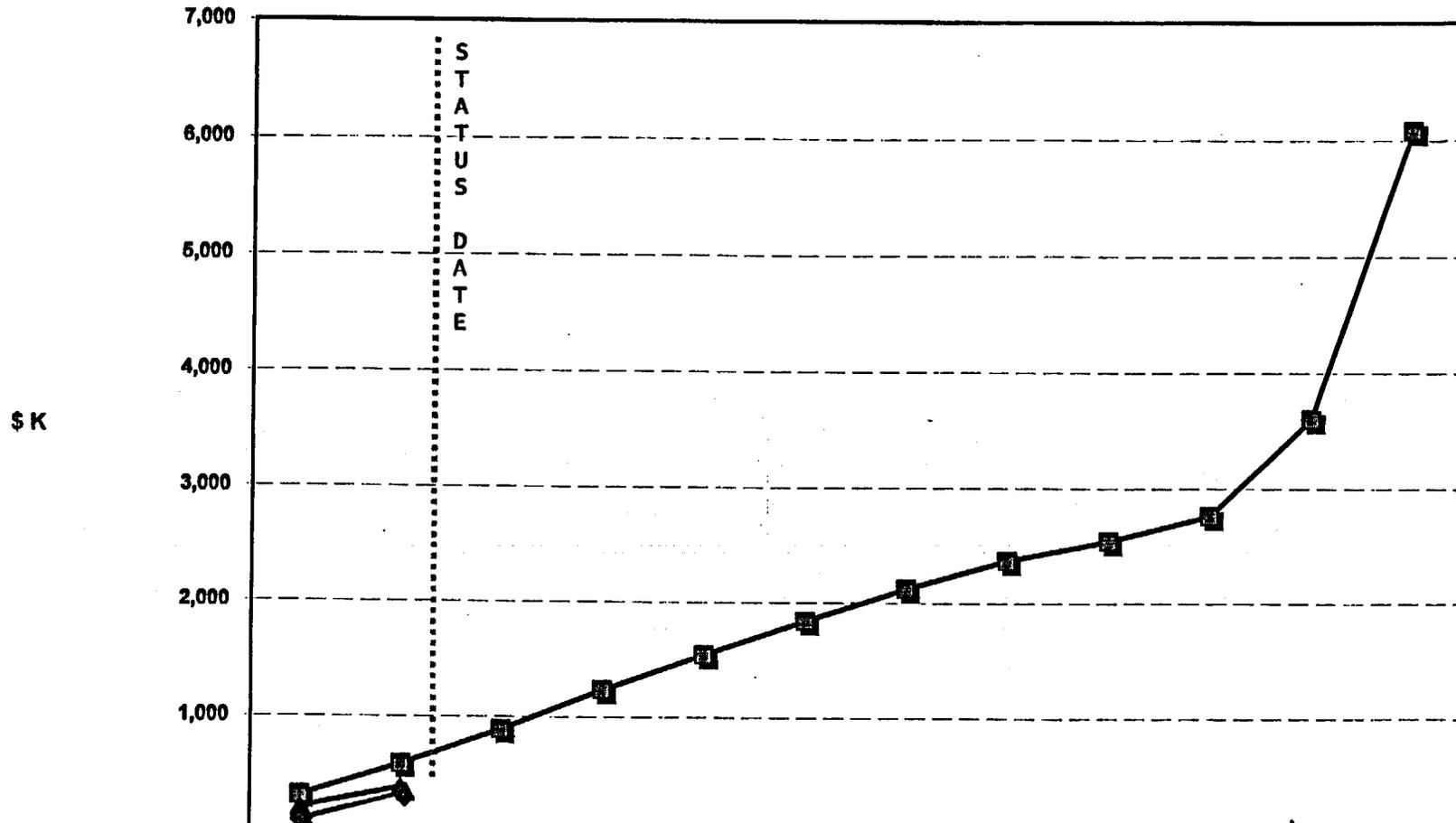
Work on the refurbishment of the WVDP 1.8 mile rail spur is in progress, including rail gauging from WVDP gate 14 out to the B&PRR main line. Work inside the radiologically posted areas is complete.

Assessment/Actions

Spent Nuclear Fuel incurred cumulative schedule or cost variance for November were a result of not acknowledging performance and costs for the railroad modifications performed during the month.

Performance to date for FY 2000 is 10% of work planned, 6% of work performed and 5% 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	887	1,228	1,539	1,838	2,120	2,365	2,536	2,757	3,603	6,077
▲ PROJECT PERFORMANCE	214	385										
◆ PROJECT ACTUAL	103	332										
DOE PBS BUDGET	357	666	1,011	1,392	1,744	2,084	2,407	2,694	2,906	3,168	4,056	6,571
DOE PBS PERFORMANCE	224	411	-	-	-	-	-	-	-	-	-	-
DOE PBS ACTUAL	113	365	-	-	-	-	-	-	-	-	-	-

NARRATIVE HIGHLIGHTS AND ASSESSMENT

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

Accomplishments/Status

On October 27, 1999, the WVNS Y2K Team met with Emergency Management to discuss the existing version of the Y2K Zero Day Plan, Zero Day strategy, and the process for testing the plan. In addition, the key WVNS policy setting aspects of the plan were presented to upper management for information and comment.

The Citizen Task Force (CTF) met on November 30, 1999 to discuss the Nuclear Regulatory Commission's (NRC) draft Policy Statement on Decontamination and Decommissioning Criteria for the WVDP as part of the overall EIS process and determine final disposition status of facilities at the site. The NRC is planning to hold a public meeting in Western New York on January 5, 2000, to present information regarding their policy statement and to solicit comments from the public. The CTF will be presenting comments at the meeting.

The next CTF meeting is scheduled for February 15, 2000, to discuss cost/benefit analysis and the NYSDEC's regulation of future closure of the New York State Licensed Disposal Area (SDA).

The DOE-Voluntary Protection Plan (VPP) team conducted their on-site review the week of November 15, 1999. In their closing meeting, the review team informed the participants that they will recommend that WVNS be awarded VPP Star Status.

There were no reportable clothing, skin, nasal, or internal contaminations (per DOE Order 232.1) for WVDP radiological workers in November 1999. Two OSHA-recordable incidents occurred during November 1999, making the WVDP's calendar year-to-date Total Recordable Case Rate (TRC) 2.09.

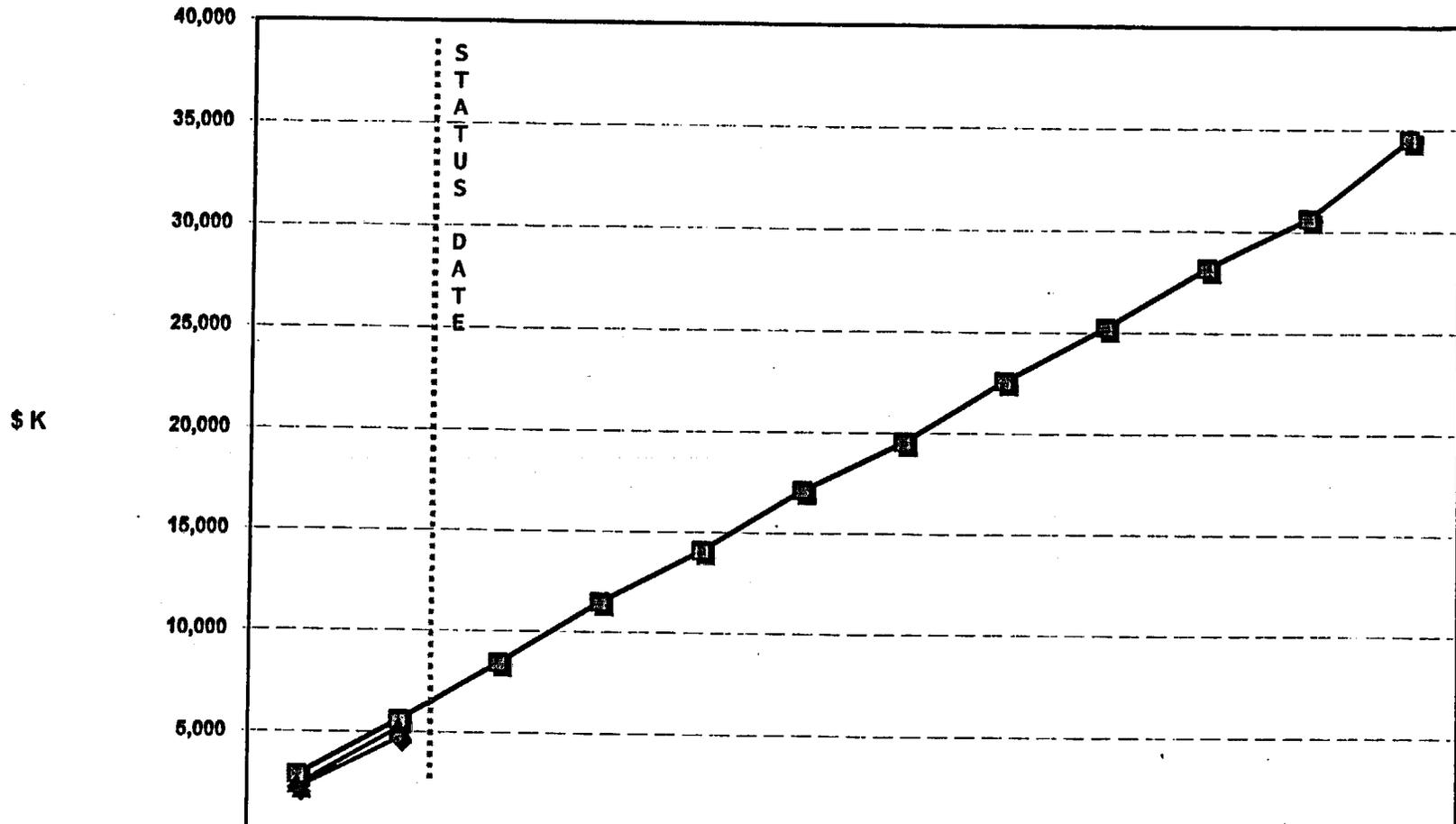
Employees and Project subcontractors at the West Valley Demonstration Project banded together to collect 30 tons of food to help needy families during the Project's 11th Annual Community Food Drive November 8-19, 1999. The record-breaking collection filled food pantries in the towns of West Valley, Little Valley, Eddyville, Franklinville, and Springville. Food was also taken into city of Buffalo "Friends of the Night People" and "City Mission" shelters. Additional donations were made by Project staffers at the Springville Wal-Mart.

Assessment/Actions

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

Performance to date for FY 2000 is 16% of work planned, 15% of work performed and 14% 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	11,459	14,065	17,111	19,529	22,540	25,228	28,158	30,606	34,485
PROJECT PERFORMANCE	2,334	5,204										
PROJECT ACTUAL	2,180	4,686										
DOE PBS BUDGET	2,771	5,440	8,195	11,152	13,708	16,660	19,045	21,965	24,594	27,442	29,854	33,556
DOE PBS PERFORMANCE	2,318	5,037	-	-	-	-	-	-	-	-	-	-
DOE PBS ACTUAL	2,636	5,188	-	-	-	-	-	-	-	-	-	-

WVNS Monthly Progress Report - November 1999
ADMINISTRATIVE

Project personnel as of November 30, 1999:

	<u>Mgt</u>	<u>Prof</u>	<u>NE</u>	<u>Hourly</u>	<u>Total</u>
WVNS On Board ¹	101	339	193	171	804
Contract Guard	0	0	0	25	25
Dames and Moore ²	8	33	0	0	41
Project Total:	<u>109</u>	<u>369</u>	<u>193</u>	<u>196</u>	<u>870</u>
EEO Statistics:					
	<u>Mgt</u>	<u>Prof</u>	<u>NE</u>	<u>Hourly</u>	<u>Total</u>
Minority (Included in WVNS Total)	10	44	11	13	78
Female (Included in WVNS Total)	14	73	123	22	232

¹ On Board total excludes 16 casuals.

² 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

WVNS filed its brief against the Tax Appeals Tribunal of the State of NY before the Appellate Division. Oral Argument is expected to be scheduled in February 2000.

TOTAL PROJECT EARNED VALUE REPORT

November 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	3,917	3,404	3,462	(513)	(58)	6,845	6,148	6,128	(697)	20	43,418
PBS 02 - SITE TRANSITION, DECOMMISSIONING & PROJECT COMPLETION	4,766	3,904	3,378	(862)	526	8,657	7,227	6,476	(1,430)	751	42,051
PBS 03 - SPENT NUCLEAR FUEL	268	171	229	(97)	(58)	584	385	332	(199)	53	6,077
PBS 04 - PROJECT MANAGEMENT & SITE SUPPORT	2,732	2,870	2,505	138	365	5,578	5,204	4,685	(374)	519	34,485
PMB	11,683	10,349	9,574	(1,334)	775	21,664	18,964	17,621	(2,700)	1,343	126,031
WVNS MR	-	-	-	-	-	-	-	-	-	-	1,427
TOTAL WVNS	11,683	10,349	9,574	(1,334)	775	21,664	18,964	17,621	(2,700)	1,343	127,458
Deobligations/Expense	143	122	122	(21)	-	286	37	37	(249)	-	1,716
Taxes	-	-	-	-	-	-	-	-	-	-	1,500
Fee/Credit/Other	958	1,037	1,037	79	-	1,915	1,945	1,945	30	-	11,491
DOE MR	-	-	-	-	-	-	-	-	-	-	2,000
Non Project s/t	2	2	2	-	-	4	4	4	-	-	25
	1,103	1,161	1,161	58	-	2,205	1,986	1,986	(219)	-	16,732
FY 1999 TOTAL WVDP	12,786	11,510	10,735	(1,276)	775	23,869	20,950	19,607	(2,919)	1,343	144,190

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)

November FY 2000

Project Budget	Prior	FY2000	FY 2001-2015	Total
PBS 1 High-Level Waste Processing	-	43,418	81,066	124,484
PBS 2 Transition & Project Completion	-	42,051	1,186,565	1,228,616
PBS 3 Spent Nuclear Fuel	-	6,077	10,477	16,554
PBS 4 Project Management & Support	-	34,485	455,152	489,637
Prior - WBS	1,419,616	-	-	1,419,616
Escalation	-	-	349,888	349,888
PMB Line	1,419,616	126,031	2,083,148	3,628,795
WVNS Mgmt. Reserve	-	1,427	-	1,427
Contract Budget Base	1,419,616	127,458	2,083,148	3,630,222
Deobs to Other Sites/Expense	66,383	1,716	-	68,099
IWOs to Other Sites	1,763	-	-	1,763
Fee/Credit	150,572	11,491	-	162,063
DOE Mgmt. Reserve	-	2,000	-	2,000
Relocation	1,179	-	-	1,179
Taxes	-	1,500	-	1,500
Non Project	-	25	-	25
TOTAL TPCE (YOE)	1,639,513	144,190	2,083,148	3,866,826
Project Funding Sources	Prior	FY2000	FY 2001-2015	Total
Dept. of Energy YOE (PBS 1-4)	1,470,884 ¹	107,353	1,875,943	3,454,180
Dept. of Energy YOE (OTHER)	1,306	1,000	-	2,306
Dept. of Energy C/O	15,543 ²	-	-	15,543
Dept. of Energy C/O(Other)	204	-	-	204
N.Y. State Funding	129,652	11,857	207,205	348,714
Supplem'l NYS (17% EIS)	4,653	412	-	5,065
Uncosted NYS Funding	353 ³	-	-	353
NYS Credit/Serv	33,018	1,241	-	34,259
Non Project	-	25	-	25
TOTAL PROJECT (YOE)	1,655,613	121,888	2,083,148	3,860,624

Assumptions:

Project Budget/Funding is comprised of DOE and NY components

Outyear project funding profile based on Paths To Closure Document (May 17, 1999) may vary from total due to rounding.

¹ Includes 20.6M Fuel ² Includes 1.3M Fuel ³ 1.3M Adj For FY99 Overpayment

Notes:

All entries in thousands of dollars - sum of the parts

TOTAL OUTYEAR BUDGET AND FUNDING

November FY2000

Project Budget	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
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
TOTAL BUDGET (YOE \$K)	118,737	127,283	131,834	134,098	137,605	140,828	144,340	144,340
Project Funding	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
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
TOTAL PROJECT (YOE \$K)	118,737	127,283	131,834	134,099	137,605	140,829	144,340	144,340

Project Budget	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
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
TOTAL BUDGET (YOE \$K)	144,340	144,340	144,339	144,340	144,340	144,340	133,667	123,112
Project Funding	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
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
TOTAL PROJECT (YOE \$K)	144,340	144,340	144,339	144,340	144,340	144,340	133,667	123,112

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:
November 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	42,247	6,887	35,012	6,811
OH-WV-02 Site Transition, Decommission & Proj C	10,688	28,027	38,715	40,518	6,981	31,734	8,585
OH-WV-03 Spent Nuclear Fuel	1,243	4,647	5,890	6,570	365	5,526	113
OH-WV-04 Project Management / Site Support	909	28,261	29,170	33,556	5,189	23,981	5,551
Contingencies , Reserves & Taxes	0	5,500	5,500	4,927	0	0	0
SUBTOTAL DOE EX05 CONTRACT	13,864	107,310	121,174	127,818	19,422	96,252	21,060
Other Ohio Office Obligations	267	0	267	267	(63)	329	(63)
TOTAL OHIO OFFICE	14,131	107,310	121,441	128,084	19,359	96,582	20,997
TOTAL DOE OBLIGATIONS ***	1,449	0	1,449	1,449	99	1,350	121
EX05 PROJECT OBLIGATED FUNDS	15,580	107,310	122,890	129,534	19,458	97,932	21,118
Unobligated Funds:	0	43	43	0	0	0	0
TOTAL EX05 PROJECT FUNDING FY99:	15,580	107,353	122,933	129,534	19,458	97,932	21,118
Non EX-05 Funding	93	1,000	1,093	1,093	(243)	1,114	91
TOTAL DOE	15,673	108,353	124,026	130,627	19,216	99,046	21,209
NYSERDA NE Project (SDA Share)	0	0	0	0	0	0	0
NYSERDA NE Proj. (EIS Share) + Fee	0	412	412	412	49	363	34
NYSERDA NS Project + Fee	353	11,523	11,876	11,876	(100)	11,976	978
NYSERDA Credit	0	1,241	1,241	1,241	207	1,034	207
NYSERDA NY Non-Project + Fee	0	25	25	25	4	0	4
TOTAL WVDP:	16,026	121,554	137,580	144,181	19,376	112,418	22,433

*** 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:
November 1999

Contract Number: DE-AC24-81NE44139

Dollars expressed in thousands.

DOE Obligations	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
DOE Obligation: Battelle PNNL (RL)	93	0	93	93	0	93	0
DOE Obligation: Ohio (SAIC)	1,229	0	1,229	1,229	(13)	1,243	(13)
DOE Obligation: Rocky Flats (SAIC Non-EIS)	11	0	11	11	0	11	0
DOE Obligation: LIMITCO	116	0	116	116	113	3	113
TOTAL DOE OBLIGATIONS	1,449	0	1,449	1,449	99	1,350	99

Non EX 05 Funding	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
SR work Authorization	10	0	10	10		10	10
Pollution Prevention	6	0	6	6		6	6
Y2K Compliance	70	0	70	70		70	70
ASTD Projects: VEMP	7	1,000	1,007	1,007	(21)	1,028	1,007
Undistributed Costs	0	0	0	0	(222)	0	0
Non EX05 Funding Total	93	1,000	1,093	1,093	(243)	1,114	1,093

West Valley Nuclear Services, Inc. - DOE Contract # NE44139
 Monthly Earned Value Summary by PBS
 Fiscal Year 2000

Reporting Period:
November 1999

PBS #	Description	Current Period					Cumulative to Date				
		BCWS	BCWP	ACWP	Schedule Variance	Cost Variance	BCWS	BCWP	ACWP	Schedule Variance	Cost Variance
OHWV01	HLW Vit & High Activ Proc	3,790	3,441	3,391	(349)	50	6,689	6,200	6,887	(489)	(687)
OHWV02	Site Trans, Decm, & Prj Comp	4,512	3,816	3,671	(696)	145	8,236	7,081	6,981	(1,155)	100
OHWV03	Spent Nuclear Fuel	309	187	113	(122)	74	666	411	365	(255)	46
OHWV04	Project Mgmt/Site Support	2,669	2,719	2,552	50	167	5,440	5,037	5,188	(403)	(151)
Total DOE by PBS		11,280	10,163	9,727	(1,117)	436	21,031	18,729	19,421	(2,302)	(692)

**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	
#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	
		#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 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	
		#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/V/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	

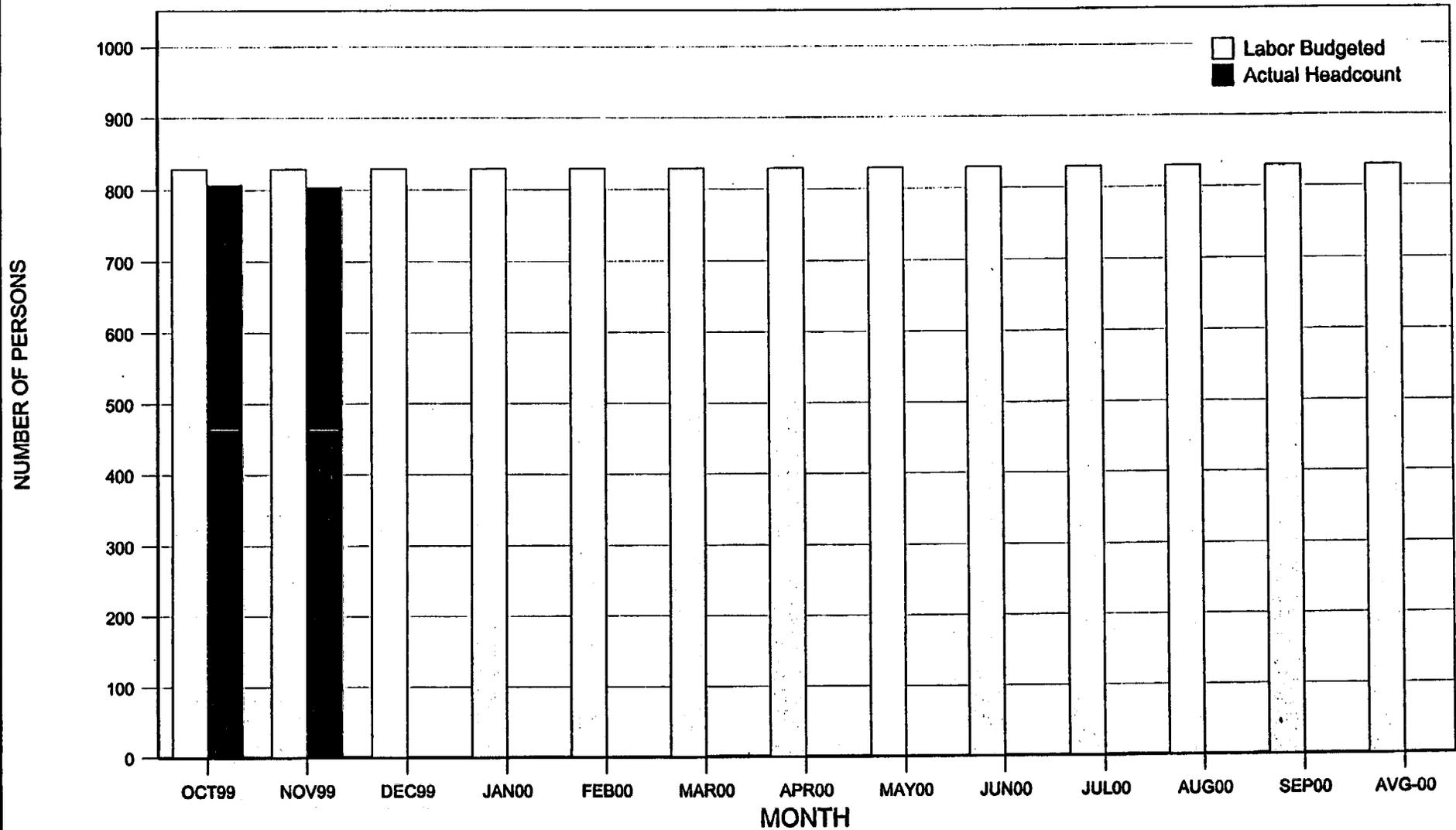
West Valley Demonstration Project Accelerated Cleanup Path to Closure Planning Level Data Milestone Listing

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 (927 m3) OF LLW	SEP-00	
			PBS02	COMPLETE THE REFURBISHMENT OF THE PMC B, PMC C AND GPC B WINDOWS	JAN-00	
			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	
			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	

FY 2000 Labor Summary 30-November 99 WVNS Personnel



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

Excludes 16 Casuals