

# Memorandum

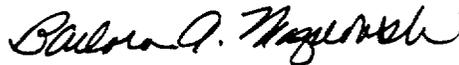
Ohio Field Office  
West Valley Demonstration Project

DATE: October 6, 1999

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

TO: Ralph E. Erickson  
DOE-HQ, EM-32, 1173/CLOV

Attached is the WVDP Progress Report for August 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 August 1999

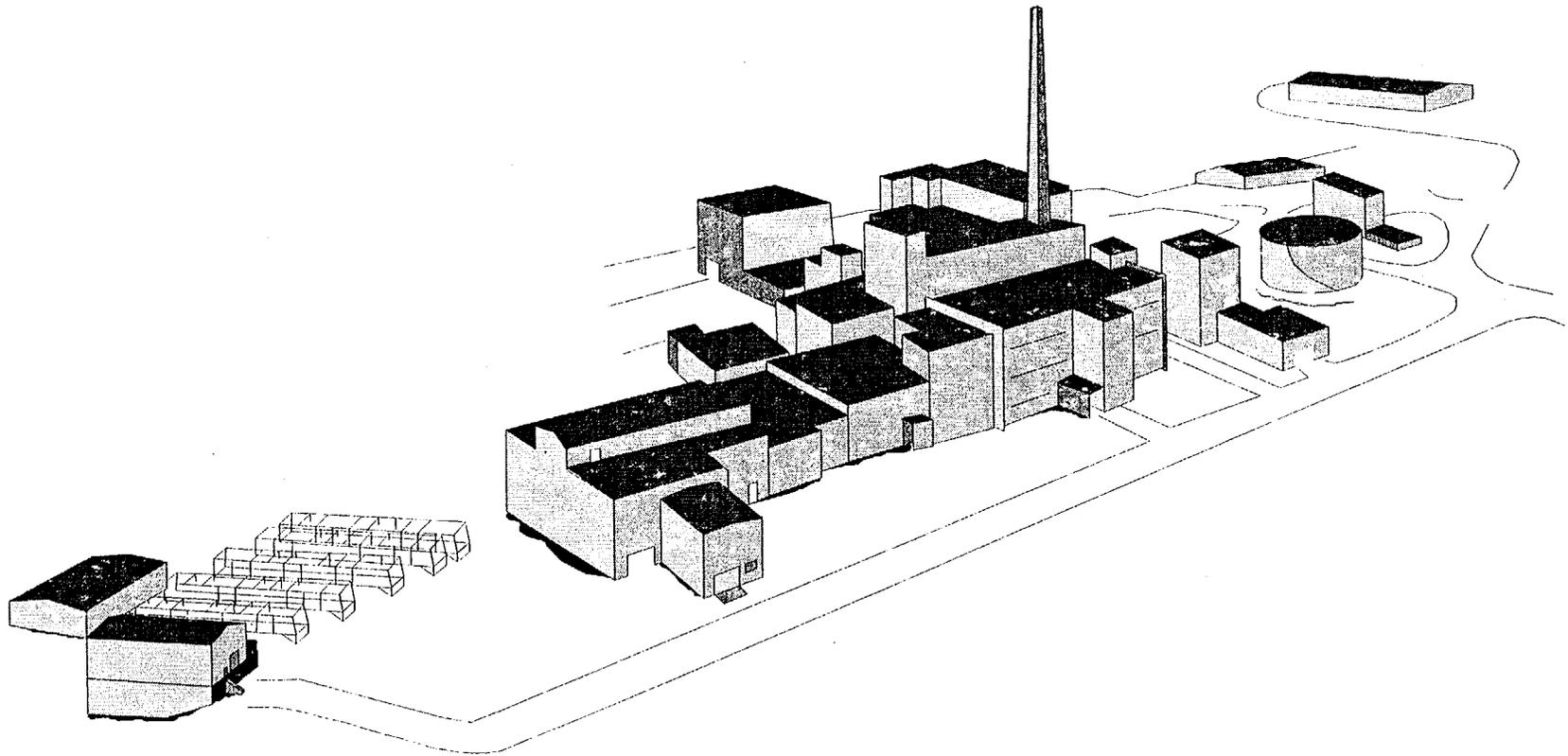
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LMM:041- 67503 - 237.2

LMM/brb



# West Valley Demonstration Project Progress Report August 1999



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

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## PROGRESS REPORT

Report No. 202  
Reporting Period: August 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 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 WNYSC 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 HLW Melter is currently in idle mode with the 242<sup>nd</sup> canister, the 13<sup>th</sup> in fiscal year 1999, under the melter pour spout (Ohio Strategic Plan Management Commitment Milestone #34e is for the production of 15 HLW Canisters in FY99). There are 238 canisters stored in the High Level Waste Interim Storage Facility and an additional 3 stored in the melter turntable for a total of 241 canisters produced as of the end of August 1999 (Ohio Strategic Plan Management Commitment Milestone #34f is for the storage of 244 HLW Canisters by the end of FY1999). The average canister fill height for FY1999 is 91.2%, 11.2% above Waste Acceptance Criteria (WAC) minimum requirement for disposal at the Federal Repository.

Progress continues toward HLW tank heel removal. Zeolite transfers from HLW tank 8D-1 to tank 8D-2 have resulted in a FY 1999 total of approximately 476,020 curies transferred. The Ohio Strategic Plan Management Commitment Milestone #21 is to transfer 400,000 curies of Cs-137 by Sept. 30, 1999 and was completed on July 23, 1999. Ohio Strategic Plan Management Commitment Milestone #22e is to transfer 500,000 curies from HLW Tank 8D-2 to the Vit Facility by Sept. 30, 1999. To date, over 350,000 curies of Cs-137 and Sr-90 have been transferred from HLW Tank 8D-2 to a holding tank in the Vitrification Facility during FY 1999.

The Ohio Strategic Plan Management Commitment Milestone #23 to ship off-site 15,000 cubic feet (425 cubic Meters) of Class A Low Level Waste for disposal by Sept 30, 1999 was completed on May 6, 1999. Thirty-three waste shipments with a cumulative total of 31,976 cubic feet (905 cubic meters) have been shipped to-date in FY1999. To accomplish the stretch goal of 35,000 cubic feet shipped for disposal in FY1999, additional shipments have been scheduled through the end of the fiscal year.

SAIC, WVNS, DOE and NYSERDA are reviewing comments received from NYSDEC and preliminary comments received from the U.S. Army Corps on the inputs and approach presented by SAIC in the Evolution Landscape Model. Comments from the NRC were discussed with NRC and their contractors on August 17, 1999. In general NRC believes the Siberia model and analysis prepared by SAIC is suitable for the WVDP site if enhancements can be made to the model to simulate discrete hypothetical storm events. SAIC is evaluating the effort to make such changes. NRC is expected to provide their written comments soon.

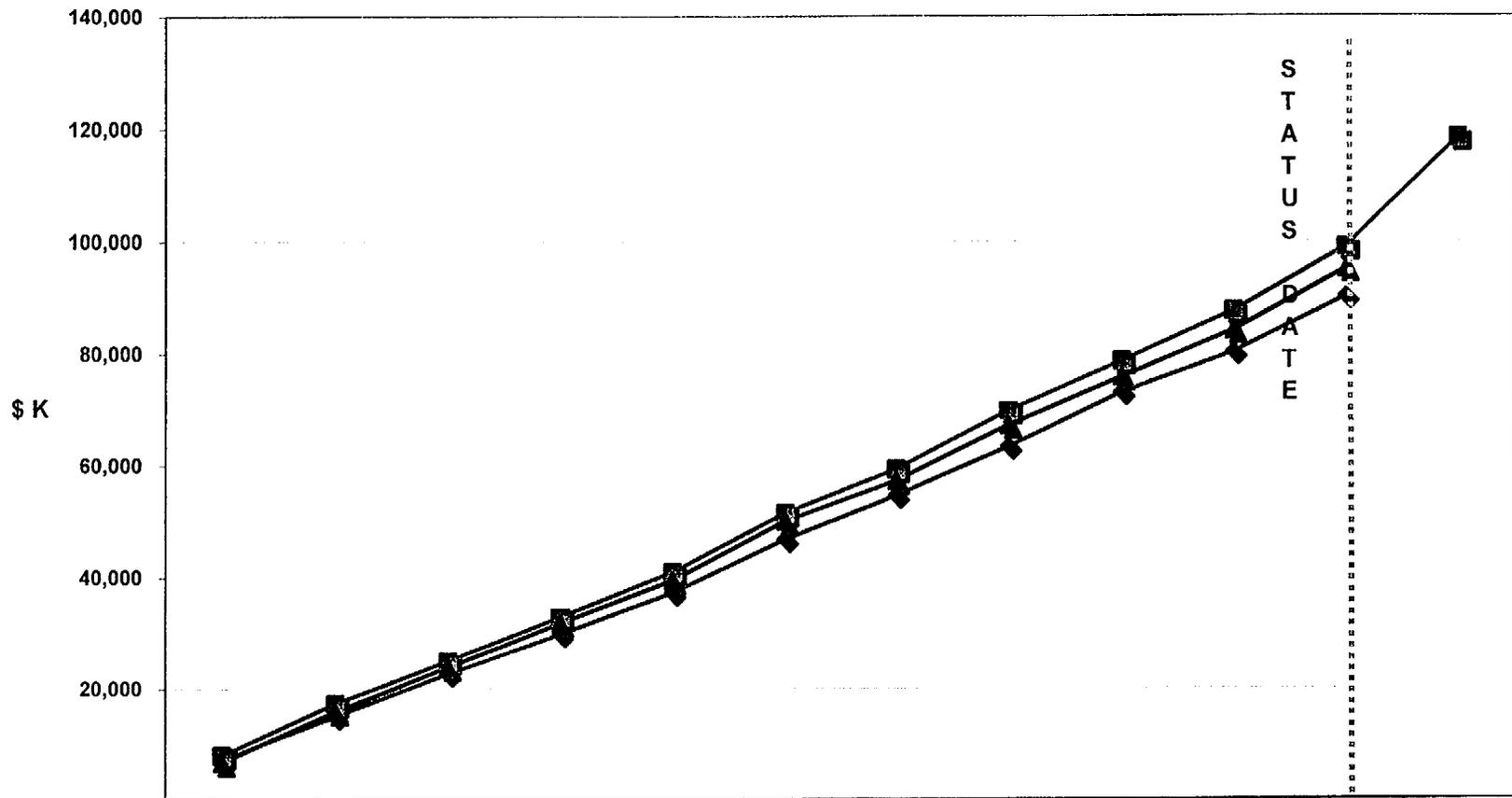
U.S. Department of Energy West Valley Demonstration Project (OH/WVDP) and the DOE Ohio Field Office have completed their review of the WVNS Voluntary Protection Plan (VPP) application. Comments were submitted to the contractor on August 26, 1999. The final application will be transmitted to the Ohio Field Office for forwarding to DOE Headquarters. A DOE VPP team on-site review is expected in early October 1999.

#### Assessment/Actions

The Project had no appreciable schedule or cost variance through August, 1999.

Performance to date for FY 1999 is 84% of work planned, 80% of work performed and 76% costed.

1 - WEST VALLEY DEMONSTRATION PROJECT



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
◆ ACTUAL	7,096	14,925	22,787	29,932	37,335	46,797	54,588	63,348	73,083	80,280	90,225	
■ BUDGET	7,907	17,274	25,116	32,996	40,982	51,479	59,317	69,866	78,711	87,646	99,032	118,347
▲ PERFORMANCE	6,673	15,756	23,999	31,879	39,482	50,068	57,243	67,239	75,873	84,181	95,148	
SCHED VAR	(1,234)	(1,519)	(1,118)	(1,117)	(1,500)	(1,412)	(2,074)	(2,628)	(2,839)	(3,464)	(3,884)	
COST VAR	(423)	830	1,212	1,947	2,147	3,270	2,654	3,891	2,790	3,901	4,923	
SPI	0.84	0.91	0.96	0.97	0.96	0.97	0.97	0.96	0.96	0.96	0.96	
CPI	0.94	1.06	1.05	1.07	1.06	1.07	1.05	1.06	1.04	1.05	1.05	

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### 1.1 High-Level Waste

#### Accomplishments/Status

The HLW Melter is currently in idle mode with the 242<sup>nd</sup> canister, the 13<sup>th</sup> in fiscal year 1999, under the melter pour spout (Ohio Strategic Plan Management Commitment Milestone #34e is for the production of 15 HLW Canisters in FY99). There are 238 canisters stored in the High Level Waste Interim Storage Facility and an additional 3 stored in the melter turntable for a total of 241 canisters produced as of the end of August 1999 (Ohio Strategic Plan Management Commitment Milestone #34f is for the storage of 244 HLW Canisters by the end of FY1999). The average canister fill height for FY1999 is 91.2%, 11.2% above Waste Acceptance Criteria (WAC) minimum requirement for disposal at the Federal Repository.

Progress continues toward HLW tank heel removal. Zeolite transfers from HLW tank 8D-1 to tank 8D-2 have resulted in a FY 1999 total of approximately 476,020 curies transferred. The Ohio Strategic Plan Management Commitment Milestone #21 is to transfer 400,000 curies of Cs-137 by Sept. 30, 1999 and was completed on July 23, 1999. Ohio Strategic Plan Management Commitment Milestone #22e is to transfer 500,000 curies from HLW Tank 8D-2 to the Vit Facility by Sept. 30, 1999. To date, over 350,000 curies of Cs-137 and Sr-90 have been transferred from HLW Tank 8D-2 to a holding tank in the Vitrification Facility during FY 1999.

An off-normal event occurred during Vitrification Operations on August 10, 1999, when radioactive liquid backed into the steam lines in the operating aisles. There was no spill of radioactive liquid, and no exposure limits were exceeded. Both West Valley Nuclear Services and U.S. Department of Energy are investigating this event.

The report estimating the remaining radionuclides in Tank 8D-1 has been issued to meet the August 31, 1999 milestone. Analyses of selected samples from Tank 8D-2 are continuing along with samples from Tank 8D-1, the results of which will be discussed in the September 1999 milestone report.

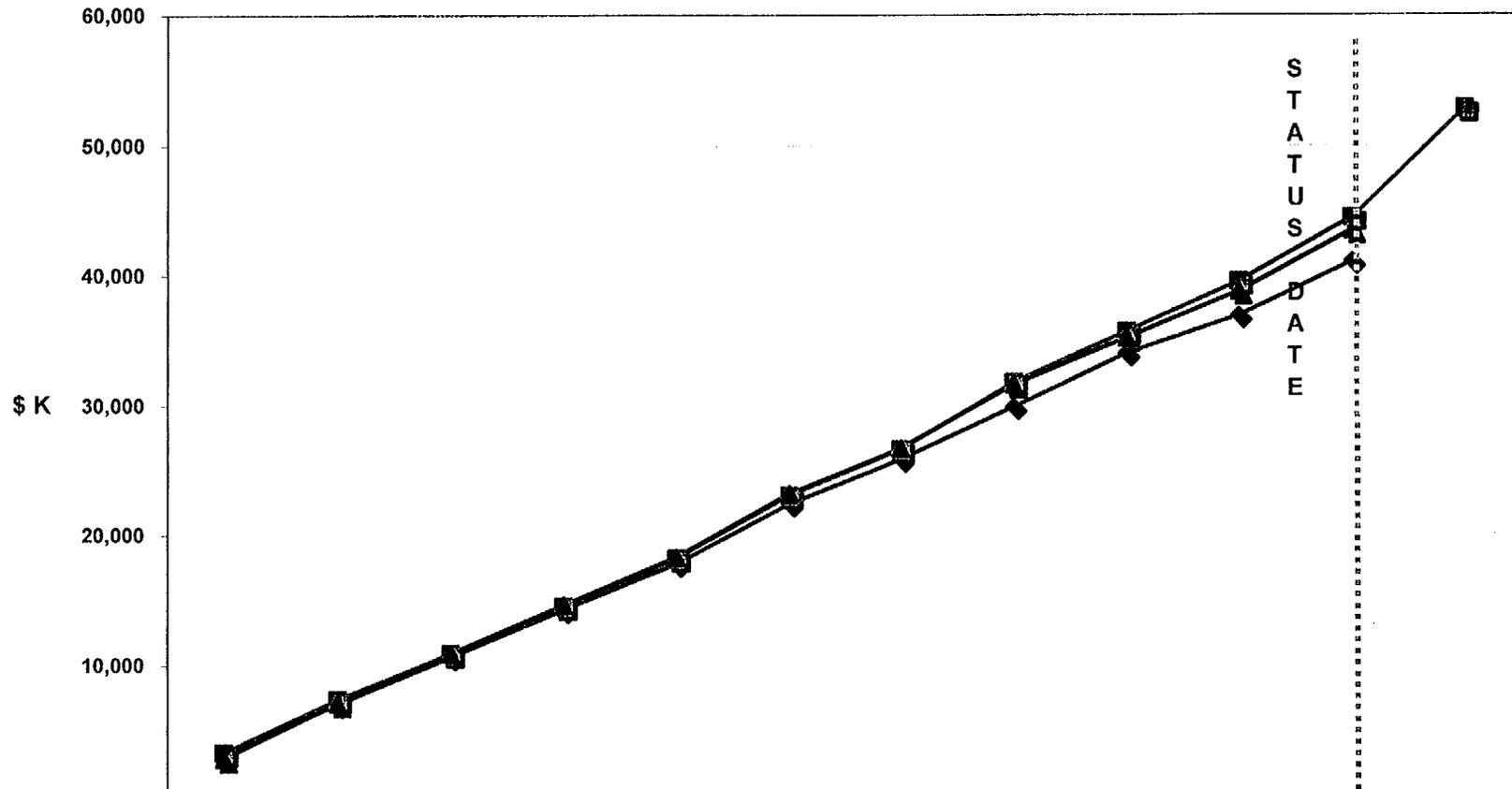
The initial submittals from Hot Cells Services for the refurbishment of the B and C shield windows in the Process Mechanical Cell and the hot oil flush of the B window in the General Purpose Cell were received and are in review. The design of the containment tent is complete and the order placed with Custom Canvas.

#### Assessment/Actions

High Level Waste incurred no appreciable schedule or cost variance through August, 1999.

Performance to date for FY 1999 is 84% of work planned, 82% of work performed and 78% costed.

101 - HIGH-LEVEL WASTE (HLW)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
◆ ACTUAL	3,315	6,981	10,656	14,274	17,788	22,412	25,853	29,936	34,055	36,923	41,076	
■ BUDGET	3,332	7,390	10,932	14,555	18,225	23,067	26,641	31,850	35,717	39,572	44,497	52,831
▲ PERFORMANCE	2,919	7,105	10,926	14,636	18,309	23,193	26,699	31,671	35,229	38,795	43,507	
SCHED VAR	(413)	(285)	(6)	81	84	126	58	(178)	(488)	(777)	(990)	
COST VAR	(395)	124	270	362	521	781	846	1,736	1,174	1,872	2,431	
SPI	0.88	0.96	1.00	1.01	1.00	1.01	1.00	0.99	0.99	0.98	0.98	
CPI	0.88	1.02	1.03	1.03	1.03	1.03	1.03	1.06	1.03	1.05	1.06	

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### 1.2 Waste Disposition

#### Accomplishments/Status

The Ohio Strategic Plan Management Commitment Milestone #23 to ship off-site 15,000 cubic feet (425 cubic Meters) of Class A Low Level Waste for disposal by Sept 30, 1999 was completed on May 6, 1999. Thirty-three waste shipments with a cumulative total of 31,976 cubic feet (905 cubic meters) have been completed to-date in FY1999. To accomplish the stretch goal of 35,000 cubic feet shipped for disposal in FY1999, additional shipments have been scheduled through the end of the fiscal year.

Transnuclear, Inc. (TN) has completed the bounding criticality, containment, and structural analyses for full loads with damaged fuel. All results for full loads are acceptable; however, 12 REG assemblies would require poison rods if the NRC allows 90% credit for the boron content of the borated stainless steel basket. Peripheral inserts may be required in the TN-REG cask.

The Buffalo and Pittsburgh Railroad (B&P RR) proposal for rail service was received on August 13, 1999. Comments on the proposal for rail service from WVDP to Machias were provided to Procurement. The request for Proposal for refurbishment of the 1.8 mile rail spur has been issued, and a pre-bid meeting was held on August 25, 1999.

A communication plan, in preparation for shipping spent nuclear fuel in 2001, is being developed. The plan includes meeting with state officials along the shipping route and management of inquiries.

A revised Transportation Plan was submitted by LMITCO on August 19, 1999, and approved by WVNS on August 28, 1999 which completes the requirements of Level 2 Milestone #10176.

Purchasing has completed their evaluation of firm fixed price proposals for design and construction of the Remote Handled Waste Facility and the necessary documentation was transmitted to OH/WVDP for approval. Remote Handled Waste Facility (RHWF) Value Engineering (VE) design modifications are being implemented based upon the VE study results. These modifications include changing the Receiving Area / Buffer Cell bridge crane to a commercial grade radio controlled model, modifying the shield door and air control door designs and incorporating changes in the HVAC system design.

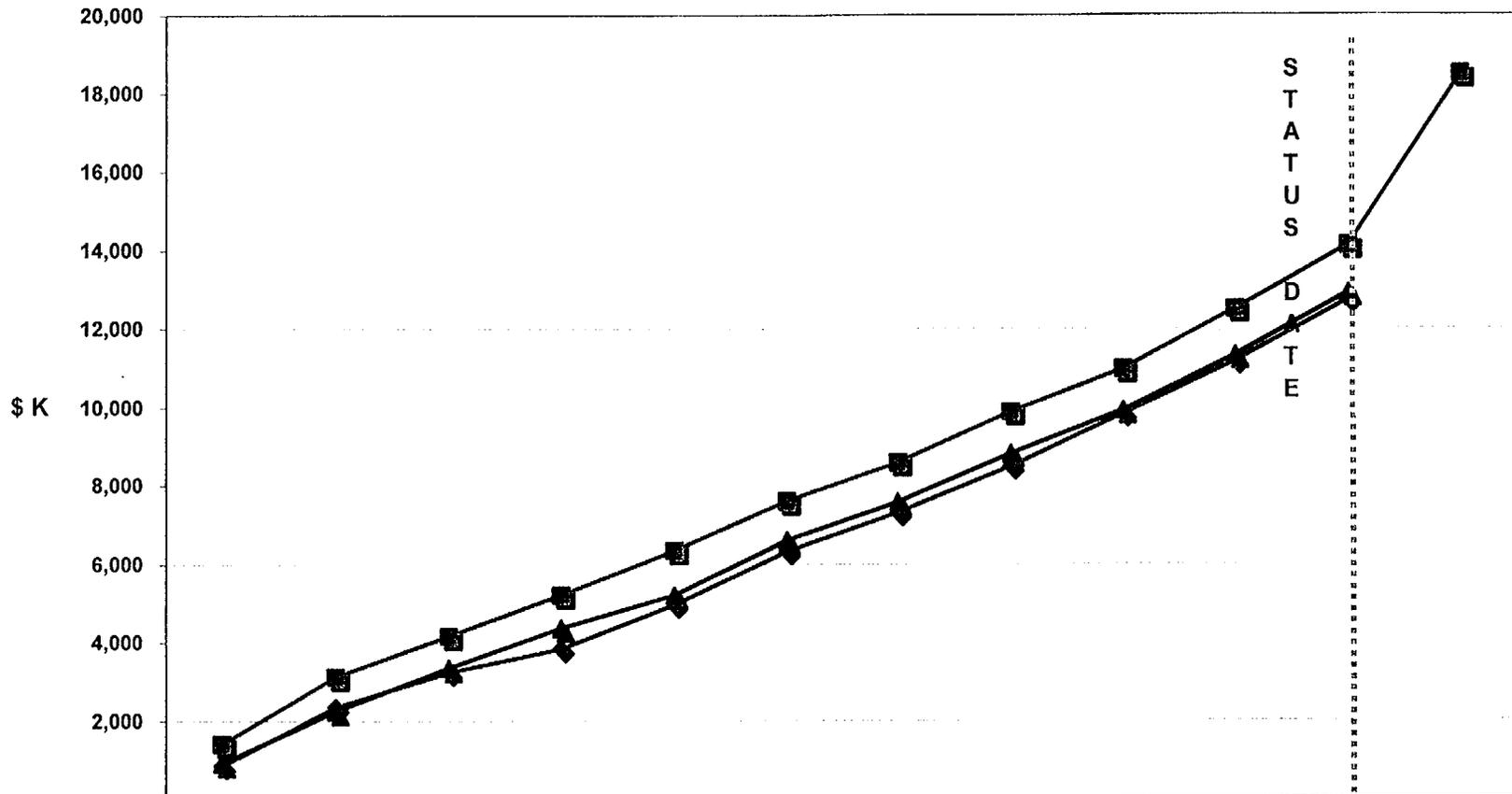
#### Assessment/Actions

The negative schedule variance was unchanged in August, 1999. The cumulative schedule variance remains due to nonimpacting schedule delay in spent fuel shipping preparations, as well as less than planned hazardous, industrial and sanitary waste shipping to date.

There was no appreciable cost variance through August, 1999.

Performance to date for FY 1999 is 76% of work planned, 70% of work performed and 69% costed.

102 - WASTE DISPOSITION



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
◆ ACTUAL	857	2,357	3,225	3,828	4,967	6,327	7,307	8,474	9,835	11,172	12,726	
■ BUDGET	1,421	3,122	4,162	5,217	6,348	7,591	8,580	9,894	10,983	12,496	14,111	18,473
▲ PERFORMANCE	932	2,254	3,342	4,364	5,215	6,609	7,574	8,812	9,935	11,324	12,910	
SCHED VAR	(489)	(868)	(820)	(852)	(1,134)	(982)	(1,006)	(1,082)	(1,049)	(1,172)	(1,201)	
COST VAR	75	(103)	116	536	248	282	267	337	100	151	184	
SPI	0.66	0.72	0.80	0.84	0.82	0.87	0.88	0.89	0.90	0.91	0.91	
CPI	1.09	0.96	1.04	1.14	1.05	1.04	1.04	1.04	1.01	1.01	1.01	

## **NARRATIVE HIGHLIGHTS AND ASSESSMENT**

### **1.3 Site Disposition/Footprint Reduction**

#### **Accomplishments/Status**

The sheet piling for the Permeable Barrier Wall has been installed. The Dewatering system awaits submittal approvals before being started. A media event was held on August 23, 1999 to communicate how the wall operates, and Congressman Jack Quinn was briefed regarding the wall construction and operation on August 30, 1999.

SAIC, WVNS, DOE and NYSEDA are reviewing comments received from NYSDEC and preliminary comments received from the U.S. Army Corps on the inputs and approach presented by SAIC in the Evolution Landscape Model. Comments from the NRC were discussed with NRC and their contractors on August 17, 1999. In general NRC believes the Siberia model and analysis prepared by SAIC is suitable for the WVDP site if enhancements can be made to the model to simulate discrete hypothetical storm events. SAIC is evaluating the effort to make such changes. NRC is expected to provide their written comments soon.

The bench scale testing plan has been completed for demonstrating reversibility of the grout being considered for use in stabilizing the HLW tanks and Process Building under an Alternative III scenario. A demonstration of its applicability is scheduled for September 1999.

DOE and NYSEDA met with NRC on August 12, 1999 to discuss NRC resources available to support the EIS development and associated NEPA process. NRC indicated their role in the NEPA process is one of "consult and review and not that of approval." They also indicated that their legal counsel is evaluating NRC's own NEPA requirements. NRC requested that DOE provide specific schedule information regarding deliverables and resource requirements needed from NRC to support the EIS development process.

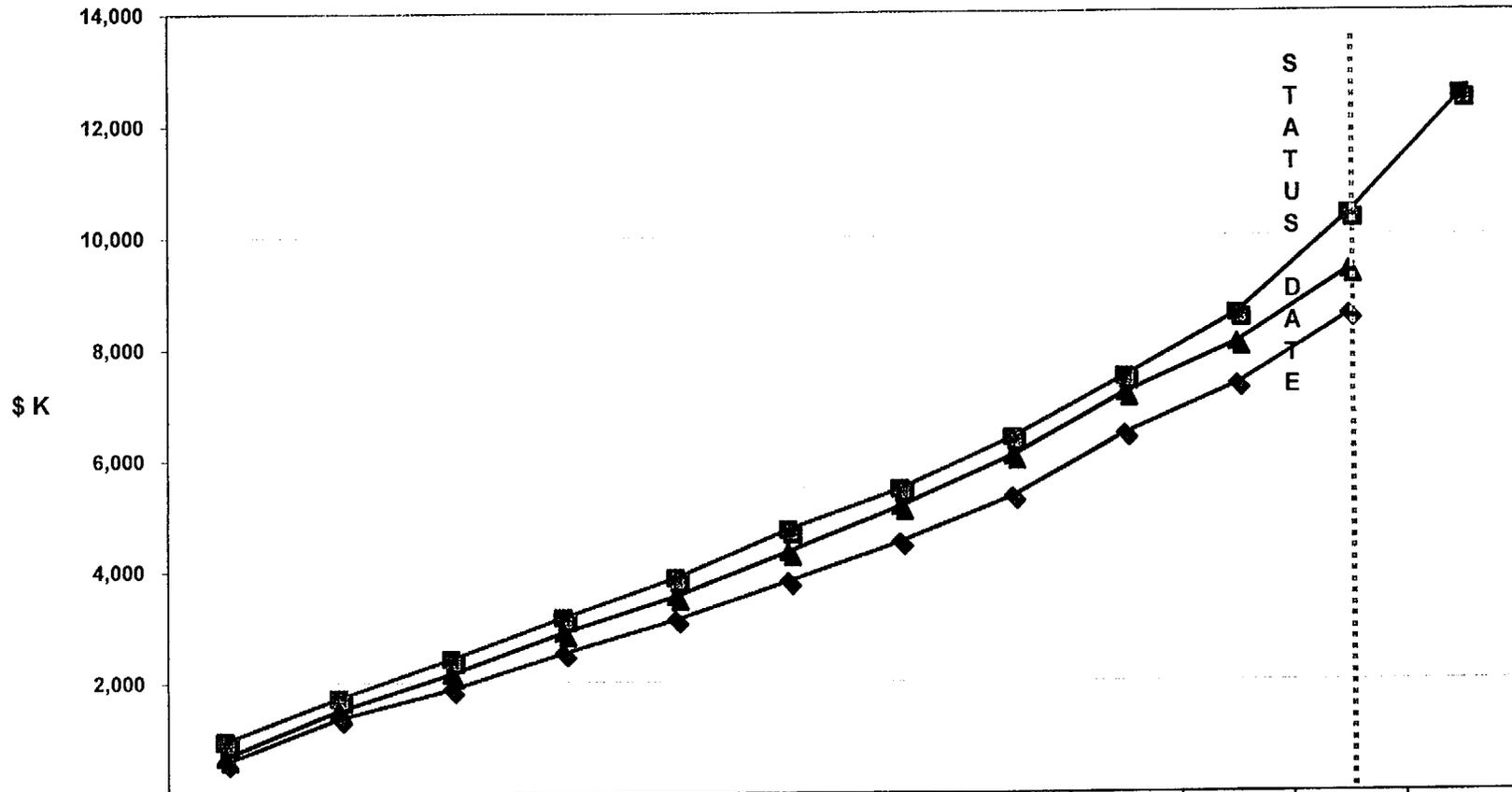
#### **Assessment/Actions**

The negative schedule variance increased in August, 1999. The cumulative variance is due to delays in development of the EIS, completion of small site projects and main plant roof repair activities. All are nonimpacting to the Project baseline.

A positive cost variance increased slightly in August, 1999.

Performance to date for FY 1999 is 83% of work planned, 75% of work performed and 69% costed.

103 - SITE DISPOSITION/FOOTPRINT REDUCTION



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
◆ ACTUAL	565	1,348	1,876	2,519	3,125	3,804	4,507	5,314	6,453	7,338	8,585	
■ BUDGET	937	1,721	2,422	3,165	3,870	4,731	5,458	6,389	7,481	8,611	10,382	12,505
▲ PERFORMANCE	663	1,499	2,156	2,895	3,548	4,332	5,144	6,054	7,181	8,094	9,380	
SCHED VAR	(274)	(222)	(266)	(270)	(322)	(399)	(315)	(335)	(300)	(517)	(1,002)	
COST VAR	98	151	280	376	422	528	636	740	729	756	795	
SPI	0.71	0.87	0.89	0.91	0.92	0.92	0.94	0.95	0.96	0.94	0.90	
CPI	1.17	1.11	1.15	1.15	1.14	1.14	1.14	1.14	1.11	1.10	1.09	

## **NARRATIVE HIGHLIGHTS AND ASSESSMENT**

### **1.4 Site Support/Administration**

#### **Accomplishments/Status**

U.S. Department of Energy West Valley Demonstration Project (OH/WVDP) and the DOE Ohio Field Office have completed their review of the WVNS Voluntary Protection Plan (VPP) application. Comments were submitted to the contractor on August 26, 1999. The final application will be transmitted to the Ohio Field Office for forwarding to DOE Headquarters. A DOE VPP team on-site review is expected in early October 1999.

The WVDP celebrated attainment of One Million Safe Work Hours (hours without a lost workday case) on August 31, 1999.

The next Citizen Task Force meeting is scheduled for September 21, 1999, and will focus on institutional controls that may be applied at the WVDP following site closure. A guest speaker from the DOE Grand Junction Office is scheduled to present DOE's experiences throughout the Complex to date on this topic.

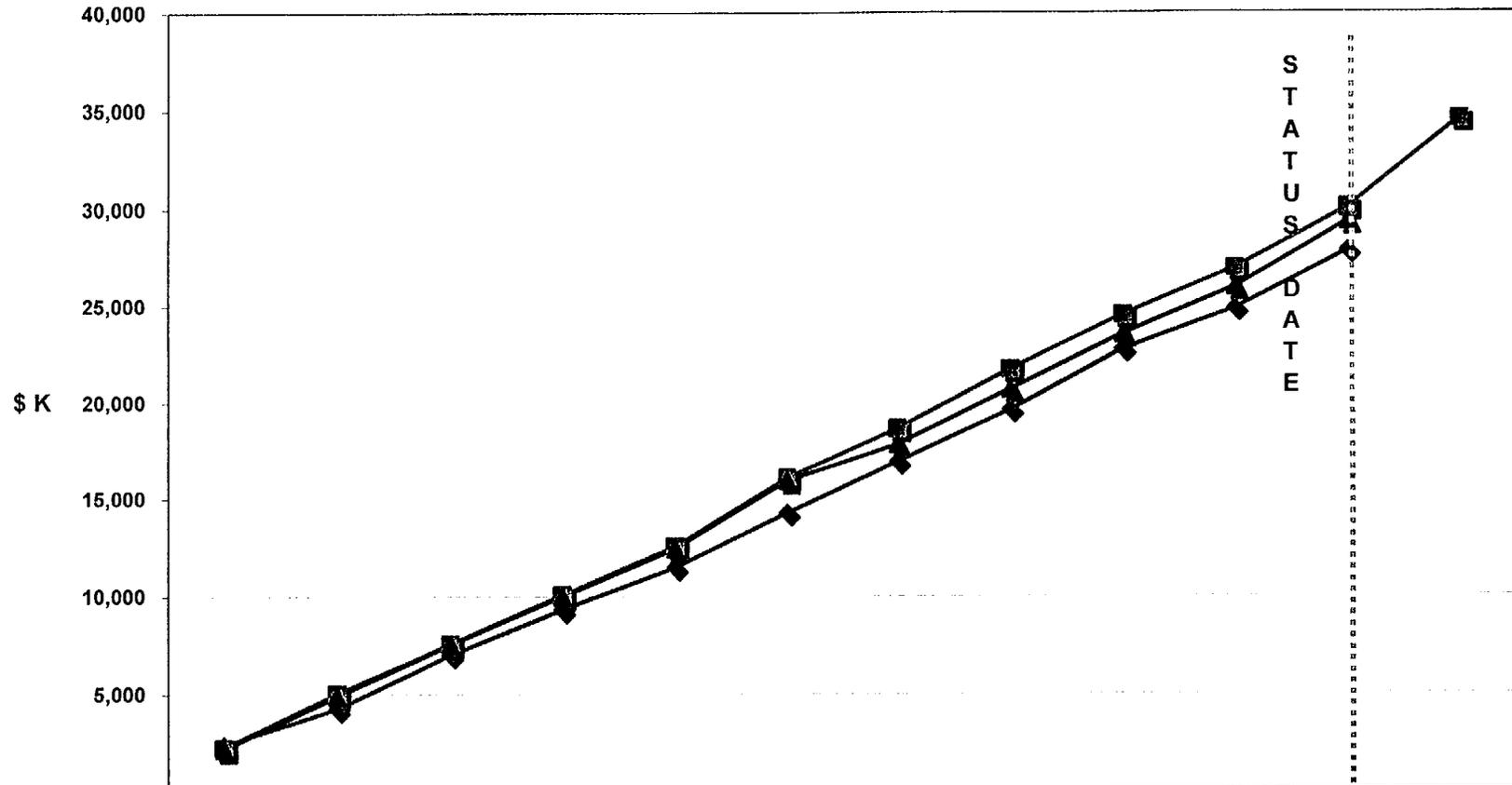
There were zero reportable nasal, internal, clothing, or skin contamination events in August. Five OSHA-recordable incidents occurred during August, making the WVDP's year-to-date Total Recordable Case Rate (TRC) 2.07.

#### **Assessment/Actions**

Site Support / Administration has incurred no appreciable cost or schedule variance through August, 1999.

Performance to date for FY 1999 is 87% of work planned, 85% of work performed and 81% costed.

104 - SITE SUPPORT/ADMINISTRATION



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
◆ ACTUAL	2,360	4,239	7,030	9,311	11,455	14,254	16,920	19,624	22,740	24,847	27,838	
■ BUDGET	2,217	5,041	7,600	10,060	12,539	16,090	18,637	21,734	24,529	26,967	30,042	34,538
▲ PERFORMANCE	2,159	4,897	7,575	9,984	12,410	15,934	17,826	20,702	23,527	25,968	29,352	
SCHED VAR	(58)	(144)	(25)	(76)	(129)	(156)	(811)	(1,032)	(1,002)	(998)	(691)	
COST VAR	(201)	658	545	673	956	1,679	905	1,078	787	1,121	1,514	
SPI	0.97	0.97	1.00	0.99	0.99	0.99	0.96	0.95	0.96	0.96	0.98	
CPI	0.91	1.16	1.08	1.07	1.08	1.12	1.05	1.05	1.03	1.05	1.05	

**ADMINISTRATIVE**

Project personnel as of August 31, 1999:

	<u>Mgt</u>	<u>Prof</u>	<u>NE</u>	<u>Hourly</u>	<u>Total</u>
WVNS On Board <sup>1</sup>	107	339	193	174	813
Contract Guard	0	0	0	25	25
Dames and Moore <sup>2</sup>	8	33	0	0	41
<b>Project Total:</b>	<u>115</u>	<u>372</u>	<u>193</u>	<u>199</u>	<u>879</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)	12	44	11	13	80
Female (Included in WVNS Total)	15	71	123	23	232

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

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

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

**Accomplishments/Status**

The final amounts pertaining to the New York State Sales and Use Tax audit for the period of October, 1985 through February, 1990 were negotiated with the New York State Department of Taxation and Finance. The total amount of alleged tax due with interest is \$844,535.80 calculated through March 5, 1999. Of that amount during the course of the hearings, WVNS conceded that tax was due in the amount of \$1,359.49. The remaining \$843,076.31 was deposited with the New York Department of Taxation and Finance in order to appeal the Sale for Resale issue. The larger implication of this appeal is the period after February, 1990, which is still subject to audit. If the appeal is successful, the amount of tax and interest owed may be minimal. If the appeal is unsuccessful, based on audit findings, the liability may range from \$17M to \$39M. It is possible that a payment schedule could be worked out with the tax department.

BUDGET PLAN - TOTAL PROJECT COST ESTIMATE (TPCE)

August FY1999

Project Budget	Prior	FY 1999	FY 2000-2015	Total
PBS 1 High-Level Waste Processing	-	46,984	127,970	174,954
PBS 2 Transition & Project Completion	-	33,985	1,218,726	1,252,711
PBS 3 Spent Nuclear Fuel	-	2,840	15,276	18,116
PBS 4 Project Management & Support	-	34,538	487,582	522,120
Prior - WBS	1,309,451			1,309,451
Escalation	-	-	352,331	352,331
PMB Line	1,309,451	118,347	2,201,885	3,629,683
WVNS Mgmt. Reserve	-	1,585	-	1,585
<b>Contract Budget Base</b>	<b>1,309,451</b>	<b>119,932</b>	<b>2,201,885</b>	<b>3,631,268</b>
Deobs to Other Sites	63,886	3,616	-	67,502
IWOs to Other Sites	-	2,400	-	2,400
Fee/Expense/Credit	139,446	11,775	-	151,221
DOE Mgmt. Reserve	-	2,898	-	2,898
Relocation	1,179	-	-	1,179
<b>TOTAL TPCE (YOE)</b>	<b>1,513,962</b>	<b>140,621</b>	<b>2,201,885</b>	<b>3,856,468</b>
Project Funding Sources	Prior	FY 1999	FY 2000-2015	Total
Dept. of Energy YOE (PBS 1-4)	1,360,495	107,224	1,983,296	3,451,015
Dept. of Energy YOE (OTHER)	-	1,229	-	1,229
Dept. of Energy C/O	18,456	-	-	18,456
N.Y. State Funding	117,102	10,376	218,589	346,067
Supplem'I NYS (17% EIS)	4,259	648	-	4,907
Uncosted NYS Funding	1,923	-	-	1,923
NYS Credit/Serv	32,106	1,241	-	33,347
<b>TOTAL PROJECT (YOE)</b>	<b>1,534,341</b>	<b>120,718</b>	<b>2,201,885</b>	<b>3,856,944</b>

Notes:

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

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%) except for Fuel - Doe (100%) and an additional (17%) on EIS costs

COST PERFORMANCE REPORT - WORK BREAKDOWN STRUCTURE

August FY1999

WBS ITEM	CURRENT PERIOD					FISCAL YEAR-TO-DATE					FY 1999 BAC
	BCWS Sched	BCWP Complete	ACWP Spent	SV Sched	CV Cost	BCWS Sched	BCWP Complete	ACWP Spent	SV Sched	CV Cost	
101 High-Level Waste	4,925	4,712	4,153	(213)	559	44,497	43,507	41,076	(990)	2,431	52,831
102 Waste Disposition	1,615	1,586	1,553	(29)	33	14,111	12,910	12,726	(1,201)	184	18,473
103 Site Disposition & Footprint Reduction	1,771	1,286	1,247	(485)	39	10,382	9,380	8,585	(1,002)	795	12,505
104 Site Support & Administration	3,076	3,384	2,991	308	393	30,042	29,352	27,838	(690)	1,514	34,538
PMB	11,387	10,968	9,944	(419)	1,024	99,032	95,149	90,225	(3,883)	4,924	118,347
WVNS MR	-	-	-	-	-	-	-	-	-	-	1,585
<b>TOTAL WVNS</b>	<b>11,387</b>	<b>10,968</b>	<b>9,944</b>	<b>(419)</b>	<b>1,024</b>	<b>99,032</b>	<b>95,149</b>	<b>90,225</b>	<b>(3,883)</b>	<b>4,924</b>	<b>119,932</b>
Deobligations/Expense	70	70	70	-	-	2,071	2,071	2,071	-	-	3,616
IWOs	45	45	45	-	-	1,219	1,219	1,219	-	-	2,400
Fee/Credit	1,418	1,418	1,418	-	-	9,947	9,947	9,947	-	-	11,775
Non Project	2	2	2	-	-	18	18	18	-	-	-
DOE MR	-	-	-	-	-	-	-	-	-	-	2,898
<b>FY 1999 TOTAL WVDP</b>	<b>12,922</b>	<b>12,503</b>	<b>11,479</b>	<b>(419)</b>	<b>1,024</b>	<b>112,287</b>	<b>108,404</b>	<b>103,480</b>	<b>(3,883)</b>	<b>4,924</b>	<b>140,621</b>

Notes:

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

TOTAL OUTYEAR BUDGET AND FUNDING

August FY1999

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
<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>

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
<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>

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
<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>

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
<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%) except for Fuel - Doe (100%) and an additional (17%) on EIS costs



WEST VALLEY DEMONSTRATION PROJECT FINANCIAL REPORT  
FISCAL YEAR 1999

Contract Number: DE-AC24-81NE44139

Dollars expressed in thousands.

Reporting Period:  
August 1999

WBS Description	Prior Years Uncosted (C/O)	FY 1999 Funding to Date	Obligations Available to Date	FY 1999 Planned Budget **	FY 1999 Costs to Date	Outstanding Commitments to Date	Budget Planned to Date
101 High Level Waste	5,334	37,032	42,366	47,341	37,259	5,107	40,273
102 Waste Disposition	2,901	12,949	15,850	16,553	11,925	3,925	12,771
103 Site Disposition/Footprint Reduction	1,189	8,259	9,448	10,557	4,940	4,508	9,054
104 Site Support/Administration	3,487	24,211	27,698	30,949	26,149	1,549	27,190
Contingencies and Reserves	1,585	3,507	5,092	4,483	0	0	0
Fee	3,013	9,211	12,224	11,775	7,867	0	7,867
<b>SUBTOTAL DOE FUNDING</b>	<b>17,509</b>	<b>95,167</b>	<b>112,678</b>	<b>121,658</b>	<b>88,140</b>	<b>15,089</b>	<b>97,156</b>
Internal Work Orders (IWOs)	0	1,596	2,410	2,410	1,219	1,191	1,219
Other Ohio Office Obligations	86	637	723	723	723	0	723
<b>TOTAL OHIO OFFICE</b>	<b>17,595</b>	<b>97,400 **</b>	<b>115,811</b>	<b>124,791</b>	<b>90,082</b>	<b>16,280</b>	<b>99,098</b>
<b>TOTAL DOE OBLIGATIONS ***</b>	<b>3,775</b>	<b>(1,921)</b>	<b>1,854</b>	<b>1,926</b>	<b>1,348</b>	<b>1,315</b>	<b>1,348</b>
<b>EX05 PROJECT OBLIGATED FUNDS</b>	<b>21,370</b>	<b>95,479</b>	<b>116,849</b>	<b>126,717</b>	<b>91,430</b>	<b>17,595</b>	<b>100,446</b>
Unobligated Funds:	0	11,874	11,874	0	0	0	0
<b>TOTAL EX05 PROJECT FUNDING FY99:</b>	<b>21,370</b>	<b>107,353</b>	<b>128,723</b>	<b>126,717</b>	<b>91,430</b>	<b>17,595</b>	<b>100,446</b>
Non EX-05 Funding	0	1,202	1,202	1,202	1,267	0	1,202
<b>TOTAL DOE</b>	<b>21,370</b>	<b>108,555</b>	<b>129,925</b>	<b>127,919</b>	<b>92,697</b>	<b>17,595</b>	<b>101,648</b>
NYSERDA NE Project (SDA Share)	0	0	0	0	0	0	0
NYSERDA NE Proj. (EIS Share) + Fee	0	648	648	648	220	428	220
NYSERDA NS Project + Fee	1,923	10,376	12,299	12,299	9,401	2,898	9,401
NYSERDA Credit	0	1,241	1,241	1,241	1,142	99	1,142
NYSERDA NY Non-Project + Fee	0	0	0	0	18	0	18
<b>TOTAL WVDP:</b>	<b>23,293</b>	<b>120,820</b>	<b>144,113</b>	<b>142,107</b>	<b>103,478</b>	<b>21,020</b>	<b>112,429</b>

\*\* BCWS is planned based upon \$107.3M FY99 DOE funding plus \$18.7M prior years uncosted DOE funds.

\*\*\* See next page for individual breakdown of DOE obligations and IWOs.

**WEST VALLEY DEMONSTRATION PROJECT FINANCIAL REPORT  
FISCAL YEAR 1999**

DOE Obligations / IWO / Non EX05 Funding Breakout

Reporting Period:  
August 1999

Contract Number: DE-AC24-81NE44139

Dollars expressed in thousands.

<b>DOE Obligations</b>	Prior Years Uncosted (C/O)	FY 1999 Funding to Date	Obligations Available to Date	FY 1999 Planned Budget **	FY 1999 Costs to Date	Outstanding Commitments to Date	Budget Planned to Date
DOE Obligation: Battelle PNNL (RL)	553	300	853	960	760	93	760
DOE Obligation: Fluor Daniel Hanford	23	(23)	0	23	0	0	0
DOE Obligation: Idaho (SAIC - EIS)	2	0	2	0	(73)	75	(73)
DOE Obligation: Savannah River	2,198	(2,198)	0	0	0	0	0
DOE Obligation: Ohio (SAIC)	580	0	580	580	522	867	522
DOE Obligation: Idaho	45	0	45	0	4	41	4
DOE Obligation: Rocky Flats (SAIC Non-EIS)	11	0	11	0	0	11	0
DOE Obligation: LIMITCO	363	0	363	363	135	228	135
<b>TOTAL DOE OBLIGATIONS</b>	<b>3,775</b>	<b>(1,921)</b>	<b>1,854</b>	<b>1,926</b>	<b>1,348</b>	<b>1,315</b>	<b>1,348</b>

**IWO Details**

IWO - FETC / Redzone (PBS 01 )	0	704	704	704	704	0	704
IWO - SR Mob Pump Tests (PBS 01 )	44	0	44	44	0	44	44
IWO - PL (PBS 01 )	1	767	768	768	0	768	768
IWO - ID/LMITCO SNF Program(PBS 03 )	706	125	831	831	518	313	831
IWO - OR Emergency Planning (PBS04 )	63	0	63	63	(3)	66	(3)
<b>TOTAL IWO OBLIGATIONS</b>	<b>814</b>	<b>1596</b>	<b>2410</b>	<b>2410</b>	<b>1219</b>	<b>1191</b>	<b>2344</b>

**Non EX 05 Funding**

SR work Authorization	0	19	19	19	0	19	19
Pollution Prevention	4	3	7	7	0	7	7
Y2K Compliance	0	702	702	702	798	(96)	702
ASTD Projects: VEMP	0	500	500	500	468	32	500
<b>Non EX05 Funding Total</b>	<b>4</b>	<b>1,224</b>	<b>1,228</b>	<b>1,228</b>	<b>1,266</b>	<b>(38)</b>	<b>1,228</b>

\*\* BCWS is planned based upon \$107.3M FY99 DOE funding plus \$18.7M prior years uncosted DOE funds.

West Valley Nuclear Services, Inc. - DOE Contract # NE44139  
 Monthly Earned Value Summary by PBS  
 Fiscal Year 1999

Reporting Period:  
August 1999

PBS #	Description	Current Period					Cumulative to Date				
		BCWS	BCWP	ACWP	Schedule Variance	Cost Variance	BCWS	BCWP	ACWP	Schedule Variance	Cost Variance
OHVV01	- HLW Vit & High Activ Proc	4,272	4,410	4,339	138	71	40,478	40,314	39,335	(164)	979
OHVV02	- Site Trans, Decm, & Prj Comp	3,641	2,824	3,128	(817)	(304)	25,086	22,494	19,256	(2,592)	3,238
OHVV03	- Spent Nuclear Fuel	226	255	295	29	(40)	1,680	1,550	2,001	(130)	(451)
OHVV04	- Project Mgmt/Site Support	3,021	3,299	3,060	278	239	29,416	28,793	28,784	(623)	9
Total DOE by PBS		11,160	10,788	10,822	(372)	(34)	96,661	93,152	89,377	(3,509)	3,775

## West Valley Demonstration Project 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	
#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	
#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	

### West Valley Demonstration Project 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	
		#10168 PBS02		ISSUE PREFERRED ALTERNATIVE/FINAL EIS	APR-00	
		#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	

## West Valley Demonstration Project 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	
		#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	

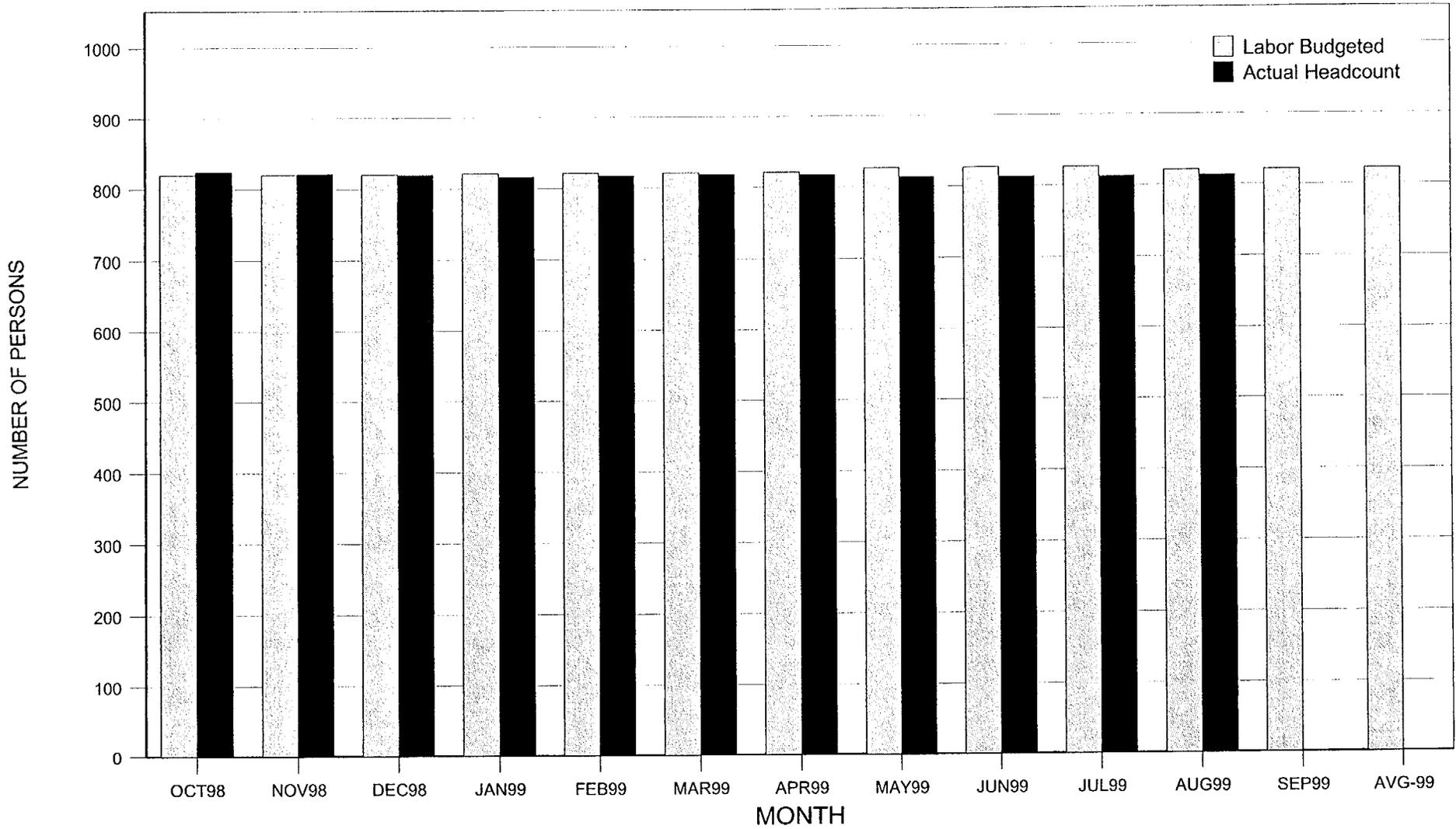
### West Valley Demonstration Project Milestone Listing

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	
			#10517 PBS01	XFER 400K CURIES OF CESIUM & STRONTIUM FROM HLW TNK 8D-1 TO TNK 8D-2	SEP-99	
			#10156 PBS01	XFER 500K CURIES OF CESIUM & STRONTIUM FROM TANK 8D-2 TO VIT FAC	SEP-99	

### West Valley Demonstration Project Milestone Listing

CONTROL LEVEL				MILESTONE DESCRIPTION	DATE	STATUS
Level 0 (AE)	Level 1 (PSO/FMO)	Level 2 (DOE-WV)	Level 3 (WVNS)			
			#10174 PBS02	SHIP OFFSITE UP TO 15K CU. FT. OF CLASS A LLW FOR DISPOSAL	SEP-99	Complete MAY 6, 1999
			#10177 PBS03	PREPARATION/APPROVALS FOR SNF SHIPMENTS	MAR-01	

## FY 1999 Labor Summary 31-August-99 WVNS Personnel



Labor Budgeted	820	820	820	821	821	821	821	826	826	826	821	821	822
Actual Headcount	824	821	819	816	817	818	817	813	813	812	813		

Excludes 18 Casuals