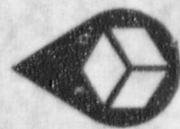
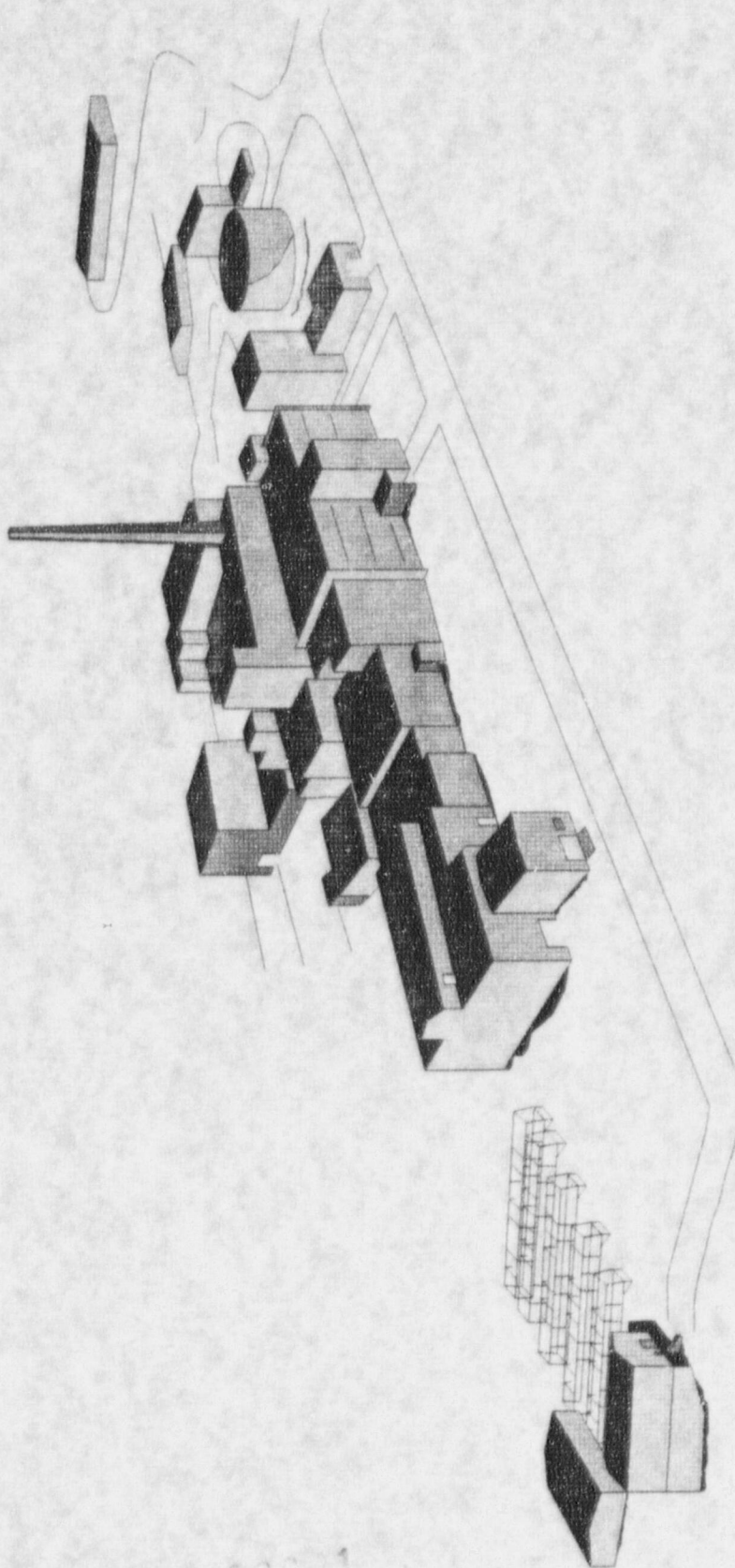


West Valley Demonstration Project  
Progress Report  
September 1997



m-32



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PDR PROJ  
M-32 FDR

NFD89/1

## PROGRESS REPORT

Report No. 179

Reporting Period: September 1997

### CONTRACT TITLE AND NUMBER:

West Valley Demonstration Project  
Operating Contract  
DE-AC24-81NE44139

### CONTRACTOR NAME:

West Valley Nuclear Services Company, Inc.  
10282 Rock Springs Road  
P. O. Box 191  
West Valley, New York 14171-0191

### CONTRACT PERIOD:

October 1, 1994 - September 30, 1999

**CONTRACT OBJECTIVE:** The purpose of the West Valley Demonstration Project is to demonstrate at the Western New York Nuclear Service Center (WNYNSC) the solidification and preparation of high-level radioactive waste for disposal. West Valley Nuclear Services Company, Inc. (WVNS), as DOE's management and operating contractor, will perform certain day-to-day activities at the existing WNYNSC site, maintain the existing facilities to DOE standards, and will plan, design, construct, and operate decontamination and decommissioning activities, and the solidification system in accordance with DOE's directives.

## **NARRATIVE HIGHLIGHTS AND ASSESSMENT**

### **Overall Assessment**

#### **Accomplishments/Status**

Vitrification operations continued to progress in September, both in operations and maintenance activities. Glass production continued with three HLW transfers from the WTF to Vitrification containing 655,160 curies of Cesium & Strontium, a total of 148 canisters have been filled, and 142 completed canisters have been located in the High Level Waste Interim Storage Racks. A melter system availability of greater than 78% has been achieved as of the end of September, 1997.

The Low-Level Waste Treatment Facility (LLWTF) resumed operation on September 1, 1997. The system is operating with the Ion-Exchange columns in series at a processing rate of 20 gallons of process water per minute. The North Plateau Pump and Treat Systems continues to operate at approximately eight to ten gallons per minute and has processed 8.3 million gallons of groundwater since November, 1995.

A site-wide Personnel Safety Exercise was held on September 17, 1997. The objectives were to successfully evacuate personnel and complete accountability. This was the first full-site evacuation since 1988. Personnel demonstrated sound knowledge of evacuation procedures.

Forty-three people attended the September 23, 1997 Quarterly Public Meeting at the Ashford Office Complex. The meeting featured presentations by DOE and New York State Energy Research and Development Authority (NYSERDA) attorneys regarding issues related to the agency's responsibilities for long-term site management.

On September 24, 1997, over 40 WVDP employees, West Valley Central and St. Aloysius Schools students, and their families joined together for a Mentoring Program Celebration to kickoff the Mentoring Program's fourth year. Six new, and thirteen former WVDP employees are participating in the program this year.

The Draft Environmental Impact Statement (DEIS) public comment period officially closed on September 22, 1996. All comments received have been made available for review in the public reading rooms. Science Application International Corporation (SAIC) is continuing the comment resolution process. In addition, they also have prepared and submitted "cost benefit" packages that compare the alternatives for each Waste Management Area (WMA). The Cost Benefit Packages for WMA 1, 2, 3, 4, 5, 7, 8, and 9 are currently under review by DOE and NYSERDA.

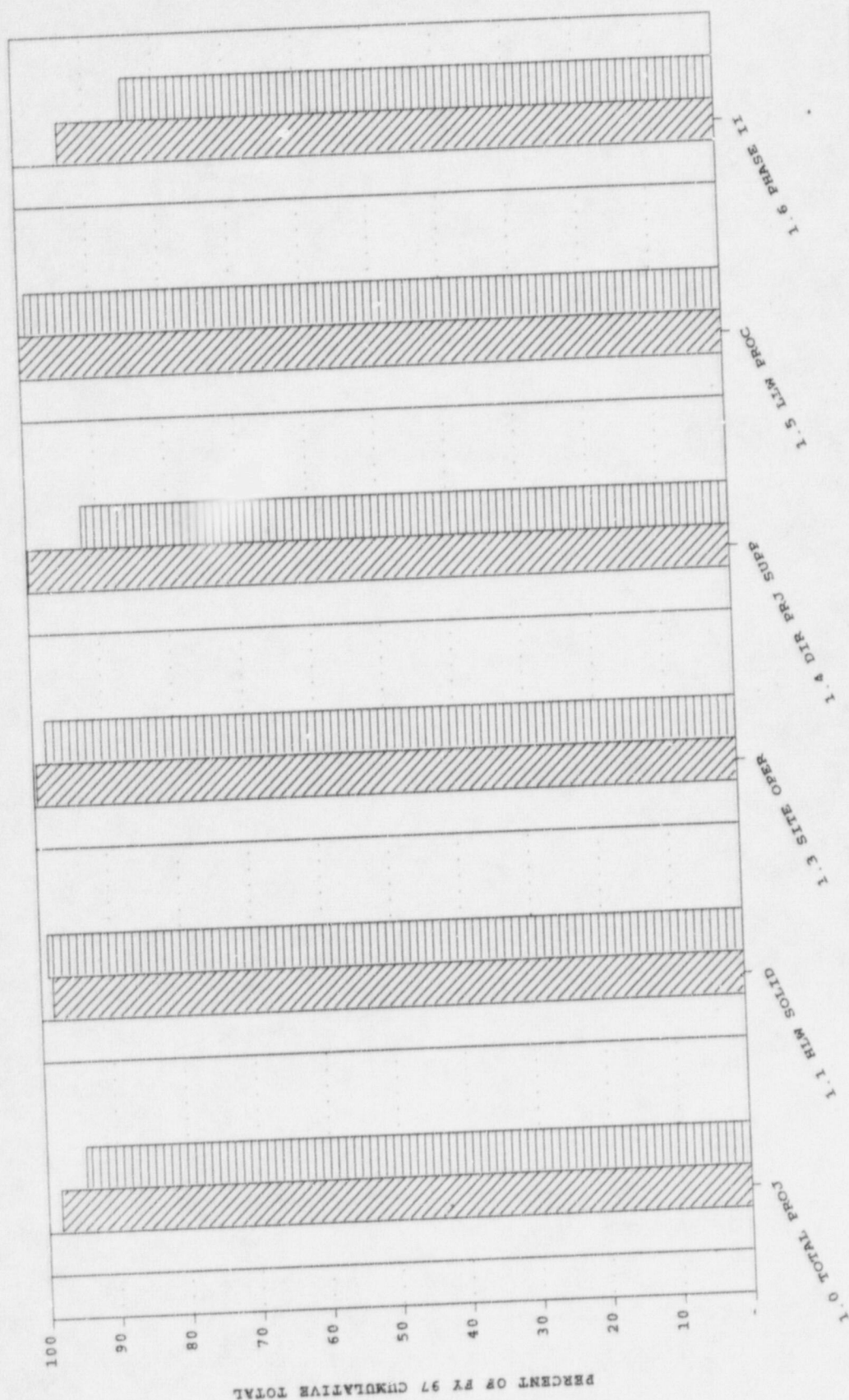
#### **Assessment/Actions**

The Project had no appreciable schedule or cost variance through September.



# FY 1997 SUMMARY

WBS 1.0 30-SEP-97

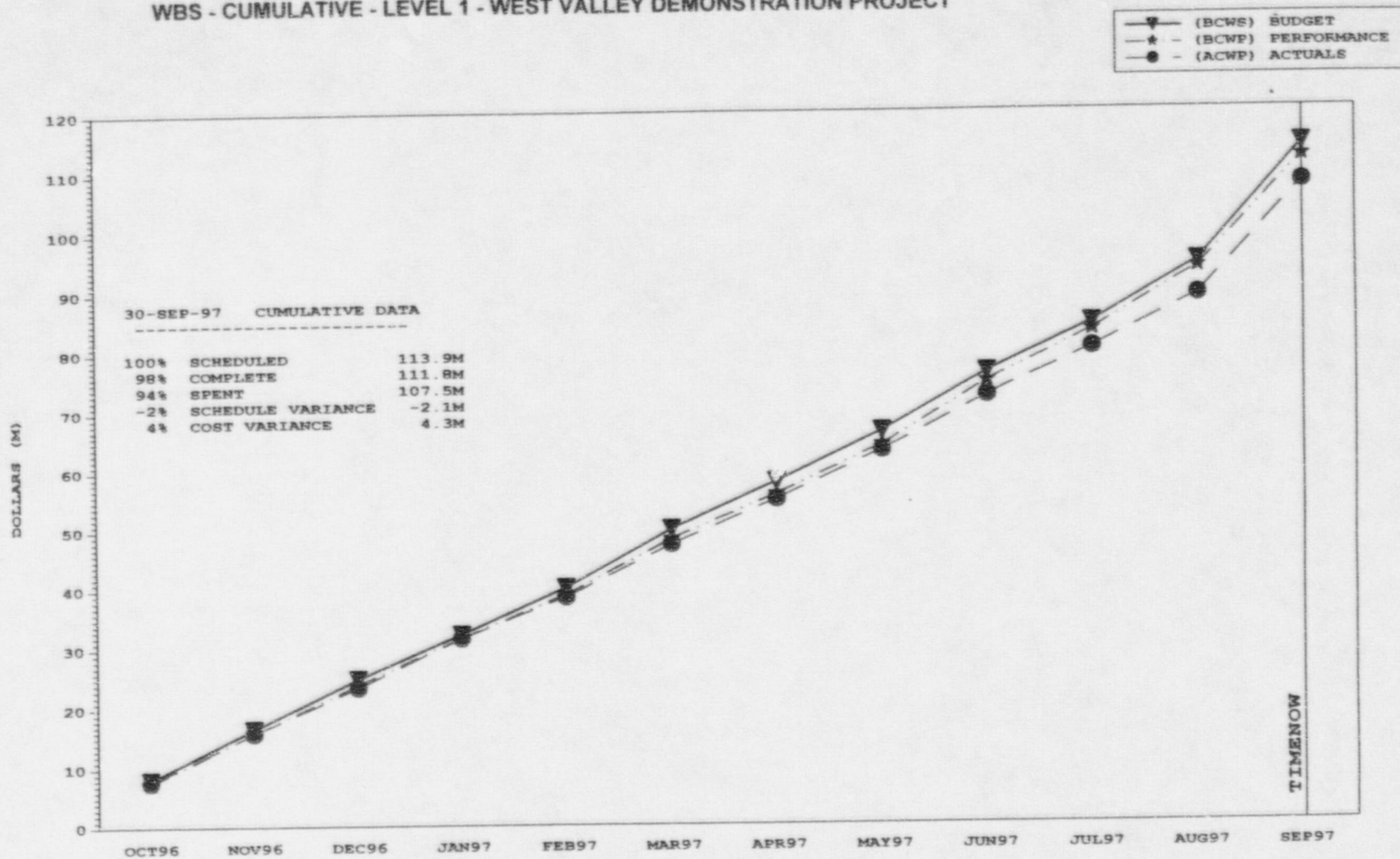


PERCENT BUDGETED - CUM BUDGET TO DATE/TOTAL 97 BUDGET  
 PERCENT PERFORMED - CUM PERFORM TO DATE/TOTAL 97 BUDGET  
 PERCENT SPENT - CUM ACTUALS TO DATE/TOTAL 97 BUDGET



## CUM FY-97 PERFORMANCE CURVE

WBS - CUMULATIVE - LEVEL 1 - WEST VALLEY DEMONSTRATION PROJECT



PROJECT TIMESCALE - \$M												
(BCWS) BUDGET	8	17	25	32	40	50	58	66	76	84	94	114
(BCWP) PERFORMANCE	7	16	24	32	39	48	56	64	74	83	93	112
(ACWP) ACTUALS	8	16	23	32	38	47	55	63	72	80	89	108
(SV) SCHED VAR	-0.7	-0.7	-0.9	-0.6	-1.2	-1.7	-2.0	-2.3	-1.5	-1.1	-1.0	-2.1
(CV) COST VAR	-0.3	0.1	0.5	0.1	0.4	0.9	0.8	1.0	2.4	3.0	4.6	4.3
(SPI) SCHED INDEX	0.91	0.96	0.96	0.98	0.97	0.97	0.97	0.97	0.98	0.99	1.05	1.04
(CPI) COST INDEX	0.96	1.01	1.02	1.00	1.01	1.02	1.02	1.02	1.03	1.04	1.05	1.04

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### 1.1 High-Level Waste Solidification

#### Accomplishments/Status

	# of Transfers	# of Curies (Cesium & Strontium)	Canisters Produced	# Transferred to HLWIS
Total for September	3	655,160	14	12
Total to Date	39	6,754,323	148	142

Vitrification operations continued to progress in September, both in operations and maintenance activities. Glass production continued with three HLW transfers from the WTF to Vitrification containing 655,160 curies of Cesium & Strontium, a total of 148 canisters have been filled, and 142 completed canisters have been located in the High Level Waste Interim Storage Racks. A melter system availability of greater than 78% has been achieved as of the end of September, 1997.

Preventive maintenance and minor repairs to the Vitrification In-cell Process Crane were successfully completed. These activities spanned a five-week time period and required numerous personnel entries into a high-contamination area, all of which were performed without incident. Through precise work planning, the total amount of time that the melter was idled was limited to just three days.

The Fourth Annual Technical Review on Corrosion Monitoring and Control for Tanks 8D-1 and 8D-2, was conducted on September 8 and 9 at the WVDP. Participants included personnel from PNNL, Westinghouse Science & Technology Center, DOE, WVNS, and an independent expert.

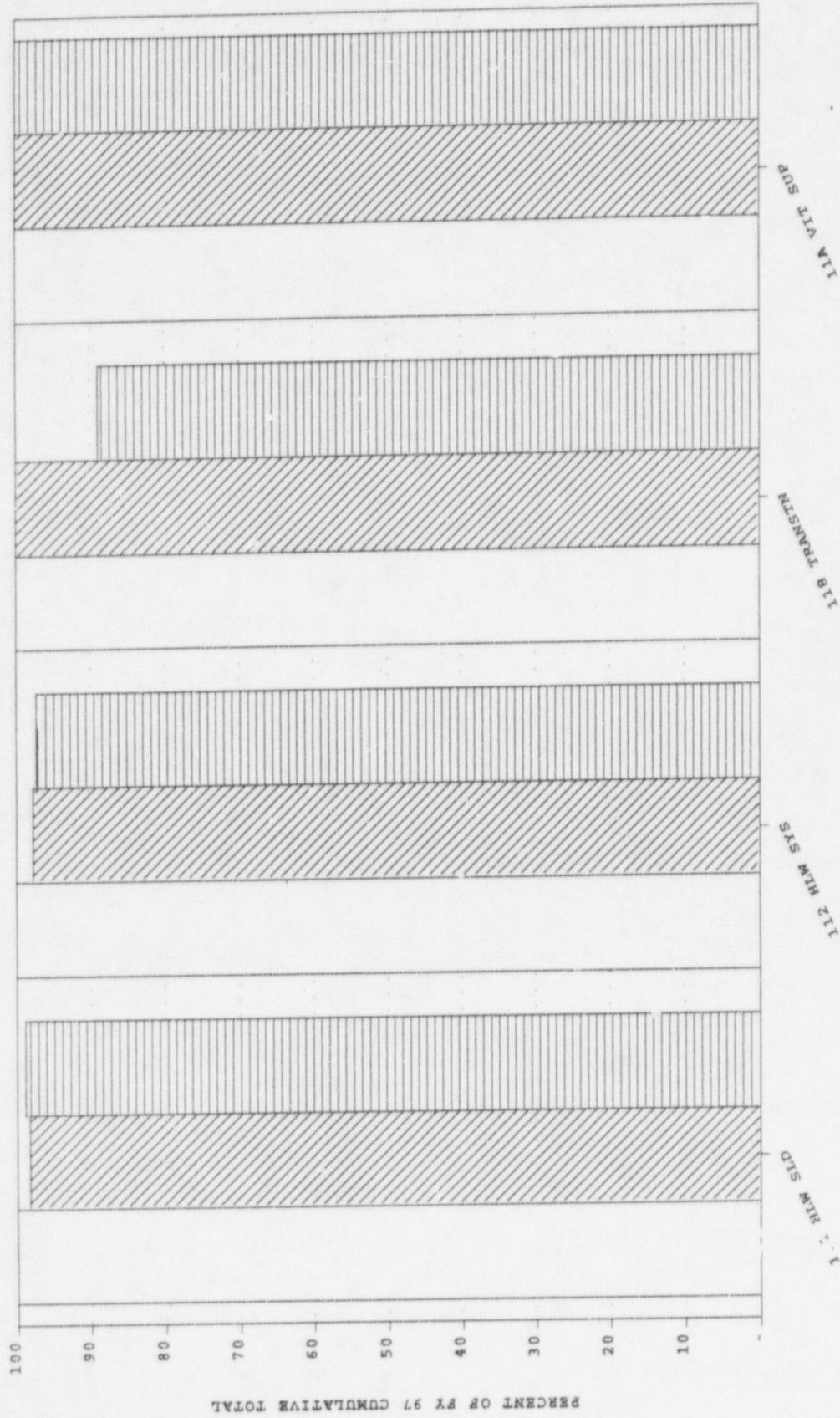
Approximately 200 nonradioactive drums of water and cement originally poured as shield drums for the Drum Cell, will be removed from the Drum Cell hardstand and disposed of as industrial waste.

#### Assessment/Actions

HLW Solidification had no appreciable schedule or cost variance for the month of September.

# FY 1997 SUMMARY

WBS 1.1 30-SEP-97



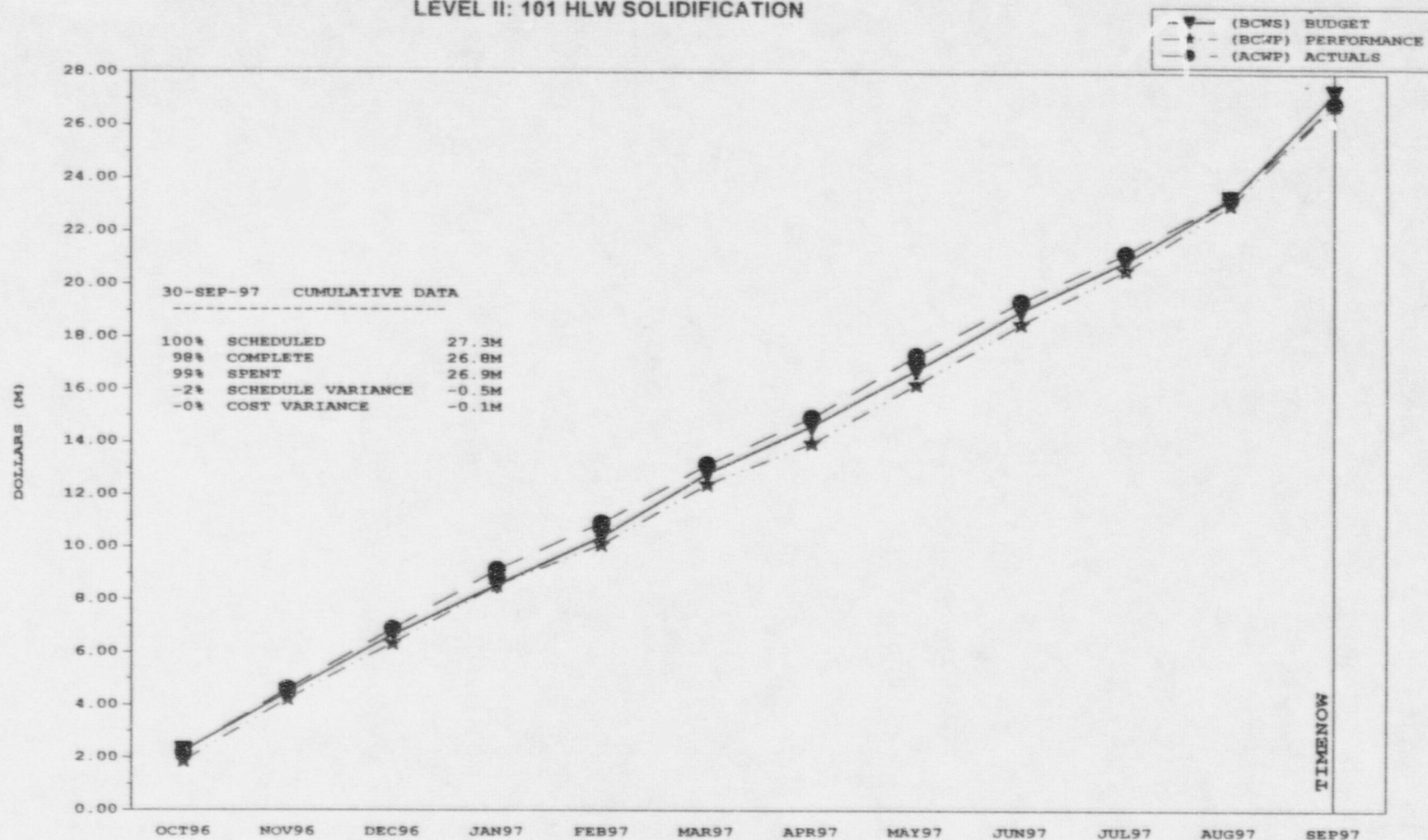
PERCENT BUDGETED	100	100	100	100
PERCENT PERFORMED	98	98	100	100
PERCENT SPENT	99	97	89	107

PERCENT BUDGETED - CUM BUDGET TO DATE/TOTAL 97 BUDGET  
 PERCENT PERFORMED - CUM PERFORM TO DATE/TOTAL 97 BUDGET  
 PERCENT SPENT - CUM ACTUALS TO DATE/TOTAL 97 BUDGET



## CUM FY-97 PERFORMANCE CURVE

LEVEL II: 101 HLW SOLIDIFICATION



	PROJECT TIMESCALE - \$M											
(BCWS) BUDGET	2.24	4.48	6.65	8.56	10.39	12.82	14.61	16.73	18.99	20.86	23.24	27.27
(BCWP) PERFORMANCE	1.88	4.22	6.33	8.53	10.08	12.41	13.96	16.18	18.49	20.53	23.03	26.80
(ACWP) ACTUALS	2.19	4.59	6.86	9.15	10.91	13.14	14.91	17.30	19.34	21.18	23.29	26.88
(SV) SCHED VAR	-0.4	-0.3	-0.3	-0.0	-0.3	-0.4	-0.7	-0.5	-0.5	-0.3	-0.2	-0.5
(CV) COST VAR	-0.3	-0.4	-0.5	-0.6	-0.8	-0.7	-1.0	-1.1	-0.8	-0.7	-0.3	-0.1
(SPI)	0.84	0.94	0.95	1.00	0.97	0.97	0.95	0.97	0.97	0.98	0.99	0.98
(CPI)	0.86	0.92	0.92	0.93	0.92	0.94	0.94	0.94	0.96	0.97	0.99	1.00

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### 1.3 Site Operations

#### Accomplishments/Status

The Low-Level Waste Treatment Facility (LLWTF) resumed operation on September 1, 1997. The system is operating with the Ion-Exchange columns in series at a processing rate of 20 gallons of process water per minute. The North Plateau Pump and Treat Systems continues to operate at approximately eight to ten gallons per minute and has processed 8.3 million gallons of groundwater since November, 1995.

A site-wide Personnel Safety Exercise was held on September 17, 1997. The objectives were to successfully evacuate personnel and complete accountability. This was the first full-site evacuation since 1988. Personnel demonstrated sound knowledge of evacuation procedures.

On September 23, 1997, Gary Morgan, Mercy Flight, Director of Air Medical Operations, conducted training on Helicopter Ground Safety as part of an agreement between WVDP, NYSERDA, and Mercy Flight.

Field work began on the Underground Fuel Tank Replacement project. Three empty petroleum fuel tanks and their associated piping were excavated. The remaining two concrete filled tanks will be completed after the first three tanks have been removed from site.

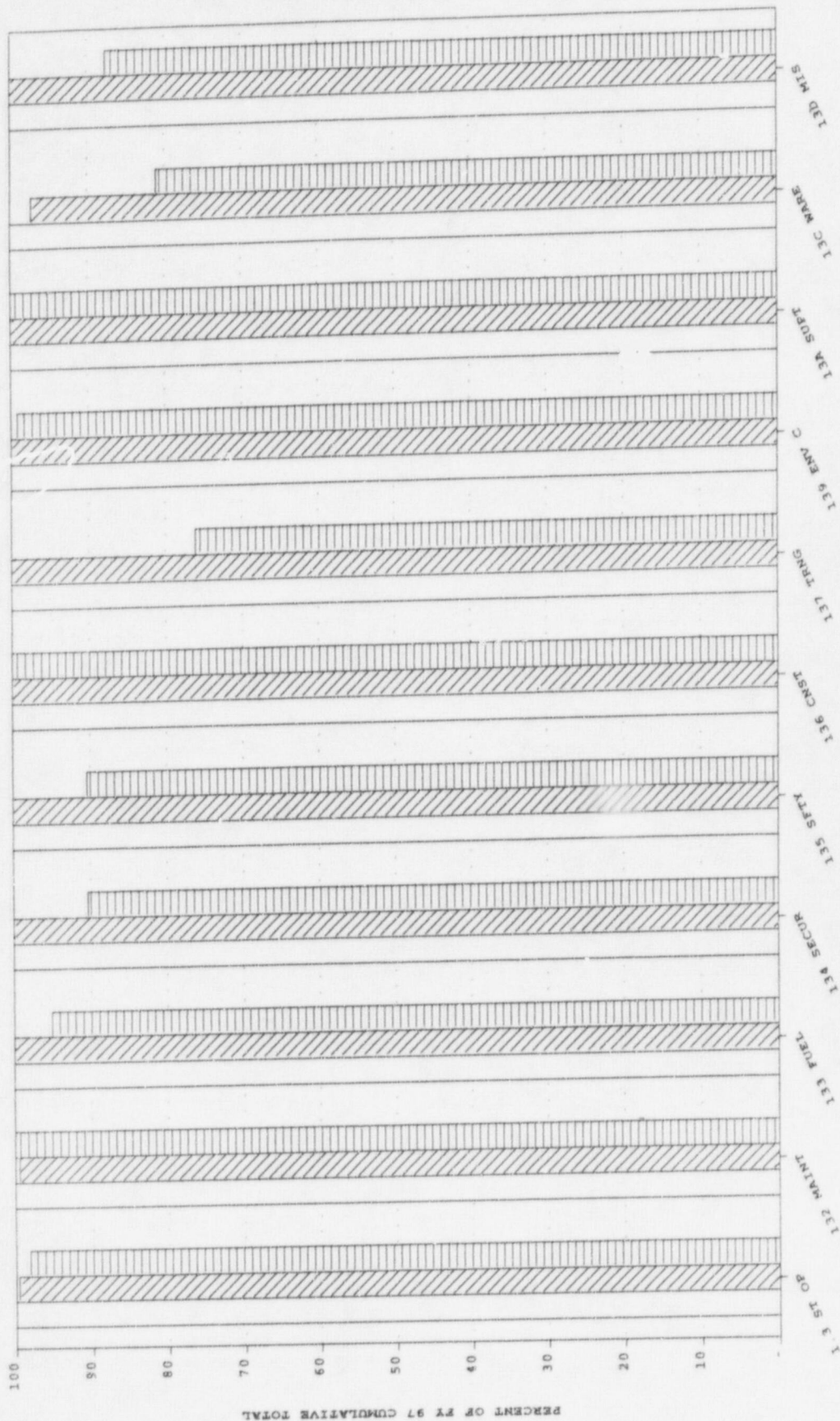
#### Assessment/Actions

Site Operations had no appreciable schedule variance for the month of September.

The positive cost variance was reduced by \$0.47 million, resulting in a negligible cumulative cost variance of positive \$0.51 million.

# FY 1997 SUMMARY

WBS 1.3 30-SEP-97



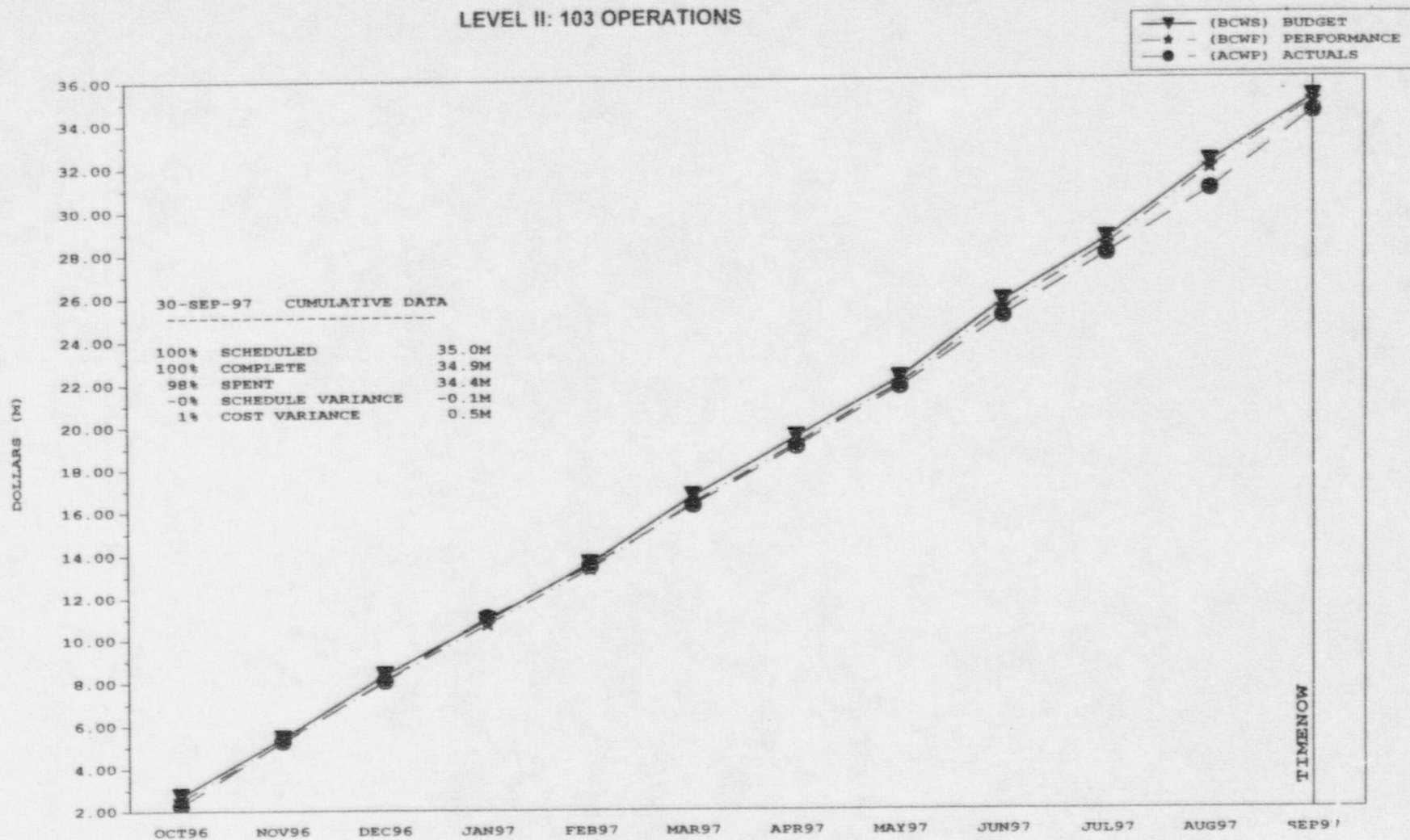
PERCENT BUDGETED	100	100	100	100	100	100	100	100	100	100	100	100
PERCENT PERFORMED	100	100	100	100	100	100	100	100	100	100	100	100
PERCENT SPENT	98	104	95	90	90	138	76	99	113	81	88	88

PERCENT BUDGETED - CUM BUDGET TO DATE/TOTAL 97 BUDGET  
 PERCENT PERFORMED - CUM PERFORM TO DATE/TOTAL 97 BUDGET  
 PERCENT SPENT - CUM ACTUALS TO DATE/TOTAL 97 BUDGET



## CUM FY-97 PERFORMANCE CURVE

LEVEL II: 103 OPERATIONS



	PROJECT TIMESCALE - \$M											
(BCWS) BUDGET	2.72	5.41	8.35	10.92	13.57	16.67	19.43	22.18	25.74	28.59	32.11	35.05
(BCWP) PERFORMANCE	2.52	5.23	8.05	10.75	13.33	16.36	19.12	21.91	25.40	28.32	31.84	34.91
(ACWP) ACTUALS	2.27	5.26	8.08	11.05	13.44	16.26	18.98	21.77	25.02	27.92	30.86	34.40
(SV) SCHED VAR	-0.2	-0.2	-0.3	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.1
(CV) COST VAR	0.3	-0.0	-0.0	-0.3	-0.1	0.1	0.1	0.1	0.4	0.4	1.0	0.5
(SPI)	0.93	0.97	0.97	0.98	0.98	0.98	0.98	0.99	0.99	0.99	1.03	1.02
(CPI)	1.11	0.99	1.00	0.97	0.99	1.01	1.01	1.01	1.02	1.01	1.03	1.02

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### 1.4 Direct Project Support

#### Accomplishments/Status

Forty-three people attended the September 23, 1997 Quarterly Public Meeting at the Ashford Office Complex. The meeting featured presentations by DOE and NYSERDA attorneys regarding issues related to the agency's responsibilities for long-term site management.

On September 24, 1997, over 40 WVDP employees, West Valley Central and St. Aloysius Schools students, and their families joined together for a Mentoring Program Celebration to kickoff the Mentoring Program's fourth year. Six new, and thirteen former WVDP employees are participating in the program this year.

The 1997 WVDP ALARA (As Low As Reasonably Achievable) performance through September was 3.594 person-rem. This represents 53.6 percent of the calendar year-to-date ALARA goal of 6.708 person-rem. There were zero reportable nasal, internal, skin, and clothing contamination events in September. Six OSHA-recordable incidents occurred during September, making the WVDP's year-to-date Total Recordable Case Rate (TRC) 4.58.

#### Assessment/Actions

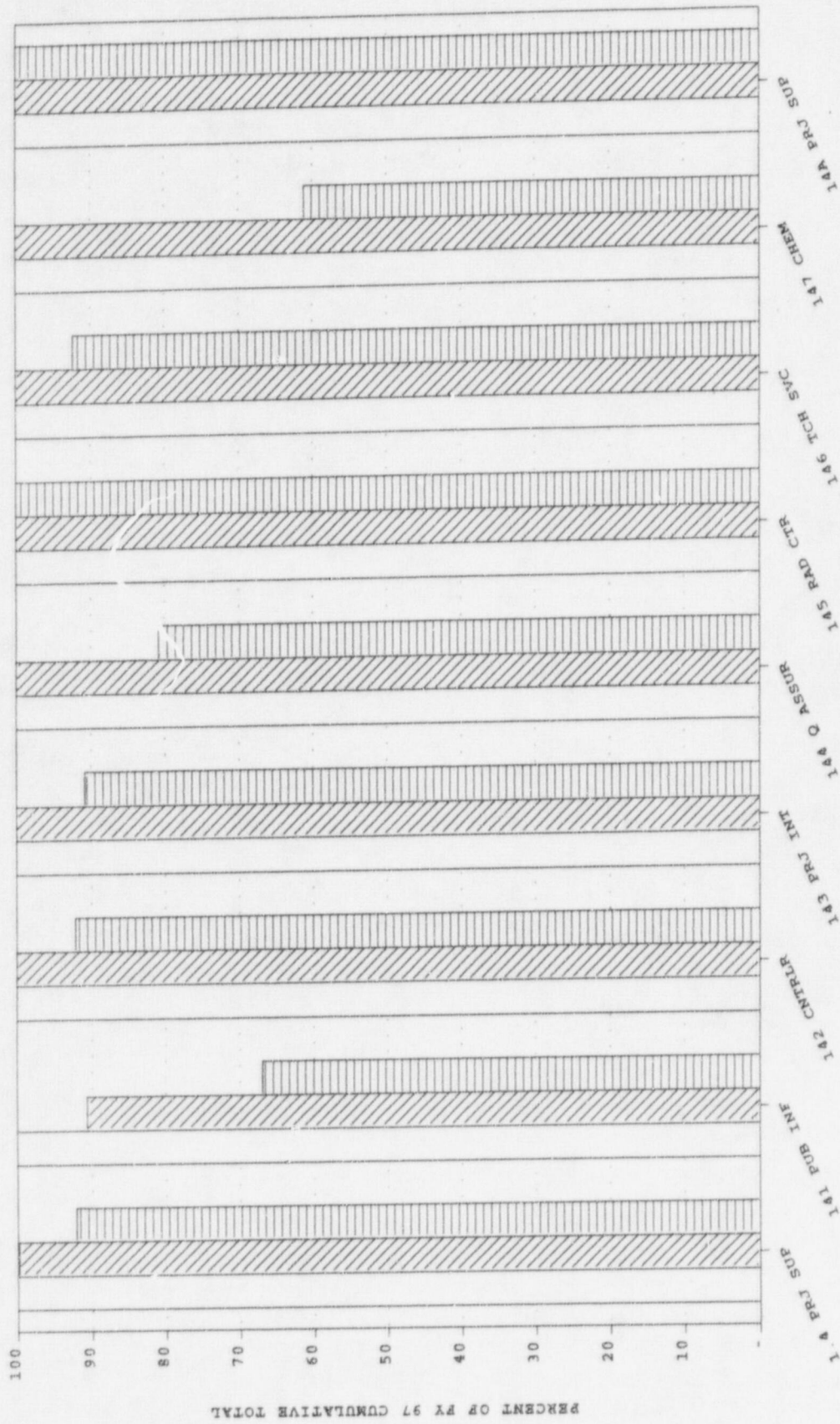
Direct Project Support had no appreciable schedule variance for the month of September.

The positive cost variance was reduced by \$0.59 million, resulting in a cumulative cost variance of positive \$1.57 million. This remains due to increased assignment of support work group labor toward vitrification operations, and actual spending was less than planned for laboratory consumables/service contracts and other routine procurements.



## FY 1997 SUMMARY

WBS 1.4 30-SEP-97

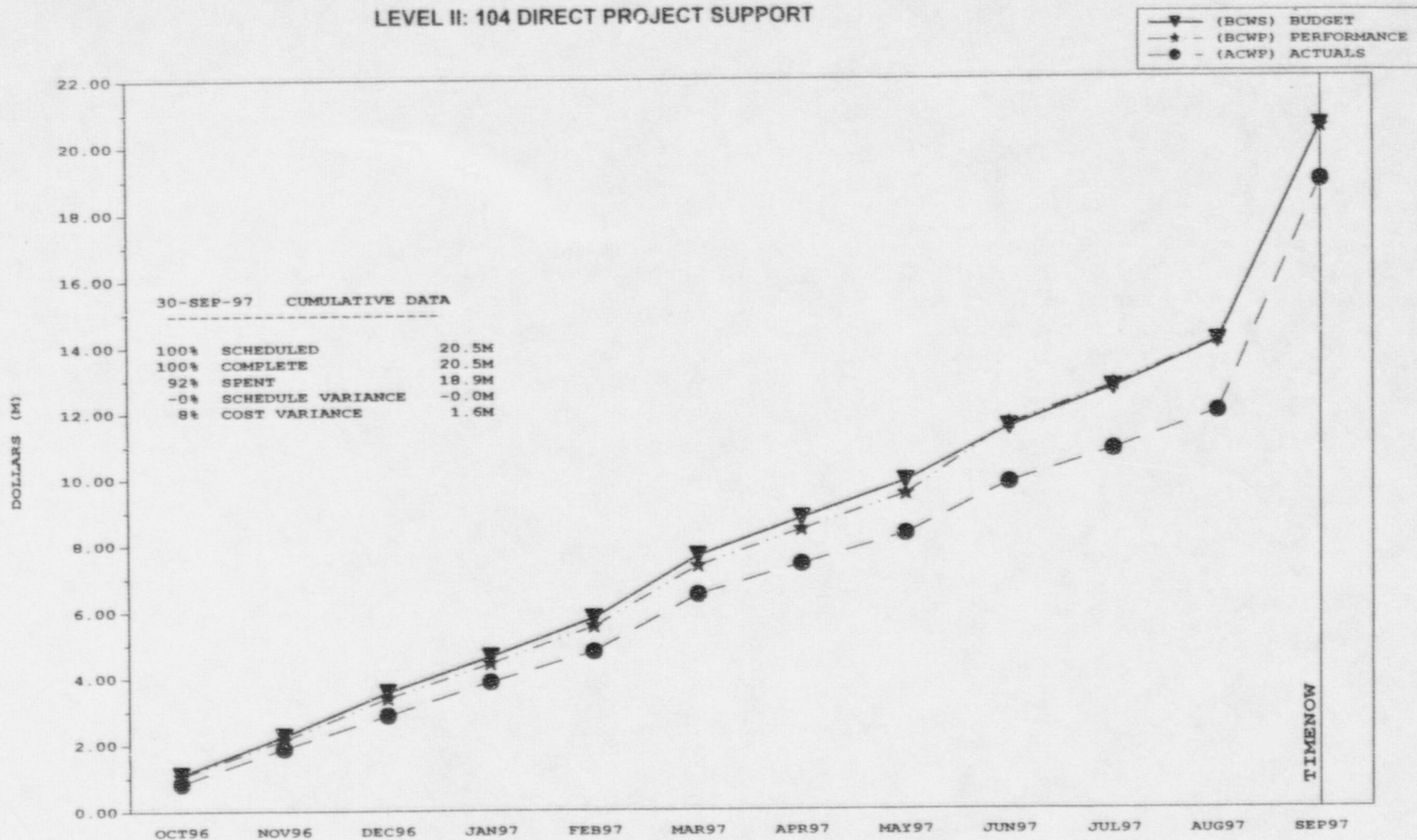
[illegible]

	PERCENT BUDGETED -	CUM BUDGET	TO DATE/TOTAL	97 BUDGET
	PERCENT PERFORMED -	CUM PERFORM	TO DATE/TOTAL	97 BUDGET
	PERCENT SPENT -	CUM ACTUALS	TO DATE/TOTAL	97 BUDGET



## CUM FY-97 PERFORMANCE CURVE

LEVEL II: 104 DIRECT PROJECT SUPPORT



	PROJECT TIMESCALE - \$M											
(BCWS) BUDGET	1.09	2.25	3.55	4.64	5.78	7.65	8.76	9.88	11.49	12.69	14.08	20.51
(BCWP) PERFORMANCE	1.05	2.13	3.38	4.43	5.54	7.35	8.43	9.48	11.58	12.75	14.11	20.47
(ACWP) ACTUALS	0.84	1.87	2.86	3.87	4.78	6.47	7.38	8.30	9.82	10.82	11.95	18.90
(SV) SCHED VAR	-0.0	-0.1	-0.2	-0.2	-0.2	-0.3	-0.3	-0.4	0.1	0.1	0.0	-0.0
(CV) COST VAR	0.2	0.3	0.5	0.6	0.8	0.9	1.0	1.2	1.8	1.9	2.2	1.6
(SPI)	0.96	0.95	0.95	0.95	0.96	0.96	0.96	0.96	1.01	1.01	1.00	1.00
(CPI)	1.25	1.14	1.18	1.15	1.16	1.14	1.14	1.14	1.18	1.18	1.18	1.08

## **NARRATIVE HIGHLIGHTS AND ASSESSMENT**

### **1.5 Low-Level Waste/TRU Waste Handling**

#### **Accomplishments/Status**

A total of 131, 55-gallon drums and two, S-70 boxes were shipped to Scientific Ecology Group (SEG) for treatment and disposal on September 10, 1997 and were received by SEG on September 11, 1997.

Diversified Technologies Services (DTS) has begun submittals and discussion of process equipment delivery for the Low-Level Waste Treatment Facility (LLWTF). The building erection is in progress, with framing and wall panels in place. Butler Construction has submitted a proposal for the floor slab design and installation. Engineering is continuing work on the designs for all segments of the project; materials are being ordered.

The Container Sorting and Packaging Facility sorted 1,304 containers from January 1, 1997 through the end of September, and a total of 2,487 containers to date.

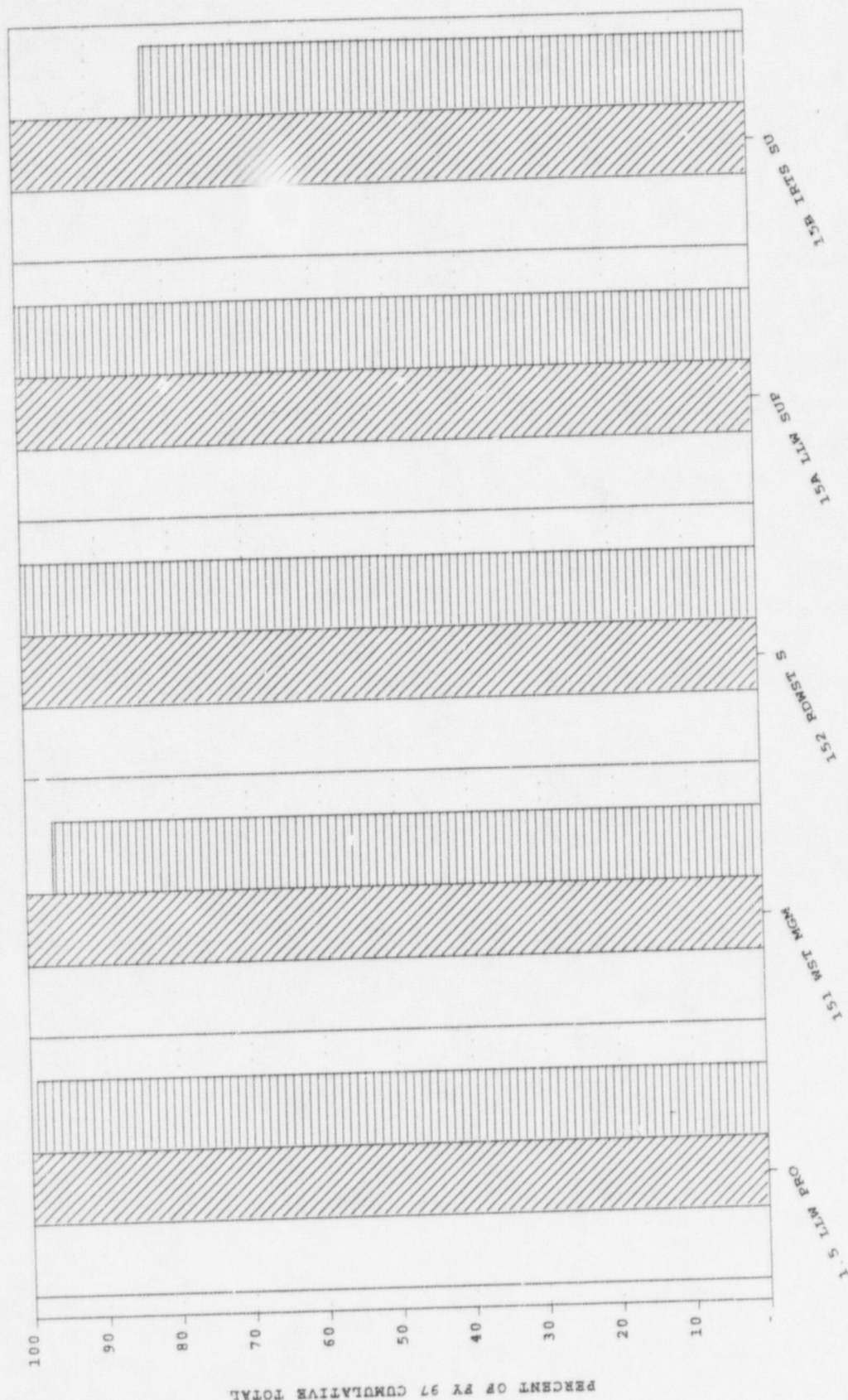
The hazardous waste inventory at the end of September was 644 kilograms (kg), the industrial waste inventory was 6,227 kg, and recyclable materials totaled 1,169 kg.

#### **Assessment/Actions**

Low-Level Waste and TRU Waste had no appreciable schedule or cost variance for the month of September.

# FY 1997 SUMMARY

WBS 1.5 30-SEP-97



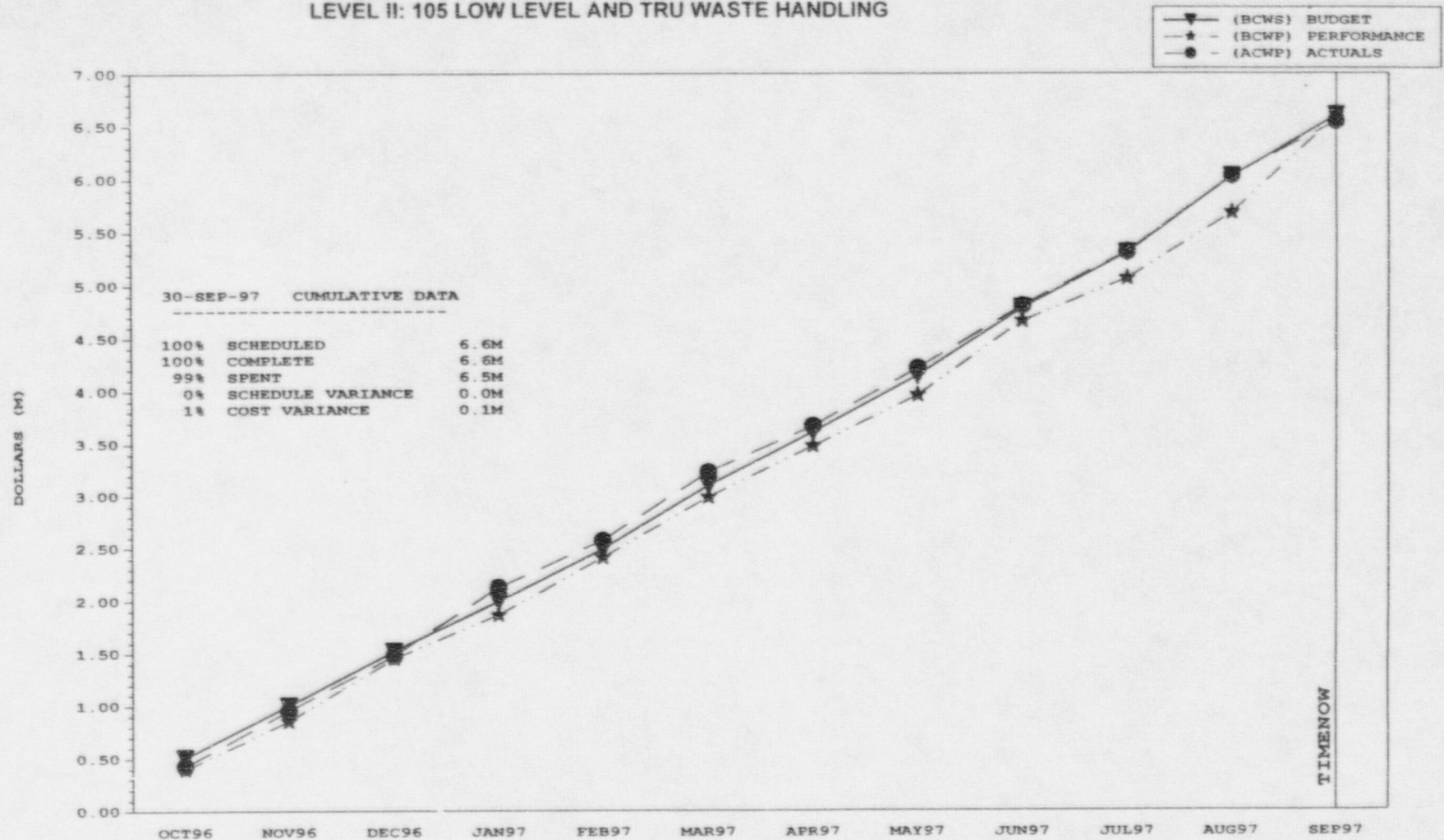
PERCENT BUDGETED	100	100	100	100	100
PERCENT PERFORMED	100	100	100	100	100
PERCENT SPENT	99	96	109	103	82

PERCENT BUDGETED - CUM BUDGET TO DATE/TOTAL 97 BUDGET  
 PERCENT PERFORMED - CUM PERFORM TO DATE/TOTAL 97 BUDGET  
 PERCENT SPENT - CUM ACTUALS TO DATE/TOTAL 97 BUDGET



## CUM FY-97 PERFORMANCE CURVE

LEVEL II: 105 LOW LEVEL AND TRU WASTE HANDLING



	PROJECT TIMESCALE - \$M											
(BCWS) BUDGET	0.51	1.00	1.52	1.99	2.49	3.10	3.61	4.14	4.78	5.30	6.03	6.60
(BCWP) PERFORMANCE	0.40	0.85	1.45	1.87	2.41	2.99	3.48	3.96	4.66	5.06	5.68	6.60
(ACWP) ACTUALS	0.43	0.95	1.48	2.13	2.57	3.23	3.67	4.21	4.80	5.31	6.03	6.54
(SV) SCHED VAR	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.2	-0.3	0.0
(CV) COST VAR	-0.0	-0.1	-0.0	-0.3	-0.2	-0.2	-0.2	-0.3	-0.1	-0.3	-0.4	0.1
(SPI)	0.79	0.85	0.96	0.94	0.97	0.96	0.96	0.96	0.98	0.96	0.94	1.00
(CPI)	0.93	0.90	0.98	0.88	0.94	0.93	0.95	0.94	0.97	0.95	0.94	1.01

## NARRATIVE HIGHLIGHTS AND ASSESSMENT

### 1.6 Phase II

#### Accomplishments/Status

The Draft Environmental Impact Statement (DEIS) public comment period officially closed on September 22, 1996. All comments received have been made available for review in the public reading rooms. Science Application International Corporation (SAIC) is continuing the comment resolution process. In addition, they also have prepared and submitted "cost benefit" packages that compare the alternatives for each Waste Management Area (WMA). The Cost Benefit Packages for WMA 1, 2, 3, 4, 5, 7, 8, and 9 are currently under review by DOE and NYSERDA.

The Cut-off Strategy Waste In-flow Study was submitted to the operating and engineering managers of the Waste Tank Farm, Integrated Radwaste Treatment System, Vitrification, and Main Plant for review and comment. This study looks at the waste streams that are presently associated with Vitrification and Waste Tank Farm Operations and tries to predict what the makeup of the waste streams will be after termination of flow of these streams to Tank 8D-2. The study considers the volume, solids, concentration, and curie content of the waste in order to determine the modifications required and the method of operation after termination of flow to Tank 8D-2.

The Citizen Task Force (CTF) that has been convened to provide input to DOE and NYSERDA on development of a preferred alternative for Project completion and site closure or long-term management by New York State held two meetings in September. Topics for discussion at the September 3, 1997 meeting included a review of information on the re-engineered closure options for the Tank Farm and Vitrification Facility that were presented at the August 19, 1997 meeting; a general overview of the facilities located in Waste Management Area (WMA) 1, Main Plant; and discussions about CTF participation in the DOE conference on High-Level Waste Tanks in Salt Lake City, Utah on October 7 & 8. The September 16, 1997, meeting included a presentation on the analysis of Main Plant facilities; introducing cost/benefit data to the CTF; and initial presentations and discussions on charts and graphs that provide roll-up data for the various alternatives and WMAs.

The WVDP continues to implement the Resource Conservation and Recovery Act Facility Investigation (RFI) Work Plan. All required RFI reports have been submitted and approved by the regulators. The agencies are presently working to make final determinations for five supplemental solid waste management units and eight of the "sealed rooms" in the Process Building. Determinations will be based on previously submitted information and various RFI reports. A quarterly progress/status meeting with the regulators will be held on October 1, 1997.

#### Assessment/Actions

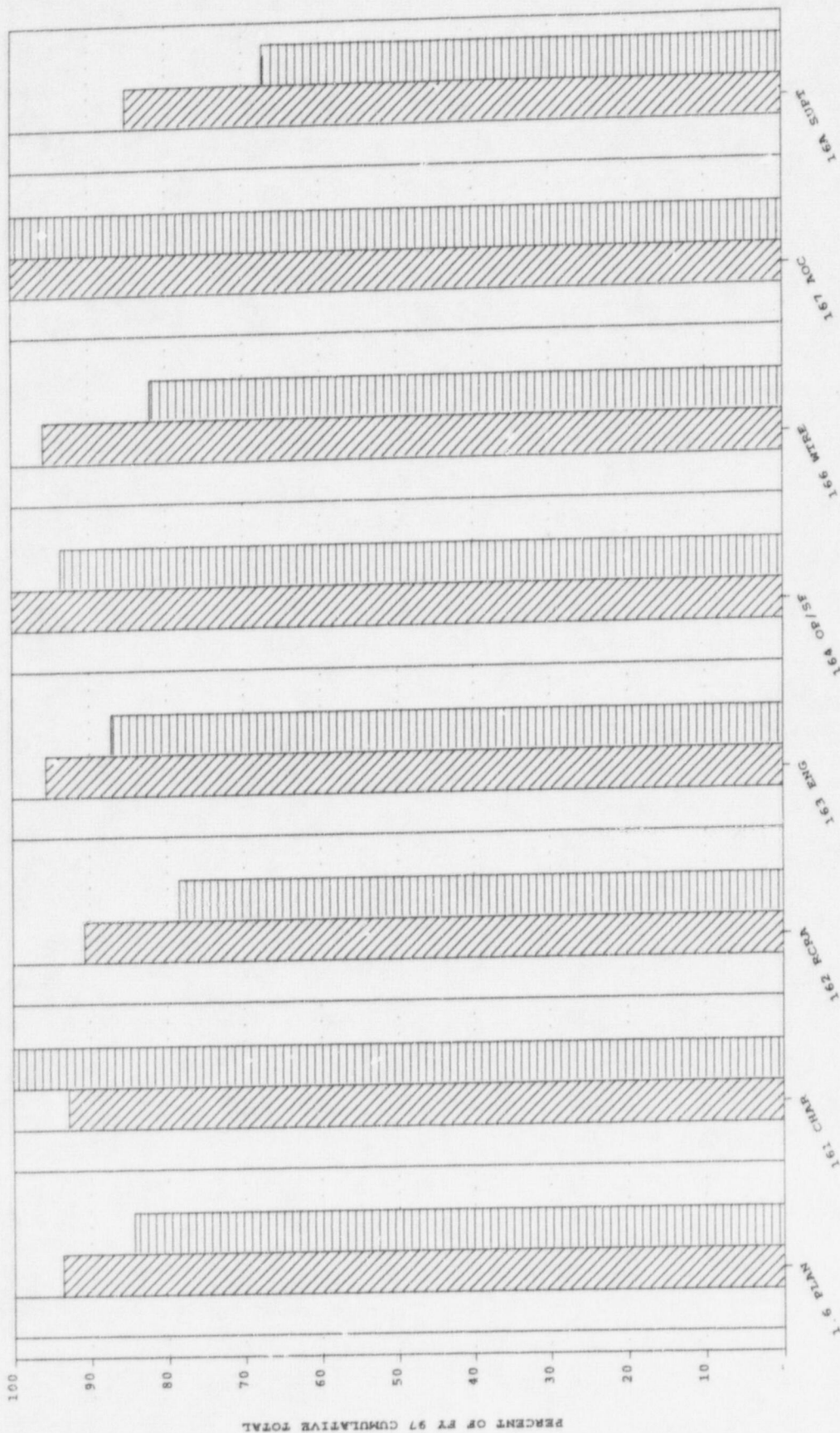
The negative schedule variance increased in September by \$1.28 million, resulting in a cumulative schedule variance of negative \$1.49 million. This was due to non-impacting delays in the delivery of equipment supporting Waste Tank Farm activities and budgeting of the EDMS procurement in September to allow delivery in FY98.

The positive cost variance increased by \$0.15 million, resulting in a cumulative cost variance of positive \$2.22 million. This remains due primarily to assignment of planned labor resources toward vitrification operations.



# FY 1997 SUMMARY

WBS 1.6 30-SEP-97



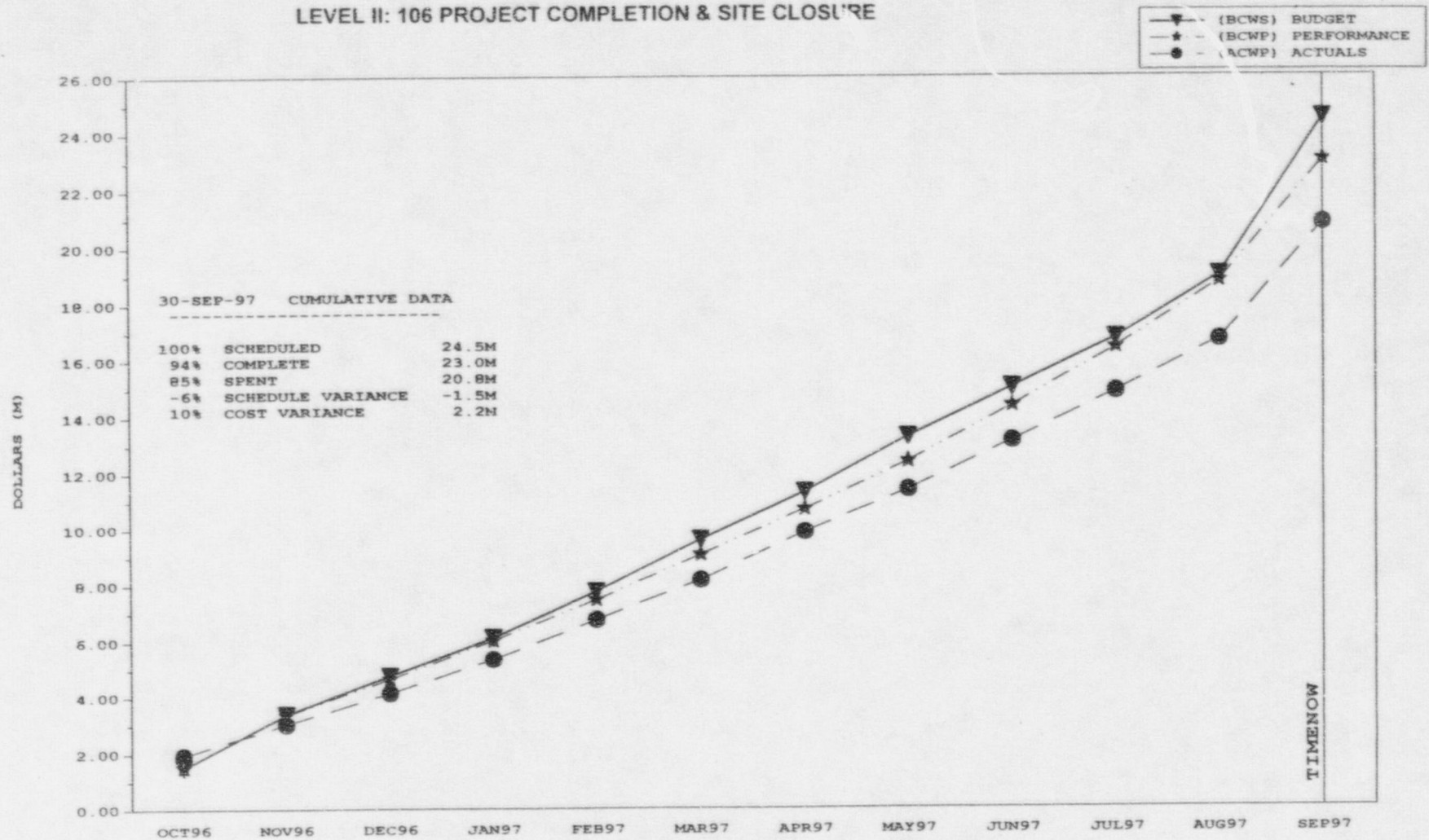
PERCENT BUDGETED	100	100	100	100	100	100	100
PERCENT PERFORMED	94	93	91	96	100	100	100
PERCENT SPENT	84	131	78	87	94	82	67

PERCENT BUDGETED - CUM BUDGET TO DATE/TOTAL 97 BUDGET  
 PERCENT PERFORMED - CUM PERFORM TO DATE/TOTAL 97 BUDGET  
 PERCENT SPENT - CUM ACTUALS TO DATE/TOTAL 97 BUDGET



## CUM FY-97 PERFORMANCE CURVE

LEVEL II: 106 PROJECT COMPLETION &amp; SITE CLOSURE



	PROJECT TIMESCALE - \$M											
(BCWS) BUDGET	1.52	3.38	4.76	6.13	7.75	9.60	11.29	13.26	15.00	16.74	18.96	24.50
(BCWP) PERFORMANCE	1.52	3.36	4.66	6.03	7.47	9.05	10.68	12.38	14.36	16.39	18.75	23.01
(ACWP) ACTUALS	1.94	3.04	4.13	5.36	6.77	8.16	9.87	11.38	13.11	14.85	16.68	20.79
(SV) SCHED VAR	-0.0	-0.0	-0.1	-0.1	-0.3	-0.5	-0.6	-0.9	-0.6	-0.4	-0.2	-1.5
(CV) COST VAR	-0.4	0.3	0.5	0.7	0.7	0.9	0.8	1.0	1.3	1.5	2.1	2.2
(SPI)	1.00	1.00	0.98	0.99	0.96	0.94	0.95	0.93	0.96	0.98	0.99	0.94
(CPI)	0.78	1.10	1.13	1.13	1.10	1.11	1.08	1.09	1.10	1.10	1.12	1.11

# **ADMINISTRATIVE**

Project personnel as of September 30, 1997:

	<u>Mgt</u>	<u>Prof</u>	<u>NE</u>	<u>Hourly</u>	<u>Total</u>
WVNS On Board <sup>1</sup>	110	360	208	177	855
Contract Guard	0	0	0	25	25
Dames and Moore <sup>2</sup>	4	16	0	0	20
<b>Project Total:</b>	<u>114</u>	<u>376</u>	<u>208</u>	<u>202</u>	<u>900</u>

## **EEO Statistics:**

	<u>Mgt</u>	<u>Prof</u>	<u>NE</u>	<u>Hourly</u>	<u>Total</u>
Minority (Included in WVNS Total)	12	48	11	15	86
Female (Included in WVNS Total)	17	75	127	26	245

<sup>1</sup> On Board total excludes 11 casuals

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

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

## **Accomplishments/Status**

Oral arguments on the appeal of the New York State Tax Case were held on June 12, 1997, in Buffalo, New York. Oral arguments presented to the New York State Tax Tribunal, limited to 25 minutes per side, were given to substantiate each side's position in its appeal of the opinion of the Administrative Law Judge. The tribunal now has up to six months in which to issue their decision.

## COST PERFORMANCE REPORT - WORK BREAKDOWN STRUCTURE

SEP-97

FORMAT 1 PROGRESS REPORT (1)

WBS ITEM	CURRENT PERIOD					PROJECT CUM-TO-DATE					-PROJECT- BAC
	BCWS SCHED	BCWP COMPLETE	ACWP SPENT	SV SCHED	CV COST VARIANCE	BCWS SCHED	BCWP COMPLETE	ACWP SPENT	SV SCHED	CV COST VARIANCE	
101 HLW SOLIDIFICATION	4031	3773	3593	(258)	179	423854	423388	423464	(465)	(76)	451022
102 D & D	0	0	0	0	0	22617	22617	22617	0	0	22617
103 OPERATIONS	2943	3066	3540	123	(474)	317599	317460	316950	(139)	510	345405
104 DIRECT PROJECT SUPPORT	6432	6361	6952	(71)	(591)	166647	166604	165035	(43)	1569	180222
105 LOW-LEVEL WST HANDLING	572	320	514	348	406	188999	188999	188943	0	56	196229
106 STABILIZA & PROJ COMPL	5542	4263	4111	(1279)	152	82744	81256	79035	(1488)	2222	121600
ESCALATION	0	0	0	0	0	0	0	0	0	0	3973
PMB	19521	18383	18711	(1138)	(328)	1202460	1200325	1196045	(2135)	4280	1321068
WVNS MR	0	0	0	0	0	0	0	0	0	0	(2117)
STABILIZATION SHORTFALL	0	0	0	0	0	0	0	0	0	0	0
CBB	19521	18383	18711	(1138)	(328)	1202460	1200325	1196045	(2135)	4280	1318951
FEE	2860	2860	2860	0	0	84210	84210	84210	0	0	90257
SDA FOR EIS	0	0	0	0	0	490	490	490	0	0	491
TOTAL	22381	21243	21571	(1138)	(328)	1287160	1285025	1280745	(2135)	4280	1409699
DEOB PNNL+RW	104	104	104	0	0	36010	36010	36010	0	0	38866
DEOB HANFORD	0	0	0	0	0	14396	14396	14396	0	0	14914
DEOB OAKRIDGE	0	0	0	0	0	1441	1441	1441	0	0	1441
DEOB BRKHAVEN	0	0	0	0	0	758	758	758	0	0	372
DEOB SAIC (EIS)	85	85	85	0	0	4988	4988	4988	0	0	4988
DEOB SAVANNAH RIVER	0	0	0	0	0	1439	1439	1439	0	0	4211
DEOB ARGONNE	0	0	0	0	0	909	909	909	0	0	1353
DOE EXPENSE	163	163	163	0	0	12527	12527	12527	0	0	16337
DOE MR	0	0	0	0	0	0	0	0	0	0	1841
NON-PROJECT	(56)	(65)	(38)	(9)	(27)	(15151)	(15042)	(14956)	109	(86)	(17749)
NYS CREDIT	(310)	(310)	(310)	0	0	33604	33604	33604	(0)	0	33370
RELOCATION	0	0	0	0	0	1179	1179	1179	0	0	1179
TOTAL THRU PHASE I	22366	21219	21574	(1147)	(355)	1379260	1377233	1373039	(2026)	4194	1510822
NON-PH I ADJ (2)	(5627)	(4348)	(4196)	1279	(152)	(89356)	(87868)	(85646)	1488	(2222)	(135269)
TOTAL TPCE PHASE I	16739	16871	17378	132	(507)	1289904	1289366	1287393	(538)	1973	1375552

NOTES: (1) ALL ENTRIES IN THOUSANDS OF DOLLARS - SUM OF THE PARTS MAY VARY FROM TOTAL DUE TO ROUNDING  
 (2) STABILIZATION COSTS FOR DEOBS AT PNNL ESTIMATED FROM TOTAL COSTS REPORTED ON FIS.



PROJECT FUNDING SOURCES	.....PRIOR	.....FY97	.....FY98	.....TOTAL
101 HLW SOLIDIFICATION	396,585	33,903	20,534	451,022
102 D & D	22,617	0	0	22,617
103 OPERATIONS	282,550	36,819	26,036	345,405
104 DIRECT PROJECT SUPPORT	146,136	20,941	13,145	180,222
105 LOW-LEVEL WASTE HANDLG	182,399	6,720	7,110	196,229
106 STABILIZATION & PROJ COMPLETION	58,245	32,394	30,961	121,600
ESCALATION	0	0	3,973	3,973
PMB LINE	1,088,532	130,776	101,760	1,321,068
WVNS MGMT RESERVE	0	-3,568	1,451	-2,117
STABILIZATION SHORTFALL	0	0	0	0
CONTRACT BUDGET BASE	1,088,532	127,207	103,211	1,318,951
FEE	71,917	11,086	7,253	90,257
SDA ACTIVITIES FOR EIS	490	1	0	491
WVNS TOTAL	1,160,939	138,295	110,465	1,409,699
DEOB RW/PNNL/MCC	34,739	3,594	532	38,866
DEOB HANFORD	14,396	518	0	14,914
DEOB OAK RIDGE	1,441	0	0	1,441
DEOB BRKHAVEN (W/EIS)	372	0	0	372
DEOB FOR SAIC (EIS)	3,084	1,904	0	4,988
DEOB SAVANNAH RIVER	1,439	2,772	0	4,211
DEOB ARGONNE NAT LAB	1,351	2	0	1,353
DOE EXPENSE	11,854	1,540	2,943	16,337
DOE MGMT RESERVE	0	0	1,841	1,841
NON-PROJECT	-16,062	-1,354	-333	-17,749
NYS CREDIT	29,817	1,500	2,053	33,370
RELOCATION	1,179	0	0	1,179
TPCE THRU PHASE I (YOE)	1,244,550	148,771	117,500	1,510,822
TPCE THRU PHASE I (BASE 97)	1,244,550	148,771	113,527	1,506,848
NON-PHASE I ADJ (YOE)	-63,496	-39,728	-32,045	-135,269
TOTAL PHASE I TPCE (YOE)	1,181,054	109,043	85,455	1,375,552
TOTAL PHASE I (BASE 97\$ )	1,181,054	109,043	81,481	1,371,579

PROJECT FUNDING SOURCES	.....PRIOR	.....FY97	.....FY98	.....TOTAL
DEPT OF ENERGY (YOE)	1,133,362	116,920	105,750	1,356,032
N Y STATE FUNDING	94,253	11,690	10,519	116,462
SUP'L NYS (+17% EIS)	3,665	455	0	4,120
UNCOSTED NYS FUNDING	1,767	0	0	1,767
NYS CRED/SERV	29,909	1,301	1,231	32,442
TOTAL PROJECT (YOE)	1,262,956	130,366	117,500	1,510,822
NON-PHASE I ADJ (YOE)	-69,083	-34,141	-32,045	-135,269
PHASE I (\$ YOE)	1,193,873	96,225	85,455	1,375,553

# COST PERFORMANCE REPORT - ORGANIZATION BREAKDOWN STRUCTURE

SEP-97

FORMAT 2 PROGRESS REPORT (1)

ORGANIZATION	CURRENT PERIOD					PROJECT CUM-TO-DATE					PROJECT-- BAC
	BCWS SCHED	BCWP COMPLETE	ACWP SPENT	SV SCHED VARIANCE	CV COST (497)	BCWS SCHED	BCWP COMPLETE	ACWP SPENT	SV SCHED VARIANCE	CV COST (1012)	
TRANSITION PROJECTS	2026	1581	2079	(444)	(497)	237070	236568	237580	(502)	(1012)	247777
PROJECT MANAGEMENT	6405	5655	5507	(750)	148	15991	15241	14120	(750)	1121	18791
HLW OPERATIONS	3285	3055	3104	(230)	(49)	53969	53503	53651	(465)	(148)	71315
SITE OPERATIONS	2762	3195	2561	433	634	198663	198504	199837	(160)	(1333)	210257
ENGINEERING	1559	1472	1343	(87)	130	154233	154119	153084	(114)	1035	180291
SITE SERVICES & SUPPORT	755	697	807	(58)	(110)	278580	278537	279191	(43)	(654)	287097
SAFETY, ENVIRON & HEALTH	1242	1254	2257	12	(1003)	147579	147579	150341	0	(2763)	162421
PROCUR & PROG ANALY	1164	1151	765	(13)	387	79836	79734	72378	(101)	7356	96670
HR/TRAINING/SECUR	322	322	289	0	34	36541	36541	35862	0	679	40987
ESCALATION	0	0	0	0	0	0	0	0	0	0	3973
PMB	19521	18383	18711	(1138)	(328)	1202460	1200325	1196045	(2135)	4280	1321068
WVNS MR	0	0	0	0	0	0	0	0	0	0	(2117)
STABILIZATION SHORTFALL	0	0	0	0	0	0	0	0	0	0	0
CBB	19521	18383	18711	(1138)	(328)	1202460	1200325	1196045	(2135)	4280	1318951
FEE	2860	2860	2860	0	0	84210	84210	84210	0	0	90257
SDA ACTIVITIES FOR EIS	0	0	0	0	0	490	490	490	0	0	491
TOTAL	22381	21243	21571	(1138)	(328)	1287160	1285025	1280745	(2135)	4280	1409699
DEOB PNNL+RW	104	104	104	0	0	36010	36010	36010	0	0	38866
DEOB HANFORD	0	0	0	0	0	14396	14396	14396	0	0	14914
DEOB OAKRIDGE	0	0	0	0	0	1441	1441	1441	0	0	1441
DEOB BRKHAVEN	0	0	0	0	0	758	758	758	0	0	372
DEOB SAIC (EIS)	85	85	85	0	0	4988	4988	4988	0	0	4988
DEOB SAVANNAH RIVER	0	0	0	0	0	1439	1439	1439	0	0	4211
DEOB ARGONNE	0	0	0	0	0	909	909	909	0	0	1353
DOE EXPENSE	163	163	163	0	0	12527	12527	12527	0	0	16337
DOE MR	0	0	0	0	0	0	0	0	0	0	1841
NON-PROJECT	(56)	(65)	(38)	(9)	(27)	(15151)	(15042)	(14956)	109	(86)	(17749)
NYS CREDIT	(310)	(310)	(310)	0	0	33604	33604	33604	(0)	0	33370
RELOCATION	0	0	0	0	0	1179	1179	1179	0	0	1179
TOTAL THRU PHASE I	22366	21219	21574	(1147)	(355)	1379260	1377233	1373039	(2026)	4194	1510822
NON-PH I ADJ (2)	(5627)	(4348)	(4196)	1279	(152)	(89356)	(87868)	(85646)	1488	(2222)	(135269)
TOTAL TPCE PHASE I	16739	16871	17378	132	(507)	1289904	1289366	1287393	(538)	1973	1375552

NOTES: (1) ALL ENTRIES IN THOUSANDS OF DOLLARS - SUM OF THE PARTS MAY VARY FROM TOTAL DUE TO ROUNDING



## \* \* \* PROJECT RESERVE TRANSACTIONS \* \* \*

TYPE OF	TRANS	CHANGE DESCRIPTION	APPRVL DATE	PRIOR ..\$M.	FY-97 ..\$M.	FY-98 ..\$M.	..TOTAL ....\$M.
107200	- WVNS MR	BEGINNING BALANCE:			1.37	1.45	2.82
PMB	97110	103210 - RET 40K TO WVNS MR FROM PP 957 (ASBESTOS MGMT). REQUEST 40K FROM WVNS MR TO WP 175 (COMPUTER PROCUREMENTS) FOR THE PURCHASE OF COMPUTER EQUIP NECESSARY TO UPGRADE THE DRAFTING CAD SYSTEM.	SEP-97				
CBB CR	97121	104200 - REQ 264K FROM DOE MR & 4936K FROM WVNS MR TO BE TRANS TO 104200083 (TAXES) TO RECONCILE THE BUDGET WITH A TAX LIABILITY OF 5200K. LIABILITY WAS ACCRUED AS DIRECTED BY LETTER #DW:97:0837.	SEP-97		-4.94		-4.94
ENDING BALANCE: SEP 30, 1997					-3.57	1.45	-2.12
107650	- DOE MR	BEGINNING BALANCE:			0.11	1.84	1.96
CBB CR	97111	DEOB .5M TO BATTELLE COLUMBUS FOR DEVELOPMENTAL WORK ON A CHEMICAL DECON PROCESS DSGN TO CHEM REMOVE TRU & HIGH ACTIVITY RADIONUCLIDES FROM CONTAMINATED MAT'L & EQUIP. TRANS 1M FROM DOE EXPNS TO DOE MR TO REFLECT EXPENDITURES BELOW BUDGET	SEP-97		0.50		0.50
CBB CR	97109	DEOB 350K FROM DOE MR TO PNNL TO EXPAND EXISTING PCT MODEL VALIDITY RANGE TO COVER A NO THORIUM, NO URANIUM CONTENT SCENARIO ASSOC W/HLW TRANS FROM 8D-2 TO VIT FAC TO ENSURE ACCEPTABILITY OF ALL PH I TANK HEEL RECOVERY & OXALIC ACID WASH GL	SEP-97		-0.35		-0.35
CBB CR	97121	104200 - REQ 264K FROM DOE MR & 4936K FROM WVNS MR TO BE TRANS TO 104200083 (TAXES) TO RECONCILE THE BUDGET WITH A TAX LIABILITY OF 5200K. LIABILITY WAS ACCRUED AS DIRECTED BY LETTER #DW:97:0837.	SEP-97		-0.26		-0.26
ENDING BALANCE: SEP 30, 1997						1.84	1.84



# COST PERFORMANCE REPORT - PROBLEM ANALYSIS - ESTIMATE AT COMPLETION

FORMAT 5

REPORT PERIOD  
SEPTEMBER  
FY-1997

PROJECT NAME/NUMBER  
WEST VALLEY DEMONSTRATION PROJECT  
(WVDP)

CONTRACT TYPE/NUMBER  
CPAF  
DE-AC24-81NE44139

INC.

CONTRACTOR:  
WEST VALLEY NUCLEAR SERVICES

LOCATION:  
P.O. BOX 191  
WEST VALLEY, NEW YORK 14171-0191

DOLLARS IN THOUSANDS

WBS	SEP.		SEP.		SEP.		SEP.		PRIOR		VAC		VAC		EXPLANATION
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	BAC	EAC	BAC	EAC	BAC	EAC	BAC	EAC	BAC	EAC	BAC	EAC	CHANGE		
1.1	451,022	451,022							0	0	0	0	0	0	
1.2	22,617	22,617							0	0	0	0	0	0	
1.3	345,405	345,405							0	0	0	0	0	0	
1.4	180,222	180,222							0	0	0	0	0	0	
1.5	196,229	196,229							0	0	0	0	0	0	
1.6	121,600	121,600							0	0	0	0	0	0	
	-----	-----							-----	-----	-----	-----	-----	-----	
	1,317,095	1,317,095							0	0	0	0	0	0	

NOTE: ALL DATA IS IN FY1997 DOLLARS

## COST PERFORMANCE REPORT - PROBLEM ANALYSIS - ESTIMATE AT COMPLETION

FORMAT 5

CONTRACTOR: WEST VALLEY NUCLEAR SERVICES CO., INC. LOCATION: P.O. BOX 191 WEST VALLEY, NEW YORK 14171-0191	CONTRACT TYPE/NUMBER CPAF DE-AC24-81NE44139	PROJECT NAME/NUMBER WEST VALLEY DEMONSTRATION PROJECT (WVDP)	REPORT PERIOD SEPTEMBER FY-1997
--	---	--	---------------------------------------

WBS IDENT.	DESCRIPTION	VARIANCE SCHEDULE/COST	NATURE OF PROBLEM	IMPACT	CORRECTIVE ACTION
			NO LEVEL TWO WBS ELEMENTS EXCEEDED THRESHOLD DURING THIS REPORTING PERIOD.		

ALL ENTRIES IN THOUSANDS OF DOLLARS  
\*INDICATES VARIANCE EXCEEDS THRESHOLD  
CURRENT VARIANCE +/- 20 PERCENT AND \$50K  
CUMULATIVE VARIANCE +/- 10 PERCENT AND \$100K  
NEGATIVE VARIANCES SHOWN IN PARENTHESES



# WEST VALLEY DEMONSTRATION PROJECT FINANCIAL REPORT

## FISCAL YEAR 1997

Contract Number: DE-AC24-81NE44139

Dollars expressed in thousands.

Reporting Period:  
September 1997

WBS Description	Prior Years Uncosted (C/O)	FY 1997 Funding to Date	Obligations Available to Date	FY 1997 Planned Budget **	FY 1997 Costs to Date	Outstanding Commitments to Date	Budget Planned to Date
101 HLW Solidification	577	27,028	27,605	28,096	16,235	11,370	22,177
103 Site Operations	3,405	30,369	33,774	31,569	33,647	127	30,956
104 Direct Project Support	28	20,145	20,173	20,941	18,900	1,273	20,511
105 Radwaste Treatment System	267	6,465	6,732	6,720	6,544	188	6,600
106 Phase II	9,793	27,305	37,098	28,384	20,524	16,574	20,973
Contingencies and Reserves	0	0	0	(3,568)	0	0	0
FEE (WH+DB)	0	0	0	11,086	11,212	0	11,212
SUBTOTAL DOE YA FUNDING	14,071	111,312	125,383	123,228	107,062	29,532	112,429
Other Ohio Office Obligations	288	912	1,200	0	610	590	610
TOTAL OHIO OFFICE	14,359 *	112,224 *	126,583	123,228	107,672	30,122	113,039
TOTAL DOE OBLIGATIONS ***	1,548	4,696	6,244	10,330	1,932	4,312	1,932
EX33 PROJECT OBLIGATED FUNDS	15,907	116,920	132,827	133,558	109,604	34,434	114,971
Unobligated Funds:	0	0	0	0	0	0	0
TOTAL EX33 PROJECT FUNDING FY97:	15,907	116,920	132,827	133,558	109,604	34,434	114,971
NYSDERDA NE Project (SDA Share)	0	0	0	0	0	0	0
NYSDERDA NE Proj. (EIS Share) + Fee	0	455	455	455	410	45	410
NYSDERDA NS Project + Fee	1,767	11,690	13,457	13,457	11,626	1,831	11,626
NYSDERDA Credit	0	1,301	1,301	1,301	600	0	600
NYSDERDA NY Non-Project + Fee	0	0	0	0	34	0	34
TOTAL WVNS PROJECT:	17,674	130,366	148,040	148,771	122,240	36,310	127,607
Non-Project Funding:							
Fuel Shipout (WB/WD)	819	443	1,262	1,262	641	621	641
Non-Project Fee	44	46	90	90	68	0	68
TOTAL WVDP:	18,537	130,855	149,392	150,123	122,949	36,931	128,316

\* Data reflects September FIS and current AFP minus DOE Ohio office SAIC & PNNL.

\*\* BCWS is planned based upon \$116.9M FY97 DOE funding plus \$15.9M prior years uncosted DOE funds.

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



**WEST VALLEY DEMONSTRATION PROJECT FINANCIAL REPORT**  
**FISCAL YEAR 1997**  
 DOE Obligations Breakout

Contract Number: DE-AC24-81NE44139

Dollars expressed in thousands.

Reporting Period:  
 September 1997

WBS Description	Prior Years Uncosted (C/O)	FY 1997 Funding to Date	Obligations Available to Date	FY 1997 Planned Budget **	FY 1997 Costs to Date	Outstanding Commitments to Date	Budget Planned to Date
DOE Obligation: Argonne Labs	2	0	2	2	1	1	1
DOE Obligation: PNNL (RL + OH)	709	1,335	2,044	3,594	1,271	773	1,271
DOE Obligation: Fluor Daniel Hanford	24	0	24	518	0	24	0
DOE Obligation: Oakridge Assoc. Univ.	0	0	0	0	0	0	0
DOE Obligation: Idaho (SAIC - EIS)	2	0	2	0	0	2	0
DOE Obligation: Savannah River	2	2,700	2,702	2,772	0	2,702	0
DOE Obligation: Albuquerque	6	0	6	0	0	6	0
DOE Obligation: Nevada	3	0	3	0	0	3	0
DOE Obligation: Ohio (SAIC)	620	661	1,281	1,904	655	626	655
DOE Obligation: Idaho	84	0	84	0	17	67	17
DOE Obligation: Rocky Flats (SAIC Non-EIS)	0	0	0	0	(12)	12	(12)
DOE Obligation: Headquarters	96	0	96	1,540	0	96	0
<b>TOTAL DOE OBLIGATIONS</b>	<b>1,548</b>	<b>4,696</b>	<b>6,244</b>	<b>10,330</b>	<b>1,932</b>	<b>4,312</b>	<b>1,932</b>

\* Data reflects September FIS and current AFP minus DOE Ohio office SAIC & PNNL.

\*\* BCWS is planned based upon \$116.9M FY97 DOE funding plus \$15.9M prior years uncosted DOE funds.

DRAFT  
West Valley Demonstration Project Milestone Listing

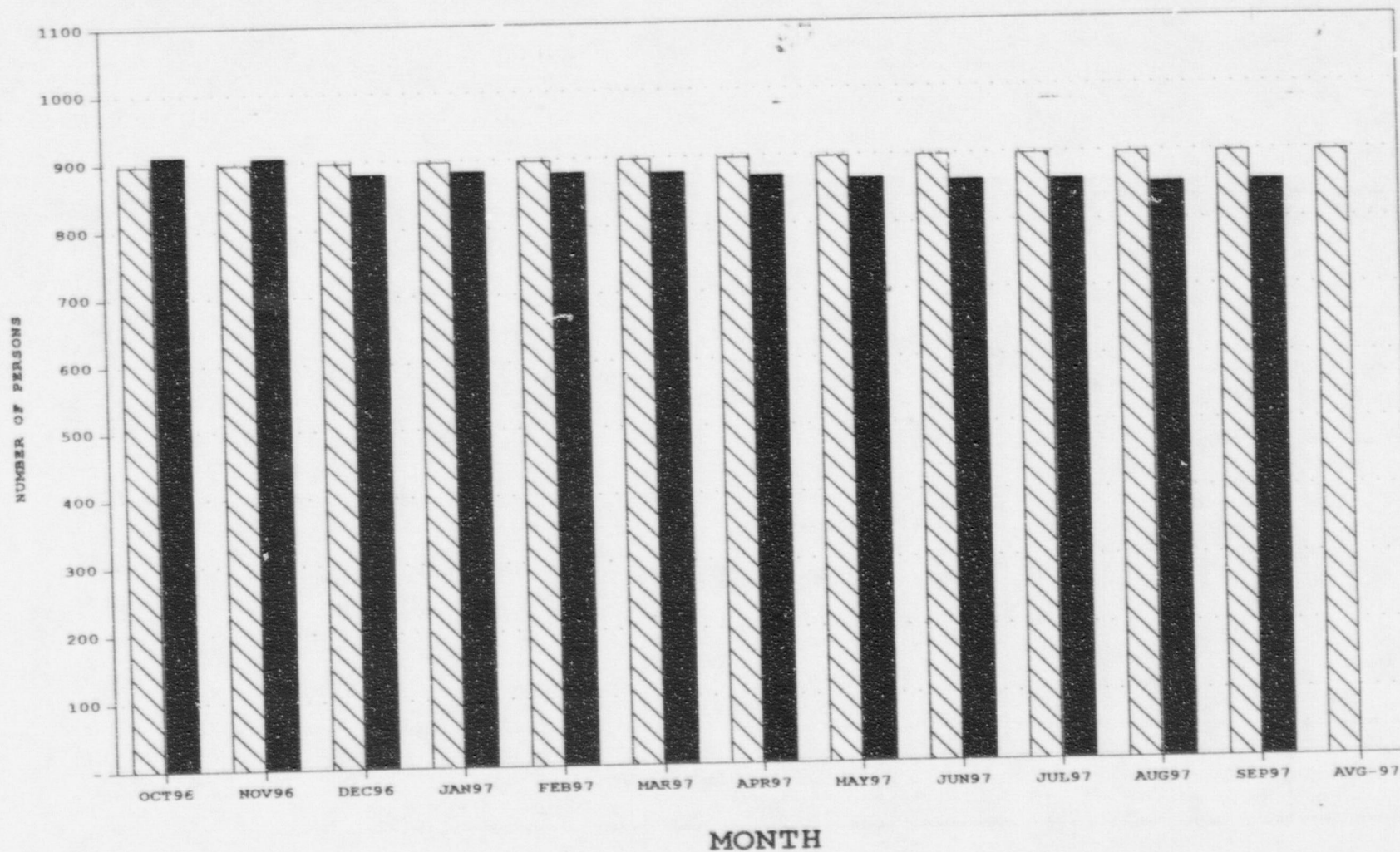
CONTROL LEVEL				MILESTONE DESCRIPTION	DATE	STATUS
Level 0 (AE)	Level 1 (PSO)	Level 2 (DOE-WV)	Level 3 (WVNS)			
#0001 1				KEY DECISION - RETURN SITE TO NEW YORK STATE	TBD	
#6001 106100				PUBLISH PHASE II RECORD OF DECISION (ROD)	OCT-97	BEING REPLANNED
#0002 1				COMPLETE PROJECT PHASE I	JUN-98	
	#6002 106100			PUBLISH FINAL PHASE II ENVIRON IMPACT STMT (EIS)	JUN-97	BEING REPLANNED
	#1004 101241			COMPLETE VIT SYSTEM RADIOACTIVE OPERATIONS (REDUCE 8D-2 LEVEL TO HEEL)	JUN-98	
		#6106 106350		TRANSITION END POINTS FOR WASTE TANK FARM	DEC-96	DEC-96 COMPLETE
			#1137 101241	SOLIDIFY 40 CUBIC METERS OF HIGH-LEVEL WASTE	SEP-96	DEC-96 COMPLETE
			#6087 106330	PMC/GPC CRANE MOD SPECS	JAN-97	DEC-96 COMPLETE
			#6109 106330	DESIGN OF A NEW MOBILIZATION PUMP AND REPAIR OF PUMP 55-G-003	FEB-97	FEB-97 COMPLETE
			#6089 106330	COMPLETE STUDY/PROVIDE RECOMMENDATION FOR HLW SHIPOUT	MAR-97	MAR-97 COMPLETE
			#3114 103520	ESTABLISH TWO-PART EMERG MGMT PROGRAM PER DOE O 151.1	MAR-97	FEB-97 COMPLETE
			#6110 106330	DESIGN OF A NEW DECANT PUMP FOR TANK 8D-2	APR-97	APR-97 COMPLETE



DRAFT West Valley Demonstration Project Milestone Listing						
CONTROL LEVEL				MILESTONE DESCRIPTION	DATE	STATUS
Level 0 (AE)	Level 1 (PSO)	Level 2 (DOE-WV)	Level 3 (WVNS)			
			#3113 103520	UPDATE WWD-139 PER DOE O 151.1 IMPLEMENTATION	JUN-97	MAY-97 COMPLETE
			#6111 106330	DESIGN OF A NEW OR MODIFIED HLW SOLIDS TRANSFER EQUIPMENT	JUN-97	JUN-97 COMPLETE
			#6108 106610	DEMONSTRATE SOIL SORTING SYSTEM (50 BOXES)	JUN-97	JUN-97 COMPLETE
			#3106 103300	DEVELOP PERSONNEL MOBILIZATION PLAN	JUL-97	JUL-97 COMPLETE
			#1139 101241	TREAT 5.25M CURIES OF HLW	SEP-97	SEP-97 COMPLETE
			#3116 103520	CONDUCT A SITE EVACUATION EXERCISE	SEP-97	SEP-97 COMPLETE
			#5034 105110	VOL REDUCT OF 10,000 CU. FT. LLW CONTAINERS IN LAG	SEP-97	SEP-97 COMPLETE
			#5035 106610	SHIP 50 B-25 BOXES OF CLASS A LLW	SEP-97	SEP-97 COMPLETE



# FY 1997 LABOR SUMMARY 30-SEP-97 WVNS PERSONNEL



LABOR BUDGETED	897	897	897	897	897	897	897	897	897	897	897	897
ACTUAL HEADCOUNT	910	906	881	883	879	877	870	865	860	859	853	855

LABOR BUDGETED  
 ACTUAL HEADCOUNT

EXCLUDES 11 CASUALS