



# Section C:1

## *Nuclear Material Stabilization*

### **PROJECT MANAGERS**

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## **SUMMARY**

The Nuclear Material Stabilization mission consists of the Plutonium Finishing Plant (PFP), WBS 1.4.5 and 1.4.6.1. (PBS TP05 & TP12)

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of September 30, 2000. All other information is as of October 9, 2000 unless otherwise stated.

### **Top 5 Accomplishments for FY 2000**

The NMS has worked over 1,000,000 safe hours since the last lost time injury, equivalent to 323 days, since the last workday injury in December 1999 (Progress).

Process improvements and installation of three additional muffle furnaces in March 2000 resulted in the thermal stabilization of more than 650 plutonium-bearing items during FY 2000. Additionally, emergent safety concerns led to the oxidation or repackaging of thirteen (13) additional “higher risk” metal items. This year’s results represent a four-fold increase over last year’s production level. Additionally, limited off-site shipment of stabilized material has been initiated (Progress).

The accelerated startup of the residue packaging process in September, initially packaging imported Rocky Flats ash, was accomplished through successful negotiations between the Department of Energy, Fluor Hanford Inc., and the Washington State Department of Ecology. This resulted in a Tri-Party Agreement that established: 1) an interim Tri-Party Agreement milestone for an April 30, 2001 completion of Rocky Flats ash packaging; and 2) authorized temporary storage of packaged ash in the PFP. Packaged residue materials are scheduled for future shipment to the Waste Isolation Pilot Plant (WIPP) in New Mexico (Progress).

The startup operation of the magnesium hydroxide precipitation process, initiated in September, is converting potentially volatile plutonium nitrate acid solutions to a stable oxide form thereby reducing a significant safety risk. The PFP’s accredited Integrated Environment, Safety and Health Management System (ISMS) was an integral factor in the system design that optimized efficiency and safety through employee involvement (Progress).

Operation of an automated state-of-the-art system known as the Bagless Transfer System (BTS) began September 30, 2000, at the PFP. This system, designed and fabricated by Westinghouse Savannah River Company, accelerates packaging capabilities and reduces radiation exposure through automated packaging of plutonium-bearing material in welded stainless steel containers (Department of Energy Standard, DOE-STD-3013-99) for long term storage. The outer container packaging welder system is scheduled for operation in spring of 2001, providing the complete DOE-STD-3013-99 packaging capability. A second inner container packaging system, currently scheduled for operation in late summer of 2001, will double the thermal stabilization capability and eliminate “building to building” material transfers (Progress).

## **Additional FY 2000 Accomplishments**

### **Progress**

The Defense Nuclear Facilities Safety Board (DNFSB) noted substantial improvements in the PFP criticality safety program. Areas of improvement include independent assessment and oversight, training, and better contractor ownership with strong formal self-assessments.

The Facility Evaluation Board (FEB) conducted an annual assessment of the PFP and concluded that overall plant performance has improved during the past 2 years. Areas making significant progress include radiation protection, OSHA, emergency management, and engineering.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that seven of thirteen milestones (54 percent) were completed on or ahead of schedule, four (31 percent) were completed late, and two (15 percent) are overdue. Further details can be found in the milestone exception report following the cost and schedule variance analysis.

## **ACCOMPLISHMENTS THIS REPORTING PERIOD**

### **Maintain Safe and Compliant PFP**

- Through October 18, 2000, there have been more than 1,000,000 hours, equivalent to 323 days, since the last workday injury in December 1999.
- Installation and testing of backflow preventers within the Plutonium Finishing Plant (PFP) continued. Currently backflow preventers have been installed, tested, and are operating on fire risers #5, #6, #8, and #9. This FY 2001 milestone activity (TRP-01-511) remains on schedule to a June 2001 completion.

### **Oxides/Metals/Polycubes Stabilization**

- Thermally stabilized over 135 items during September contributing to the thermal stabilization of more than 650 plutonium-bearing items during FY 2000.
- Thermal Stabilization successfully opened, brushed, and transferred two metal items to the BTS for placement into a welded can and return to vault storage. Stabilization of one item and transfer out using a BTS can was one of the stretch goals for PFP.
- Milestone TRP-00-503, "*Complete Air Operating Permit/Environmental Protection Agency (AOP/EPA) review for alloy processing and issue the Notice of Construction by September 30, 2000*", was completed September 26. The muffle furnace Notice of Construction (NOC) has been revised and was approved by the Washington State Department of Health. This NOC includes brushing and repackaging as a stabilization process that may be used for metals and alloys. A new source review applicability evaluation was completed which showed submittal to the Washington State Department of Ecology was not required.

## **Residue Stabilization**

- Startup of the Pipe-n-Go process was achieved September 11, 2000. This milestone effort was preceded by discussions between RL, FH and the Washington State Department of Ecology (Ecology), that established 1) an interim Tri-Party Agreement milestone for an April 30, 2001 completion of Rocky Flats ash packaging, and 2) authorized temporary storage of packaged ash in the PFP.

## **Solutions Stabilization**

- Completed DOE ORR.
- DOE authorization to begin operation received on September 18, 2000
- Initiated Phase 1 of the Startup Plan, Start Hot Runs, on September 20, 2000
- Conducted hot runs through October 5, 2000 (includes extension due to Site Fire)
- Met the threshold amount identified in the Performance Incentive, to allow earning stretch fee
- Supplement Analysis to the Environmental Impact Statement (EIS) approved by the RL Manager
- Revision to the NOC was approved, permitting processing of solutions up to a molarity of five

## **Safe and Secure SNM**

- Finalized NDA confirmatory measurements of five ash standards for Pipe-n-Go
- Completed NDA measurements of five metal standards using neutron coincidence counter in support of BTS

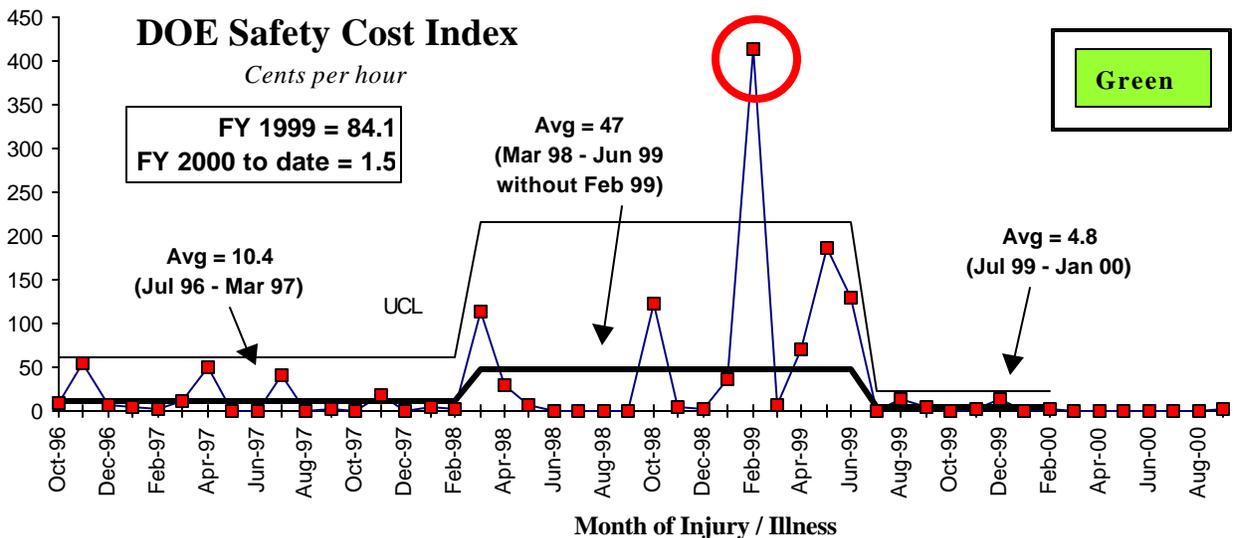
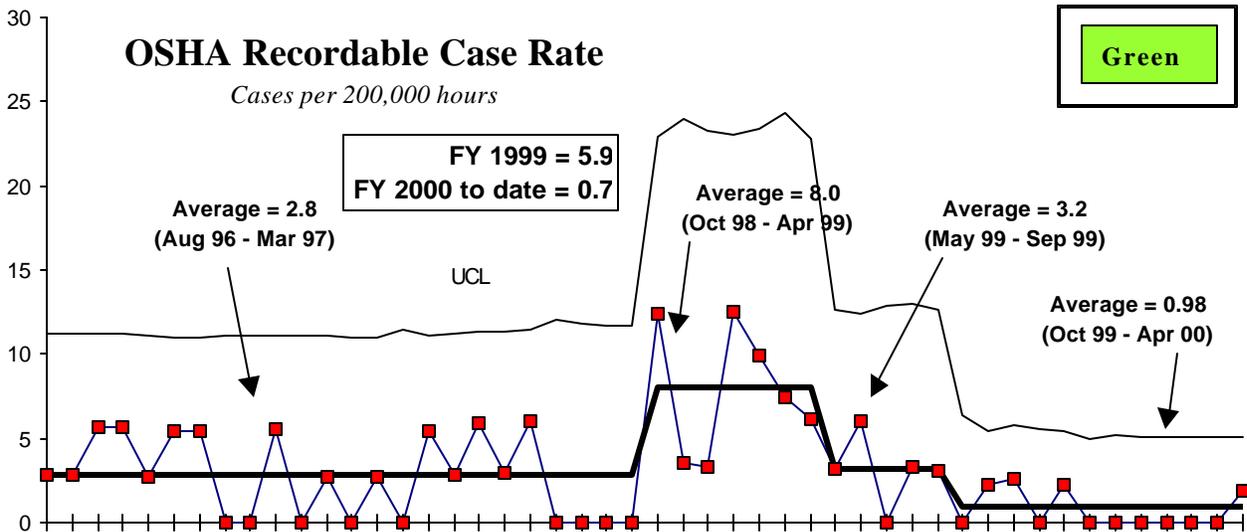
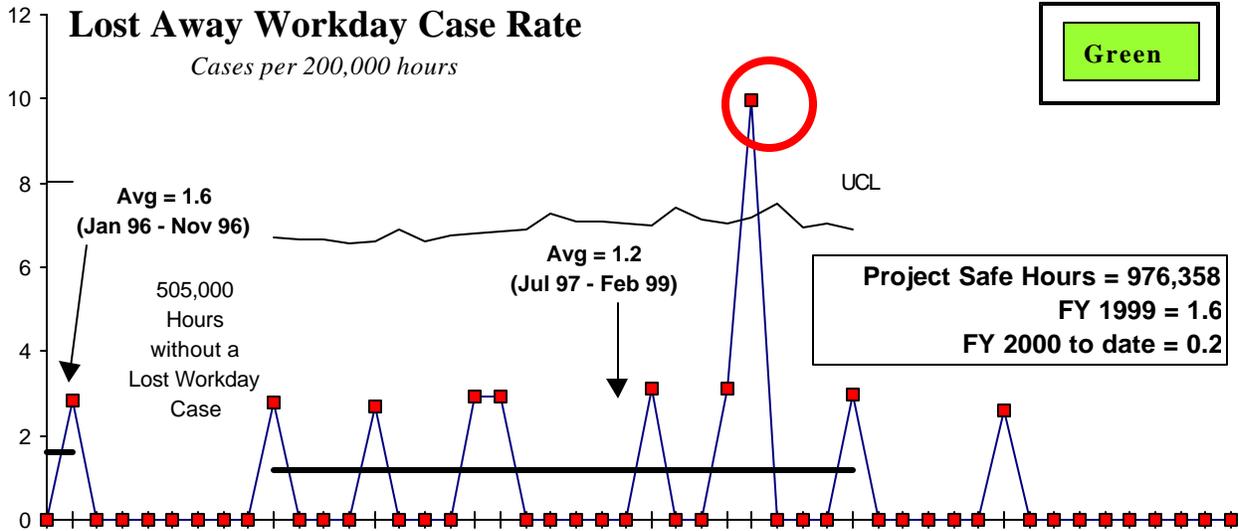
## **Project W-460**

- Startup operation of the 234-5Z BTS was initiated September 30, 2000 following a successful readiness review and authorization by RL. This system accelerates packaging capabilities and reduces radiation exposure through automated packaging of plutonium-bearing material in welded stainless steel containers (Department of Energy Standard, DOE-STD-3013) for long term storage.

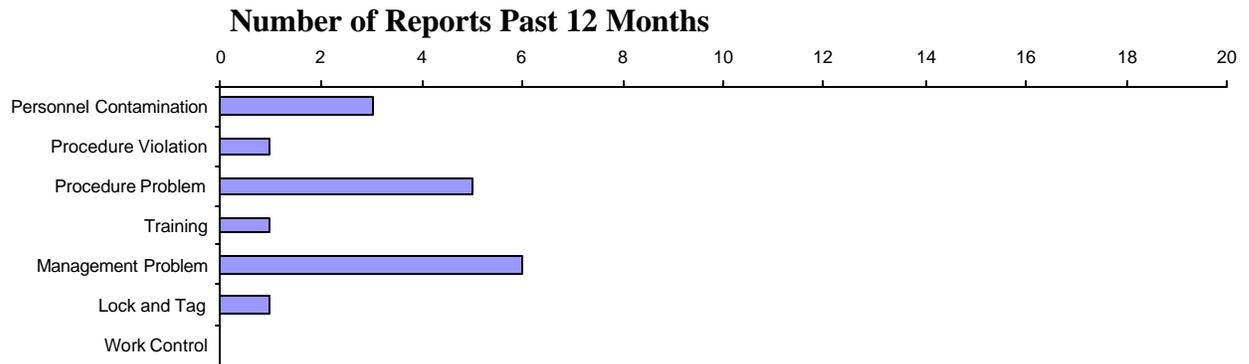
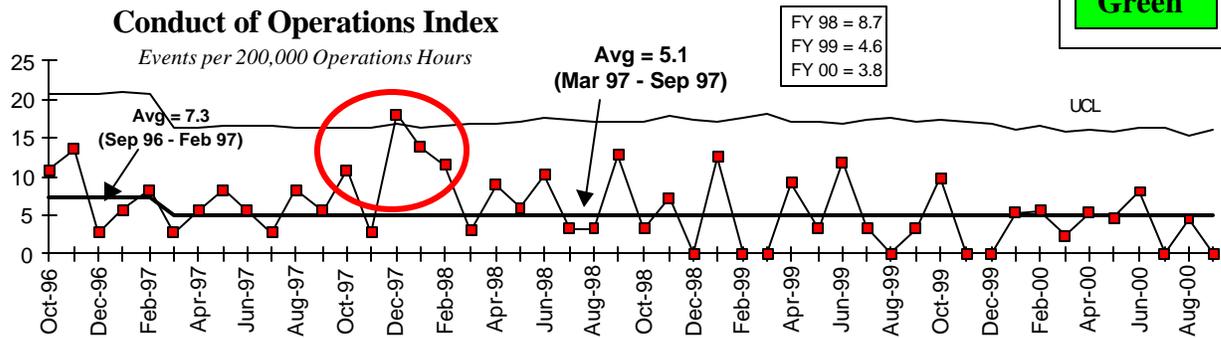
## **SAFETY**

Lost Away Workday Case Rate has had a significant decrease, with fourteen of fifteen months at zero. The current rate is exceptionally low. Occupational Safety and Health Act (OSHA) recordable case rate is stable and there have been more than 1,000,000 hours since the last OSHA recordable case. They have steadily reduced their OSHA recordable case rate through FY 1999 and FY 2000. This is a significant improvement in comparison to the adverse trend of spring 1999.

FY 2000 OSHA case rate and DOE Safety Cost Index are very favorable. DOE Safety Cost Index has been below average for eight months in a row. The Index has a new average and new control limits reflecting the significant decrease noted earlier in the year.



## CONDUCT OF OPERATIONS / ISMS STATUS



## ISMS STATUS

Continued safety improvements at PFP through ISMS:

**Green**

- Refinement of the Automated Job Hazards Assessment (AJHA) tool and increased worker involvement.
- Continued improvement in pre-job safety briefings.
- Improved field walk down of job sites.
- Improved metrics for work management and document development.

## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

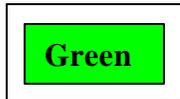
**Green**

### Breakthroughs

- Facilitated an agreement with Rocky Flats Environmental Test Site to purchase Outer Cans from Vendor and replace later. This resulted in avoiding a two-month schedule delay on the Outer Can Welder (OCW).

## Opportunities for Improvement

- FH has scheduled an early November, 2000 visit to the Westinghouse Savannah River Company (WSRC) to explore further opportunities for accelerated delivery of the 2736-ZB Bagless Transfer System and the OCW. Currently these items are expected to be shipped on January 8, 2001 and February 14, 2001, respectively.
- Exposure Reduction** – Work continues on the ability to allow multiple tasks to be completed during a single zone entry. Ergonomic investigations reduced the likelihood of using heavy lead vests to reduce exposure. Development of new shielding and monitoring equipment continues.



## UPCOMING ACTIVITIES

- Complete installation and startup of the Supercritical Fluids Extraction equipment for Loss-on-Ignition moisture measurement in the first quarter of FY 2001.
- Delivery of the 2736-ZB BTS and OCW is expected during the second quarter of FY 2001.
- Stabilization and packaging of polycubes consistent with DOE Standard DOE-STD-3013-99 is scheduled to begin in the third quarter of FY 2001.

## COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
<b>Nuclear Materials Stabilization</b>	\$123.1	\$124.5	-\$1.4

The \$1.4 million (1 percent) unfavorable cost variance is below the established variance reporting threshold. This performance does not reflect the NMS portion of PBS TP-12. The overall cost variance, if TP-12 were factored in, would be a slightly favorable cost variance.

## SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
<b>Nuclear Materials Stabilization</b>	\$123.1	\$123.9	- \$0.8

The \$0.8 million (1 percent) unfavorable schedule variance is below the established variance reporting threshold.

## FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES

### CUMULATIVE TO DATE STATUS – (\$000)

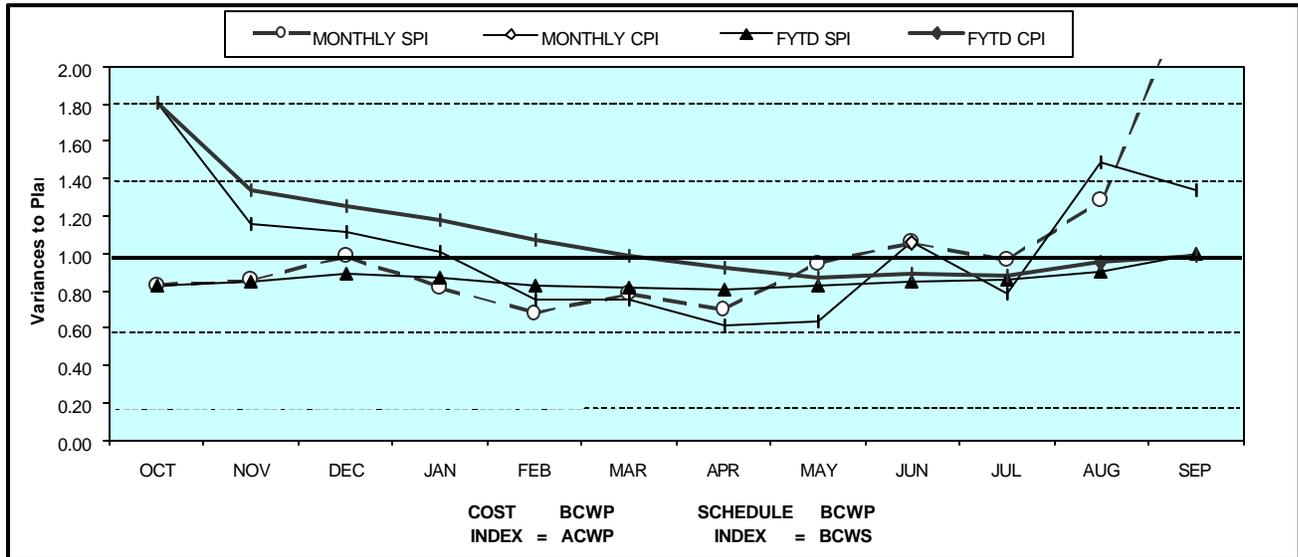
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By PBS		BCWS	BCWP	ACWP	SV	%	CV	%
WBS 1.4.5	FPF							
PBS TP05	Deactivation	\$ 123,869	\$ 123,054	\$ 124,473	\$ (815)	-1%	\$ (1,419)	-1%
<b>Total</b>		<b>\$ 123,869</b>	<b>\$ 123,054</b>	<b>\$ 124,473</b>	<b>\$ (815)</b>	<b>-1%</b>	<b>\$ (1,419)</b>	<b>-1%</b>

Authorized baseline as per the Integrated Planning Accountability, and Budget System (IPABS) – Project Execution Module (PEM). RL-Directed Costs (steam) are included in the PEM BCWS.

## COST/SCHEDULE PERFORMANCE INDICES (MONTHLY AND FYTD)

Green



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.83	0.85	0.98	0.82	0.68	0.78	0.70	0.95	1.06	0.96	1.28	2.48
MONTHLY CPI	1.81	1.16	1.11	1.01	0.75	0.75	0.61	0.64	1.06	0.79	1.49	1.34
FYTD SPI	0.83	0.84	0.89	0.87	0.83	0.82	0.81	0.82	0.85	0.85	0.91	0.99
FYTD CPI	1.81	1.34	1.25	1.18	1.07	0.99	0.93	0.87	0.89	0.88	0.95	0.99
MONTHLY BCWS	\$7,913	\$12,725	\$9,999	\$10,540	\$11,128	\$13,401	\$9,632	\$9,999	\$9,375	\$7,978	\$14,326	\$6,854
MONTHLY BCWP	\$6,543	\$10,873	\$9,849	\$8,638	\$7,567	\$10,480	\$6,704	\$9,474	\$9,910	\$7,664	\$18,379	\$16,977
MONTHLY ACWP	\$3,613	\$9,386	\$8,845	\$8,587	\$10,085	\$13,961	\$10,988	\$14,826	\$9,383	\$9,753	\$12,335	\$12,711
FYTD BCWS	\$7,913	\$20,638	\$30,637	\$41,177	\$52,305	\$65,706	\$75,338	\$85,336	\$94,711	\$102,690	\$117,015	\$123,869
FYTD BCWP	\$6,543	\$17,416	\$27,265	\$35,903	\$43,470	\$53,950	\$60,654	\$70,128	\$80,038	\$87,707	\$106,082	\$123,054
FYTD ACWP	\$3,613	\$12,090	\$21,844	\$30,431	\$40,516	\$54,477	\$65,465	\$80,202	\$89,675	\$99,427	\$111,762	\$124,473

## **COST VARIANCE ANALYSIS: (-\$1.4M)**

### **WBS/PBS**

### **Title**

#### **1.4.5.1.13/TP05      Stabilization of Nuclear Materials (-\$3.3M)**

**Description and Cause:** The unfavorable cost variance is due to additional resources required to support incremental design and installation workscope associated with the Mg(OH)<sub>2</sub> project that was not in the original basis of estimate.

**Impact:** Delays in completion of construction activities have occurred but were remediated through judicious use of supplemental staff.

**Corrective Action:** No corrective action necessary. Construction has been completed and startup operation of this process was initiated September 20, 2000. This variance is offset by under runs in Project Integration & Business Management (TP-012), positive credit variances (passbacks), fee allocation, and efficiencies in Safeguards & Security of nuclear material.

## **SCHEDULE VARIANCE ANALYSIS: (- \$0.8M)**

### **WBS/PBS**

### **Title**

#### **1.4.5.1.14/TP05      Disposition of Nuclear Material (-\$1.5M)**

**Description and Cause:** The unfavorable schedule variance is primarily due to delays in obtaining NOC approval from the Washington Department of Health for 2736-ZB facility construction modifications required to support installation of the second Bagless Transfer System.

**Impact:** A potential delay is possible in the startup of the 2736-ZB BTS that may impact stabilization objectives in FY 2001.

**Corrective Action:** Peripheral 2736-ZB construction activities and continued discussions to accelerate BTS delivery with fabricator WSRC are expected to at least partially mitigate this variance. This schedule variance is offset by the FY 2000 record setting performance in thermal stabilization.

**FUNDS MANAGEMENT  
 FUNDS VS ACTUALS (\$000)  
 FY TO DATE THROUGH SEPTEMBER 2000  
 (FLUOR HANFORD, INC. ONLY)**

	Project Completion *			Post 2006 *			Line Items *		
	Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance
The Plateau									
1.4.5 Nuclear Materials Stabilization									
TP05 Operating	115,637	113,770	1,867						
Line Item							18,178	11,383	6,795
<b>Total Nuclear Mat. Stab. Operating</b>	<b>\$ 115,637</b>	<b>\$ 113,770</b>	<b>\$ 1,867</b>						
Total Nuclear Mat. Stab. Line Item							\$ 18,178	\$ 11,383	\$ 6,795

\* Control Point

**ISSUES**

**Technical Issues**

Nothing to report at this time.

**DOE/Regulator/External Issues**

Nothing to report at this time.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN.	BASELINE CHANGE REQUEST TITLE	COST IMPACT \$000	S	C	H	T	E	C	H	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
FSP-2000-001	13-Oct-99	Delete TRP-99-419, Complete Install. of Production Scale Vertical Calciner	\$0								Canceled			On Hold
FSP-2000-043	1-May-00	Video Control Camera	\$67	X	X						Deferred to FY 2001			On hold due to budget constraints
FSP-2000-045	30-Nov-99	Realign PFP De-inventory SNM Shipments (Addendum I Revisions)	\$0	X	X						13-Sep-00	13-Sep-00	29-Sep-00	Complete
FSP-2000-050	8-Jun-00	Project W-460: Procure Calorimeters/Outer Can Welder	<\$1,640>	X	X						16-Jun-00	31-Aug-00	29-Sep-00	Complete
FSP-2000-051	15-Jun-00	HEPA Filter Vulnerability Assesment	\$38	X	X						Cancelled			
FSP-2000-053	1-May-00	Backflow Preventers	\$0	X	X						31-Jul-00	2-Aug-00	22-Aug-00	Complete
FSP-2000-061	13-Jul-00	Badgehouse X-ray Machine	\$400	X	X						31-Jul-00	31-Aug-00	N/A	Complete
FSP-2000-063	17-Jul-00	Rebaseline Project W-460	<\$5,456>	X	X						7-Sep-00	7-Sep-00	29-Sep-00	Complete
FSP-2000-069	20-Jul-00	Rebaseline TP-12, Transition Project Management (life cycle)	TBD	X	X						Deferred to FY 2001 with Phase II			In work
FSP-2000-062	20-Jul-00	PFP Residue Stabilization FY00 Rebaseline	<\$343>	X	X						13-Sep-00	13-Sep-00	In Work with RL	In work
FSP-2000-074	20-Jul-00	Rebaseline PFP Polycube Stabilization	<\$612>	X	X						13-Sep-00	13-Sep-00	29-Sep-00	Complete
FSP-2000-079	15-Aug-00	FY 2001 MYWP & Baseline Revisions	\$0	X	X						29-Aug-00	31-Aug-00	At RL	Approved 26-Oct-00
FSP-2000-088	21-Sep-00	Mg(OH)2 Precipitation Worksopce Increases	\$1,672				X				28-Sep-00	14-Sep-00	29-Sep-00	Complete
FH-2001-001	12-Sep-00	Base Ops Reduction for PHMC Projects	(\$6,790)				X						At RL	Draft Prepared
FH-2001-002	25-Sep-00	FY2001 Fee Reduction to 90%	(\$600)											Draft Prepared
FH-2001-003	25-Sep-00	FY2001 Addition of High Priority Worksopce	\$9,707				X							Draft Prepared
<b>ADVANCED WORK AUTHORIZATION</b>														
AWA-01-001		Tanks 241-Z-361 Incremental Work	\$250	X	X						10-Oct-00	10-Oct-00	18-Oct-00	Complete
AWA-01-002		PFP Parking Lot Enhancements	\$150	X	X									

## MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	1	1	0	0	0	0	0	2
DOE-HQ	0	0	0	1	0	0	0	1
RL	5	0	4	1	0	0	0	10
<b>Total Project</b>	<b>6</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>

Only TPA/EA milestones and all FY2000 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2000 TPA/EA milestone achievement and a Milestone Exception Report follows.

<b>Tri-Party Agreement / EA Milestones</b>	
Tri-Party Agreement Milestone M-15-37A (TRP-00-501), “ <b>Deliver Two (2) Tank Z-241-Z-361 Core Samples to 222-S</b> ”, due 10/30/99 • Completed 1 month early (9/28/99)	<b>Green</b>
Tri-Party Agreement Milestone M-015-37B (TRP-00-511), “ <b>Deliver Core Sample Data Packages for Tank 241-Z-361 Disp</b> ”, due 5/31/00 • Completed On Schedule	<b>Green</b>
<b>DNFSB Commitments</b>	
DNFSB Milestone IP-113 (TRP-00-500), “ <b>Install 2 LANL Pyrolysis Units for Stabilization of Polycubes at PFP</b> ”, due 12/31/99 • The Defense Nuclear Facility Safety Board (DNFSB) 2000-1 Implementation Plan update deletes this milestone in favor of stabilization via muffle furnaces.	<b>Green</b>

## MILESTONE EXCEPTION REPORT

<u>Number/WBS</u> <u>Date</u>	<u>Level</u>	<u>Baseline Milestone Title</u>	<u>Forecast Date</u>
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### OVERDUE – 2

<b>TRP-00-500</b>	HQ	Install Two Los Alamos National Laboratory (LANL) Pyrolysis Units for Stabilization of Polycubes	12/31/99	Deleted
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**Cause:** See DNFSB Commitment above.

**Corrective Action:** Baseline Change Request (BCR) FSP-2000-074 was approved on September 29 and authorizes removal of pyrolysis stabilization of polycubes and implements thermal stabilization in its stead has been approved by RL and implemented into the baseline.

<b>TRP-00-504</b>	RL	Restart Cementation Operations	04/21/00	Cancelled
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**Cause:** Stabilization processing has been re-sequenced. Startup of the Pipe-N-Go process packaged 29 Kg bulk residue (Rocky Flats Ash) in FY 2000. This milestone has been cancelled via BCR FSP-2000-079.

**Corrective Action:** None, as the global stabilization end point will remain the same.

### FY 1999 OVERDUE – 2

<b>TRP-99-419</b>	RL	Complete Installation of Production Scale Vertical Calciner	09/30/99	Proposed Deletion
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**Cause:** The production scale vertical calciner has been replaced with the Magnesium Hydroxide Precipitation process.

**Impact:** No impact. This milestone is obsolete.

**Corrective Action:** Since installation and testing of the production scale vertical calciner is an EM-65 Management Commitment; the RL change control process cannot remove this milestone. Solution

stabilization began on September 20, 2000.

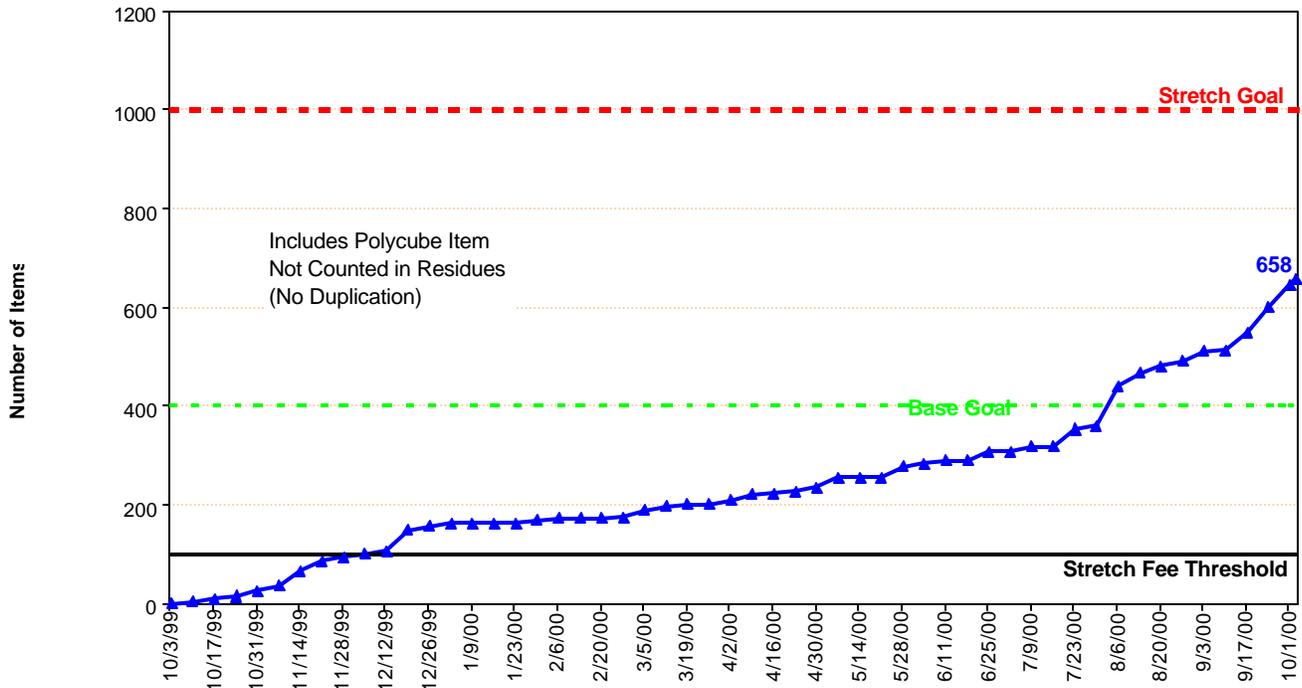
**TRP-99-500 HQ** Complete Installation & Testing of 09/30/99 Deleted  
**1.4.5** Production Vertical Calciner

**Cause:** The production scale vertical calciner has been replaced with the Magnesium Hydroxide Precipitation process.

**Impact:** No impact. This milestone is obsolete.

**Corrective Action:** The Defense Nuclear Facility Safety Board (DNFSB) 2000-1 Implementation Plan update deletes this milestone.

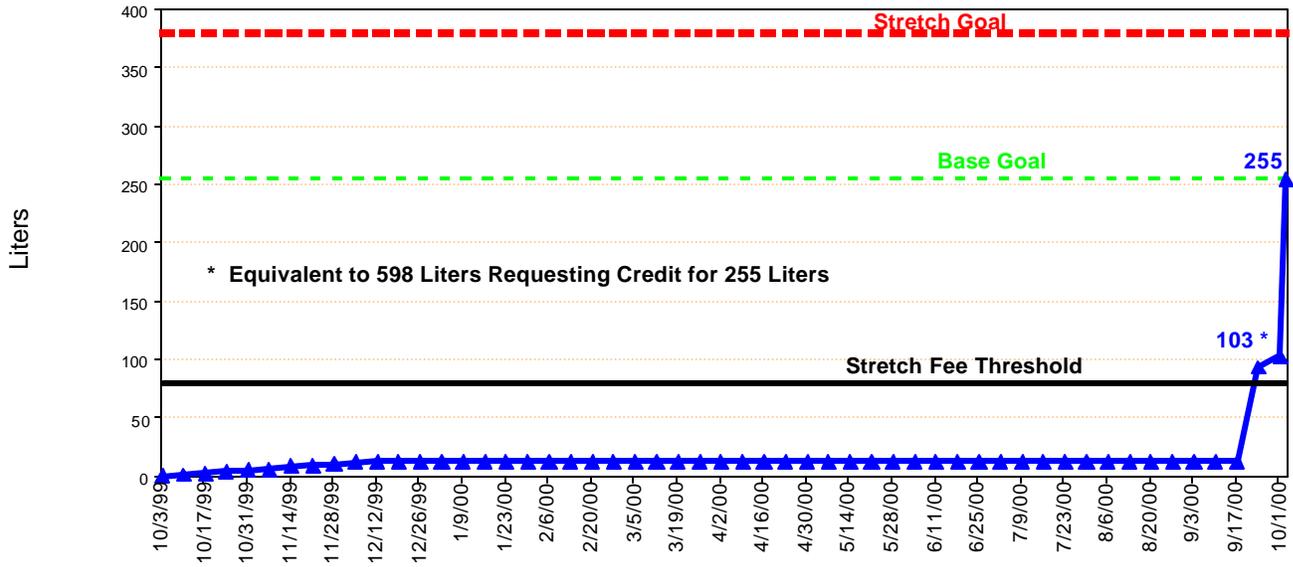
## PERFORMANCE OBJECTIVES Oxides/Metals/Polycubes Stabilization



	10/3	10/17	10/31	11/14	12/5	12/19	1/2	1/16	1/30	2/13	3/5	3/19	4/2	4/16	4/30	5/14	6/4	6/18	7/2	7/16	7/30	8/13	9/3	9/17	10/1	10/4	
Oxides Stretch Goal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Oxides Base Goal	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Oxides Actual	0	10	27	67	101	148	164	164	169	174	189	201	209	224	236	255	284	290	307	317	360	466	510	550	645	658	
Stretch Fee Threshold	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	

Thermal stabilization of more than 650 plutonium-bearing items during FY 2000 represented a four-fold increase over FY 1999's production level.

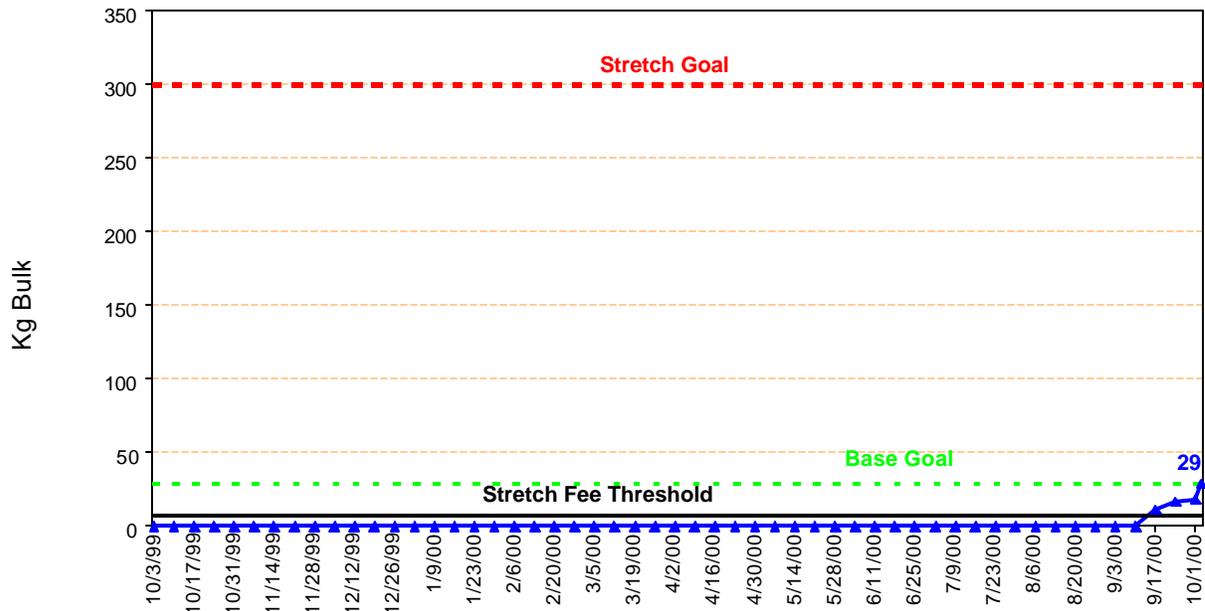
## Solution Stabilization



	10/3	10/17	10/31	11/14	11/28	12/12	12/26	1/9	1/23	2/6	2/20	3/5	3/19	4/2	4/16	4/30	5/14	5/28	6/11	6/25	7/9	7/23	8/6	8/20	9/3	9/17	10/1	10/5	
Solutions Stretch Goal	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	300
Solutions Base Goal	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
Solutions Actual	0	2	5	8	10	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	103	255	
Stretch Fee Threshold	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	

Operation of the Mg(OH)<sub>2</sub> process began September 20, 2000, and met the stretch goal gateway criteria .

## Residues Stabilization



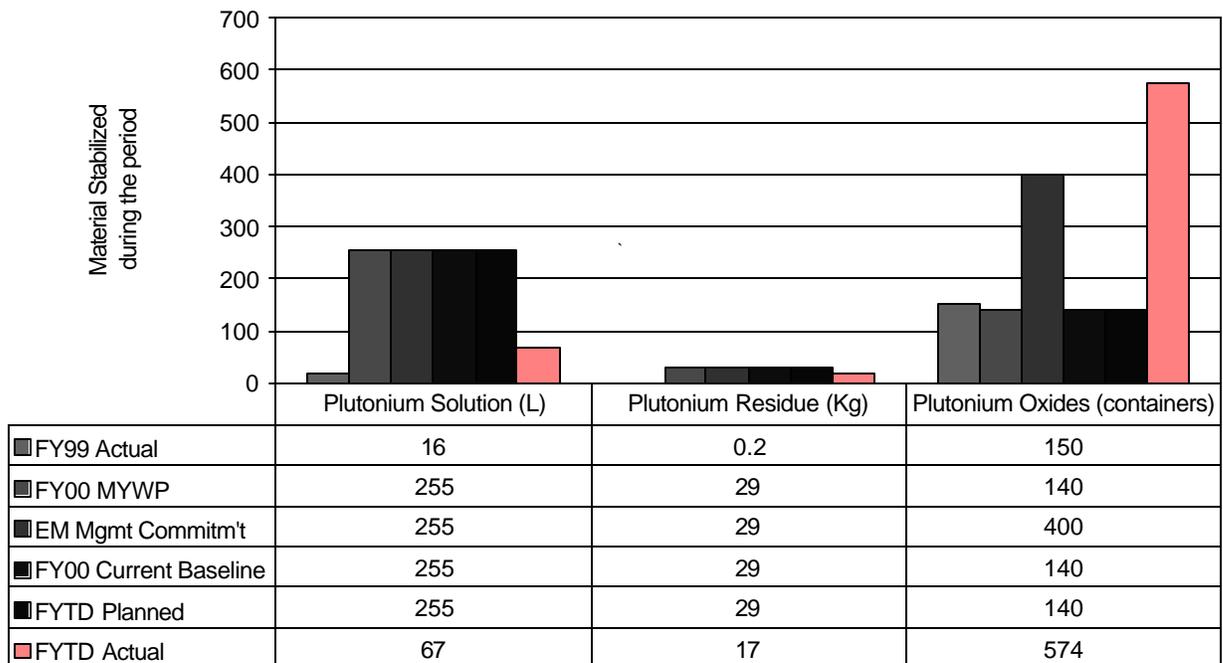
	10/3	10/17	10/31	11/14	12/5	12/19	1/2	1/16	1/30	2/13	3/5	3/19	4/2	4/16	4/30	5/14	6/4	6/18	7/2	7/16	7/30	8/13	9/3	9/17	10/1	10/4	
Residues Stretch Goal	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Residues Base Goal	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Residues Actual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.4	18.3	29
Stretch Fee Threshold	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

Repackaging of plutonium-bearing residues began September 11, 2000, and met the base goal target.

## KEY INTEGRATION ACTIVITIES

- Continued support to the Central Waste Complex in completing activities necessary to allow acceptance of packaged residues. This support included security upgrades and issuance of Criticality Safety Evaluation (CSER) and SARP documentation.
- FH has scheduled an early November 2000 visit to the WSRC to explore further opportunities for accelerated delivery of the 2736-ZB BTS and the OCW. Currently, these items are expected to be shipped on January 8, 2001, and February 14, 2001, respectively.

## NUCLEAR MATERIALS STABILIZED DURING THE CURRENT PERIOD



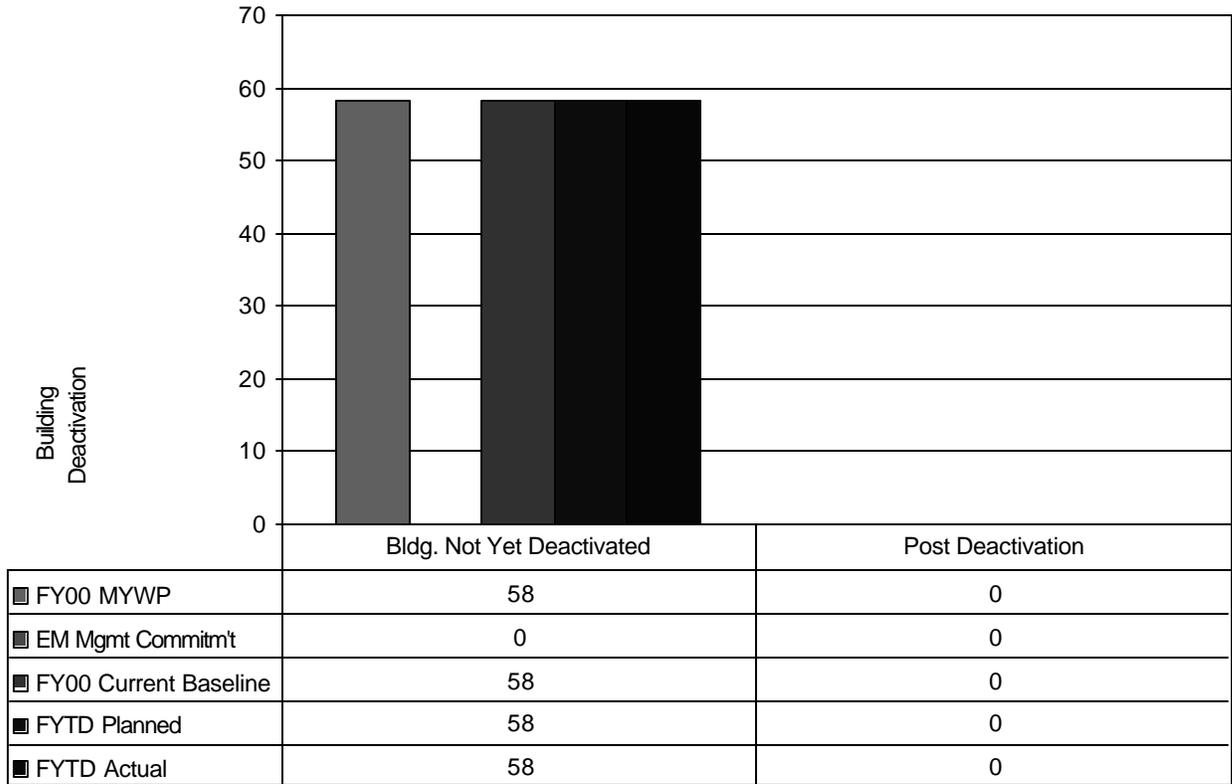
Pu solution actuals do not include allowances for fire impacts

**Plutonium Solution:** Implementation of the  $Mg(OH)_2$  process was 9 weeks later than planned resulting in less processing.

**Plutonium Residue:** Repackage of plutonium residues was initiated 8 weeks late after PFP implemented a pipe-n-go process method.

**Plutonium Oxides:** Approval of EIS via supplement analysis increasing charge size of furnaces by a factor of 4 and increasing the number of furnaces from 2 to 5 has allowed the actual stabilization to proceed faster than planned. In addition, metal/oxide stabilization was extended thru the fourth quarter as stabilizing the other forms of plutonium were implemented later than planned.

## BUILDING DEACTIVATION



**Buildings Not Yet Deactivated:** Deactivation of buildings will not begin until FY2009 as documented in the Integrated Project Management Plan for the River Corridor

**Post Deactivation:** There are no buildings in post deactivation.