

## SUMMARY

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

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of May 31, 2000. All other information is as of June 16, 2000 unless otherwise stated.

As of June 16, 2000 a total of 290 cans of Plutonium oxides and sludges have been stabilized through thermal stabilization (35 additional items since last report). A total of 13 liters of Plutonium nitrate solution have been stabilized in the prototype vertical denitration calciner [no change since December 1999 due to focus on Mg(OH)<sub>2</sub> Precipitation Process installation activities].

As of June 16, 2000, there have been 196 days without a lost workday injury, attributed to following Integrated Safety Management System (ISMS) principles.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that three of eight milestones (38percent) were completed on or ahead of schedule, one completed late (12 percent), and four (50 percent) are overdue. Three milestones were completed during this report period. Milestone M-15-37B, "Deliver 2 Validated Data Packages to EPA" was completed on schedule. TRP-00-415, "Complete Project W-460 Facility Design", and TRP-00-510, "Complete Annual Revision to the Integrated Project Management Plan (IPMP)" were also completed. An RL approved change in the preferred method for stabilization of residues/solution has resulted in a request to delete three milestones. These include; TRP-00-500, "Install Two LANL Pyrolysis Units for Stabilization of Polycubes," TRP-99-419, "Complete Installation of Production Scale Vertical Calciner", and TRP-99-500, "Complete Installation and Testing of Production Vertical Calciner." TRP-00-504, "Restart Cementation," is overdue because of re-sequencing of the stabilization processing. Cementation of Sand, Slag, and Crucible (SS&C) material processing will be delayed until FY 2001. Further details can be found in the milestone exception report following the cost and schedule variance analysis.

## ACCOMPLISHMENTS

### Maintain Safe and Compliant PFP

- As of June 16, 2000, there have been 196 days without a lost workday injury.
- Completed Tri-Party Agreement milestone, Deliver 2 Validated Data Packages To EPA (M-15-37B) by May 31, 2000 on schedule.
- The Facility Evaluation Board (FEB) conducted an annual assessment of the PFP and concluded that overall plant performance has steadily improved during the past 2 years.
- An assessment is currently underway to verify implementation of the Integrated Safety Management System (ISMS). Surveillance Operations Support has maintained a zero delinquency rate for Action Requests and Assignments for Corrective Action Management for the fifteenth consecutive week.
- Items identified by the Facility Evaluation Board are in review by the Deficiency Evaluation Group. Corrective actions are being implemented as reviews are completed.

## **Maintain Safe & Secure SNM**

- Completed monthly AD HOC International Atomic Energy Agency (IAEA) inspection and relocation of the agency's multiplexer (MUX) cabinet to room 635.
- Transferred material from the IAEA vault to room 642 in support of the IAEA inspectors setup and calibration of their new non-destructive assay (NDA) equipment.
- Supported transfers of material to/from Thermal Stabilization and performed NDA of newly stabilized material without impact to performance schedule.

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

- All five furnaces are now available for operation.
- Completed stabilization of 290 Pu oxide items as of June 16, 2000.
- Testing to demonstrate achieving the DOE-STD-3013 criteria for thermal treatment of oxides (950 degrees C for two hours) was completed for surrogates of oxides, Mg(OH)<sub>2</sub> and residues. This testing demonstrated that the criteria is being exceeded.
- Initiated opening and brushing of eight "at risk" Pu metal items in 2736-ZB, with two items completed as of June 12.

## **Solution Stabilization**

- The projected completion date for Mg(OH)<sub>2</sub> glovebox tie-in to 234-5Z building exhaust ventilation has improved from July 30 to July 19, 2000.
- Continue with double construction shifts (2 8-hour shifts, 6 days/week) to regain schedule from technical delays.
- Plan of Action for the Operations Readiness Review (ORR) being finalized prior to submittal to RL for approval.
- Equipment for the testing of the magnesium hydroxide process received from the Pacific Northwest National Laboratory (PNNL) was transferred to Glovebox 179-4 on June 16, 2000.
- A draft report on the thermal stabilization furnace temperature tests is being prepared.

## **Polycube Stabilization**

- Laboratory testing of Polycubes was completed and a report was issued to DOE-RL. Testing shows that an 800 gram charge can be safely stabilized via oxidation in a muffle furnace.

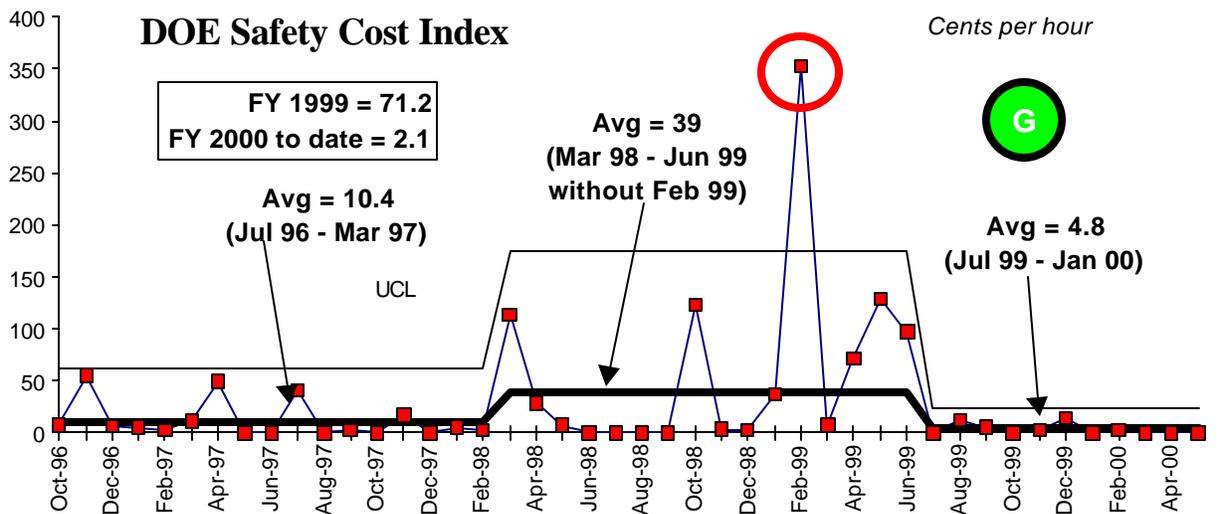
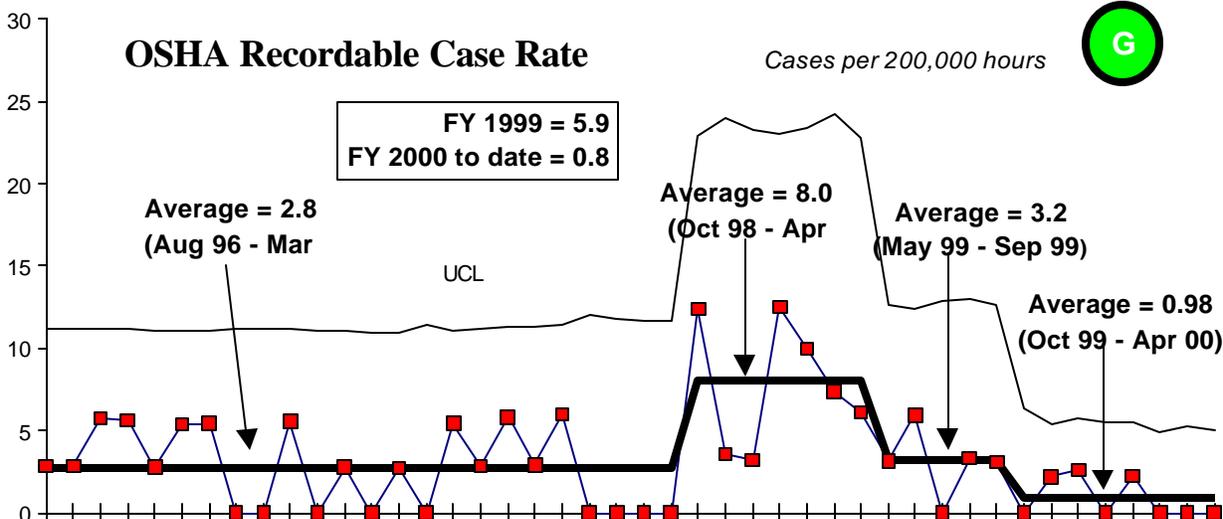
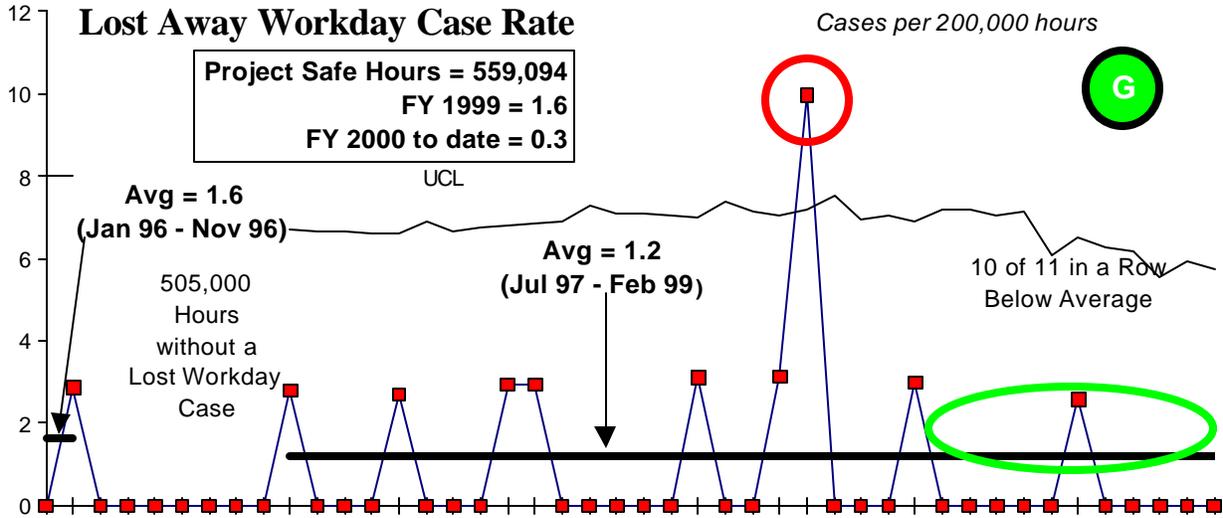
## **Project W-460**

- Completed Milestone TRP-00-415, Project W-460 Facility Design with minimal schedule delays.
- The Washington State Department of Health has approved the Notice of Construction (NOC) for the 234-5Z Bagless Transfer System (BTS).
- Received BTS unit from SRS for installation into 234-5Z.
- An existing FMEF glove box has been approved for use at PFP with the 234-5Z BTS.
- The outer can welder mock-up began operation on June 15, 2000. This activity will provide pre-startup training and procedure verification.
- Order for 2nd BTS unit has been placed and the Memorandum of Understanding (MOU) has been approved.

## **SAFETY**

Safety performance continued to be excellent in May with no OSHA Recordable or Lost Workday Case injuries.

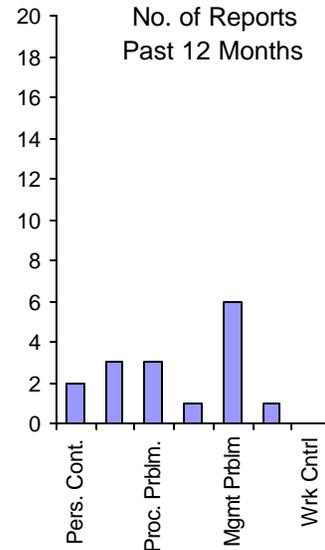
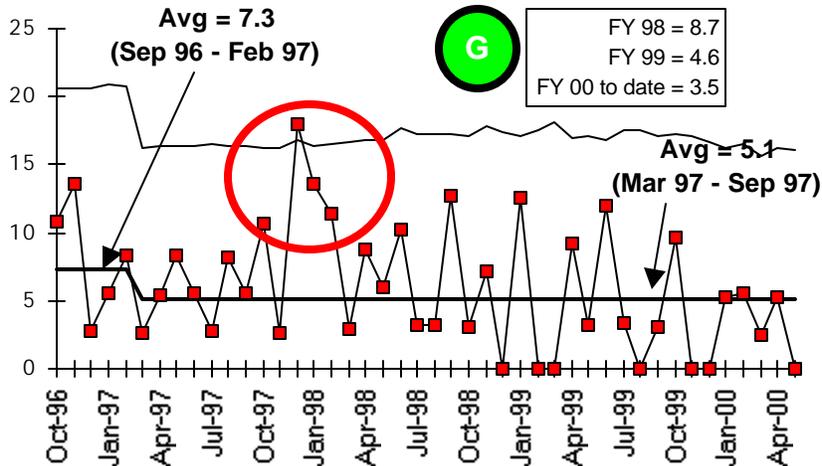
The DOE Safety Cost Index has both a new average and control limits reflecting the significant decrease noted earlier in the year. FY 2000 OSHA case rate and DOE Safety Cost Index are very favorable. OSHA recordable case rate has significantly improved in comparison to the adverse trend of Spring 1999. As of June 16, 2000 there have been 196 days without a lost workday injury.



## CONDUCT OF OPERATIONS / ISMS STATUS

### CONDUCT OF OPERATIONS

Events per 200,000 Hours



### ISMS STATUS

Green

- All action items resulting from the Nuclear Material Stabilization Project Phase 1 verification assessment of the Integrated Safety Management System implementation has been completed.
- Phase II verification has been initiated.

## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

### Breakthroughs

- Implementation of a WIPP "validated" plutonium measuring nondestructive assay (NDA) system in FY 2000 continues. The equipment necessary to upgrade the Segmented Gamma Scanner will be delivered by the end of June.
- Identified method to repair the existing floor in room 192D instead of replacement, which reduces schedule impact, radiological concern and waste disposal costs.
- Recommendations for modification of Personnel Security Assurance Program (PSAP) two-man rule requirements, which would provide a potential reduction of resources for facility surveillance and maintenance activities, was submitted to RL for review and approval. Protection Technology Hanford began training managers responsible for PSAP June 16, 2000.

## Opportunities for Improvement

- The new Criticality Safety Evaluation Report (CSER) allowing an additional boat in HC-18BS was approved at PFP. The Criticality Prevention Specification (CPS) has been drafted and is in review. Installation of a 234-5Z BTS unit provides the opportunity to accelerate packaging to DOE Standard 3013 criteria and significantly reduces overall radiation exposure to staff.
- Implement ALARA dose reduction measures:
  - Robotic (remote surveillance)
  - Room 638 cage shielding
  - Full scale mock-up vault cubicles
- Contracted with Westinghouse Savannah River Company to provide Outer Can Welder. This will allow review and approval by 3013 Design Authority and ensure final approvals will be expedited.

## UPCOMING ACTIVITIES

- Begin Pu solution stabilization via  $Mg(OH)_2$  in the fourth quarter of FY 2000.
  - Complete glovebox installation in July 2000.
  - Complete ORR and training activities for stabilization activities in room 230-C in September 2000.
- Startup Residues operations in fourth quarter of FY 2000.
- Complete installation and startup of the 234-5Z Bagless Transfer System (BTS) in fourth quarter of FY 2000.
- Begin metal stabilization processing in November 2000.
- Initiate polycube stabilization in first quarter of FY 2001.

## COST PERFORMANCE (-\$10.2M):

	<b>BCWP</b>	<b>ACWP</b>	<b>VARIANCE</b>
<b>Nuclear Material Stabilization</b>	\$70.1	\$80.3	-\$10.2

The \$10.2 million (14 percent) unfavorable cost variance is mostly driven by overruns in Solution Stabilization and in NMS Project Management (PBS RL-TP-12). Increased resources for the  $Mg(OH)_2$  glovebox design, procurement and installation have been necessary to maintain the aggressive schedule demands. The cost overruns are somewhat offset by underruns in other areas due to a shortage of staff.

### SCHEDULE PERFORMANCE (-\$15.2M):

	<b>BCWP</b>	<b>BCWS</b>	<b>VARIANCE</b>
<b>Nuclear Material Stabilization</b>	\$70.1	\$85.3	-\$15.2

The \$15.2 million (18 percent) unfavorable schedule variance is due to the behind status on Project W-460, the Plutonium Stabilization and Packaging System, capital activities, such as the elimination of trailers and vault modification design. Facility construction modifications have not started as scheduled due to deviations in the definitive design, required changes to the National Environmental Policy Act (NEPA) Supplemental Analysis and approval of the Notice of Construction by the Washington State Department of Health. Residues and solution stabilization activities are also the behind schedule. Solution stabilization construction activities are two months behind schedule, with startup now planned for September 2000. Restart activities for residues are behind schedule and additional NDA equipment necessary for WIPP validation has been ordered. Restart of residue disposition activities (i.e., Pipe-n-Go of ash) is now anticipated in the 4th quarter of FY 2000, versus the planned April 2000 restart. Oxide stabilization activities continue significantly ahead of schedule.

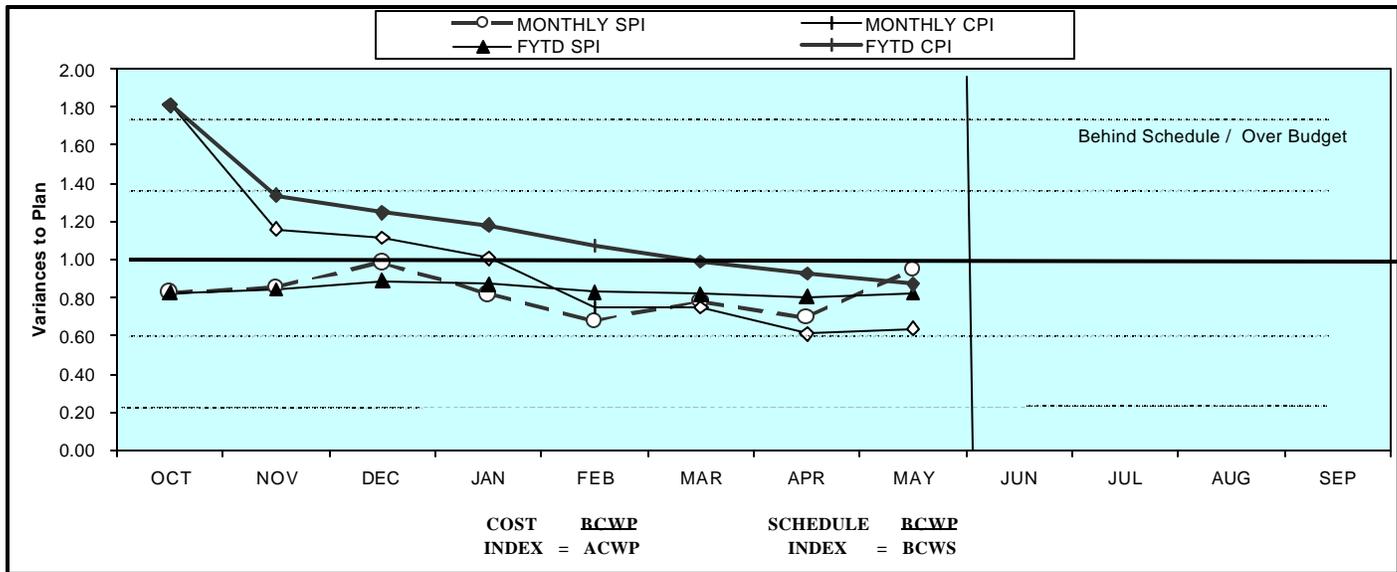
### FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)



		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC
WBS 1.4.5	PFP	\$ 85,336	\$ 70,128	\$ 80,292	\$ (15,208)	-18%	\$ (10,164)	-14%	\$ 124,130	\$ 121,908	\$ 127,475
PBS TP05	Deactivation										
<b>Total</b>		\$ 85,336	\$ 70,128	\$ 80,292	\$ (15,208)	-18%	\$ (10,164)	-14%	\$ 124,130	\$ 121,908	\$ 127,475

RL-Directed costs (steam) are included in the PEM BCWS.

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



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				
MONTHLY CPI	1.81	1.16	1.11	1.01	0.75	0.75	0.61	0.64				
FYTD SPI	0.83	0.84	0.89	0.87	0.83	0.82	0.81	0.82				
FYTD CPI	1.81	1.34	1.25	1.18	1.07	0.99	0.93	0.87				
MONTHLY BCWS	\$7,913	\$12,725	\$9,999	\$10,540	\$11,128	\$13,401	\$9,632	\$9,999	\$8,755	\$9,170	\$11,161	\$9,707
MONTHLY BCWP	\$6,543	\$10,873	\$9,849	\$8,638	\$7,567	\$10,480	\$6,704	\$9,474				
MONTHLY ACWP	\$3,613	\$9,386	\$8,845	\$8,587	\$10,085	\$13,961	\$10,988	\$14,826				
FYTD BCWS	\$7,913	\$20,638	\$30,637	\$41,177	\$52,305	\$65,706	\$75,338	\$85,336	\$94,091	\$103,262	\$114,423	\$124,130
FYTD BCWP	\$6,543	\$17,416	\$27,265	\$35,903	\$43,470	\$53,950	\$60,654	\$70,128				
FYTD ACWP	\$3,613	\$12,999	\$21,844	\$30,431	\$40,516	\$54,477	\$65,465	\$80,292				

### COST VARIANCE ANALYSIS: (-\$10.2M)

**WBS/PBS**

**Title**

**1.4.5.1.13/TP05**

**Stabilization of Nuclear Materials (-\$5.7M)**

**Description and Cause:** The unfavorable cost variance is due primarily increased plant support needed for procurement and installation of the Mg(OH)<sub>2</sub> glovebox and equipment, and other construction activities, and use of subcontract staff augmentation.

**Impact:** Construction not started on time; cost overruns can hurt overall plant project funding.

**Corrective Action:** Acceleration of schedule for procurement, construction and startup has been implemented.

**1.4.5.1.15/TP05**

**Transition PFP (-\$0.8M)**

**Description and Cause:** The unfavorable cost variance is the result of increased costs for lab analysis of tank 241-Z-361 samples as well as carryover work scope not yet reflected in the baseline. Laboratory Analysis has shown tank values exceed 50 ppm of Polychlorinated Biphenyl PCBs. Evaluation as to disposition is underway.

**Impact:** Continuing work scope will result in a cost over run for this activity, savings from elsewhere within the Nuclear Materials Stabilization Project will be required to offset the overrun.

**Corrective Action:** Approve and implement baseline change request to reflect FY 1999 carryover work scope. If PCBs are found to exceed allowable limits, a separate change request may be required to incorporate the additional special waste handling requirements into the baseline. Identify cost savings from elsewhere within the NMSP to offset this overrun.

**1.4.5.1.12/TP05 PFP Fee Allocation (-\$.9M)**

**Description and Cause:** Unfavorable cost variance due to point adjustment (-\$471K) in May to adjust for delay in staff hiring ramp-up at the beginning of FY 2000. An increase in the fee accrual rate from 90% to 100% also is a contributory factor.

**Impact:** No impact.

**Corrective Action:** None required.

**1.4.6.5/TP12 NMS Project Management/Mentoring (-\$1.9M)**

**Description and Cause:** The change request to realign the TP12 (Transition Project Management) budget between the Nuclear Material Stabilization Project and the River Corridor Project is still in process; therefore the NMSP budget is understated resulting in a negative cost variance.

**Impact:** None

**Corrective Action:** DOE-RL approval. Implementation of change request reflecting the PHMC restructuring.

## **SCHEDULE VARIANCE ANALYSIS: (-\$15.2M)**

WBS/PBS

Title

**1.4.5.1.14/TP05 Disposition of Nuclear Material (-\$10.3M)**

**Description and Cause:** The unfavorable schedule variance is primarily due to delays in Line Item Project W-460, Plutonium Stabilization and Packaging System, definitive design and construction. Facility construction modifications have not yet started as scheduled, due to deviations to the Definitive Design, required changes to the NEPA Supplement Analysis and approval of the Notice of Construction (NOC) by the Washington State Department of Health (WSDOH).

**Impact:** Potential delay in the startup of the Bagless Transfer and Stabilization system in 2736-ZB, which can impact stabilization activities in FY 2001.

**Corrective Action:** To assist in the recovery, a second BTS unit is being installed in the 234-5Z facility, which will enable BTS unit operation in FY 2000 as originally planned. Project W-460 management and WSDOH staffs are aggressively working to approve the NOC, which will enable construction to begin.

**1.4.5.1.13/TP05 Stabilize SNM (-\$4.8M)**

**Description and Cause:** The unfavorable schedule variance is due primarily to the behind schedule status on residues and solution stabilization activities. Solution stabilization construction activities are two months behind schedule, with startup now planned for September 2000. Also, restart activities for cementation are behind schedule due to the need for additional Nondestructive Assay (NDA)

equipment necessary for WIPP validation. Restart of cementation of Sand, Slag, and Crucible (SS&C) material processing is now anticipated in late July 2000, versus the April 2000 restart. Oxide stabilization activities continue significantly ahead of schedule.

**Impact:** Potential delay in both restart of cementation and startup of  $Mg(OH)_2$  precipitation processing for solution stabilization; anticipate schedule recovery by the end of FY2000.

**Corrective Action:** An aggressive recovery plan has been developed for both solution stabilization and cementation activities to commence operations in September and July respectively. Plans are also in place to stabilize solutions and residues exceeding baseline commitments even with a late processing start. NDA equipment has been ordered and NMSP is working with the WM Project to meet the Waste Isolation Pilot Plant (WIPP) certification.

## ISSUES

### Technical Issues

**Implementation of supercritical fluid extraction technology for moisture measurements will require installation of a new glovebox in room 235-B.**

**Impact (s):** This installation will require several hundred thousand dollars more than budgeted for procurement and installation and result in several weeks of processing impact during the installation.

**Corrective Action:** The Baseline Change Request (BCR) has been completed. Installation in 234-5Z BTS glovebox is scheduled for completion by September 30, 2000.

**Solution Stabilization Readiness Assessment has been replaced with an Operations Readiness Review (ORR).**

**Impact (s):** Impact to schedule. Delay of activities could impact Performance Incentive.

**Corrective Action:** Plan of Action has been submitted to DOE-RL for approval. Draft Master Safety Analysis (MSA) checklist and startup plans have been developed.

**Seismic issues related to the material storage cage in room 638.**

**Impact (s):** Higher exposure than normal to vault operators

**Corrective Action:** Completed recovery plan. Install new seismically qualified racks in room 638 cage. Not currently funded.

**Lack of certified shipping containers in the DOE Complex to meet PFP schedules.**

**Impact(s):** Prohibits shipment of nuclear materials that cannot go to either WIPP or DOT-6M containers (i.e., Pu standards for re-certification, shipment of reactive materials for processing elsewhere, etc.).

**Corrective Action:** Work with the DOE Complex to certify containers to meet PFP shipping needs (i.e., 9975 container to be re-certified in June 2000, etc.).

**Jointly resolve issues associated with precipitation process. Concentration, Density, Filtrate Handling (permitting of 241-Z to handle heavy metals), discards directly to tank farms.**

**Impact(s):** Concentration/density issue may significantly impact the number of containers to be stored under final disposition. The 241-Z permitting issue, if not resolved, can impact the plant's ability to discard solution waste to tank farms resulting from the  $Mg(OH)_2$  precipitation

processing of plutonium solutions.

**Corrective Action:** Concentration/density issue is being worked through laboratory testing at both Pacific Northwest National Laboratory (PNNL) and PFP's Plutonium Process Support Laboratories. Appropriate actions will be taken according to laboratory results. Also, project management has worked with the Tank D-5/D-8 readiness team to ensure that these tanks are ready to support solution stabilization processing startup as scheduled.

**Equipment for processing Pu inside the Mg(OH)<sub>2</sub> gloveboxes needs to be defined and approved by Operations before glovebox size can be finalized.**

**Impact(s):** Gloveboxes cannot be ordered until size is finalized.

**Corrective Action:** Use mockup and daily meetings with Operations to finalize the internal arrangement of the gloveboxes to the point where a size can be determined and the gloveboxes ordered.

**Solution Stabilization Readiness Assessment has been replaced with an ORR.**

**Impact(s):** Impact to schedule. Delay of activities could impact Performance Incentive.

**Corrective Action:** Detailed evaluation conducted to identify activities and resources to perform scope of work. Finalizing list of activities for incorporation into project schedule.

**Criticality analysis for storage of drums with Pipe Overpack Containers (POCs) at the Central Waste Complex (CWC). (Currently unfunded)**

**Impact(s):** Drums with POCs will not be shipped to the CWC. The Cementation process will begin using a 90-day storage pad until permitted storage is approved by Ecology.

**Corrective Action:** A statement of work has been written by the Central Waste Complex safety representative for development of a criticality credibility analysis using an analysis similar to that used at Rocky Flats to support POC drum storage at the CWC.

## **DOE/Regulator/External Issues**

- RCRA Permitting Part A revision for adding ignitability waste code was submitted to Ecology in support of Cementation startup.
- RCRA Permitting in support of Pipe-N-Go:
  - A revised Notice of Intent (NOI) to define storage locations at PFP was released for public review
  - Revised Part A to provide permitted storage at PFP will be transmitted to Ecology in May 2000
  - Update interface agreement between PFP and Waste Management to define requirements and responsibilities to support CWC and Waste Isolation Pilot Plant acceptance of packaged residues.
- PFP request to DOE-RL to contact Westinghouse Savannah River with respect to accelerated delivery of the additional BTS unit.
- Continue work with Rocky Flats to procure containers (Pipe-n-Go) to support PFP Residue Stabilization without the need for another procurement action.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT \$000	SCH	TECH	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						Deleted
FSP-2000-004	23-Nov-99	PFP Test Polycube Stabilization via Muffle Furnace	\$0	X	X	17-Feb-00	17-Feb-00	28-Mar-00	RL approved
FSP-2000-045	30-Nov-99	Implement PFP Int Proj Mgmt Plan Addendum I	\$0	X	X				In work at PFP
FSP-2000-043	5-May-00	PFP Remote Controlled Video System	\$0						On hold for funding
FSP-2000-049	7-Jun-00	Revision to NMS Milestone TRP-00-13	\$0						
FSP-2000-050	8-Jun-00	PFP Project W-460 Purchase (Calorimeter & Outer Can Welder)	\$0						
FSP-2000-051	8-Jun-00	HEPA Filter Vulnerability Assessment	\$0						
FSP-2000-053	13-Jun-00	Accelerated Installation of PFP Backflow Preventers	\$0						
FSP-2000-011	27-Dec-99	Adjusted PFP Cementation Processing to include Sand, Slag and Crucible	\$0	X	X	14-Jan-00	18-Jan-00	17-Feb-00	Implemented
FSP-2000-025	10-Mar-00	PFP Replacement Transformer	\$992	X		27-Mar-00	27-Mar-00	Not Req'd	Implemented
FSP-2000-029	26-Jan-00	PFP FY2000 Funds Reduction	(\$5,565)	X		9-Mar-00	23-Mar-00	16-May-00	RL approved
FSP-2000-032	22-Mar-00	PFP 2nd Bagless Transfer System	\$890	X	X	29-Mar-00	7-Apr-00	16-Jun-00	Implemented
FSP-2000-035	3-Apr-00	PFP Carry-over Worksopce	\$620	X	X	2-May-00	2-May-00	Not Req'd	Implemented

## 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	13	2	0	1	0	10	0	26
DOE-HQ	0	0	0	0	0	2	0	2
RL	5	5	3	0	0	13	0	26
<b>Total Project</b>	<b>18</b>	<b>7</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>54</b>

<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 (TRP-00-511), <b>“Deliver Two (2) Tank 241-Z-361 Core Sample Validated Data Packages to EPA”</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 • A BCR to remove pyrolysis stabilization of polycubes and implement thermal stabilization in its stead has been approved by RL and implemented into the baseline.	<b>Yellow</b>

### MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Date</u>	<u>Baseline Date</u>	<u>Forecast</u>
<b>OVERDUE – 4</b>					
<b>TRP-00-103</b>	<b>RL</b>	Submit Hanford Materials Forecast to DOE-RL		05/15/00	06/02/00
<b>1.4.6</b>					
<b>Cause:</b> RL established a later completion date of June 16.					
<b>Corrective Action:</b> A BCR has been prepared to change the baseline date to June 16. The milestone was completed on June 2.					
<b>TRP-00-504</b>	<b>RL</b>	Restart Cementation Operations		04/21/00	FY 2001
<b>1.4.5</b>					
<b>Cause:</b> Stabilization processing has been re-sequenced.					
<b>Corrective Action:</b> None, as the global stabilization end point will remain the same.					
<b>TRP-00-500</b>	<b>HQ</b>	Install Two LANL Pyrolysis Units for Stabilization of Polycubes		12/31/99	Proposed Deletion
<b>1.4.5</b>					
<b>Cause:</b> See DNFSB Commitment above.					
<b>Corrective Action:</b> A BCR to remove pyrolysis stabilization of polycubes and implement thermal stabilization in its stead has been approved by RL and implemented into the baseline. However, this is a HQ milestone and cannot be removed from the list.					
<b>TRP-00-510</b>	<b>RL</b>	Complete Annual Revision to IPMP		05/31/00	07/31/00
<b>1.45</b>					
<b>Cause:</b> Comment resolution has taken longer than anticipated.					
<b>Corrective Action:</b> None.					

## FY 1999 OVERDUE – 2

**TRP-99-419 RL** Complete Installation of Production Scale Vertical Calciner 09/30/99 Proposed Deletion

**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 Department of Energy, Richland Office (DOE-RL) change control process cannot remove this milestone.

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

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

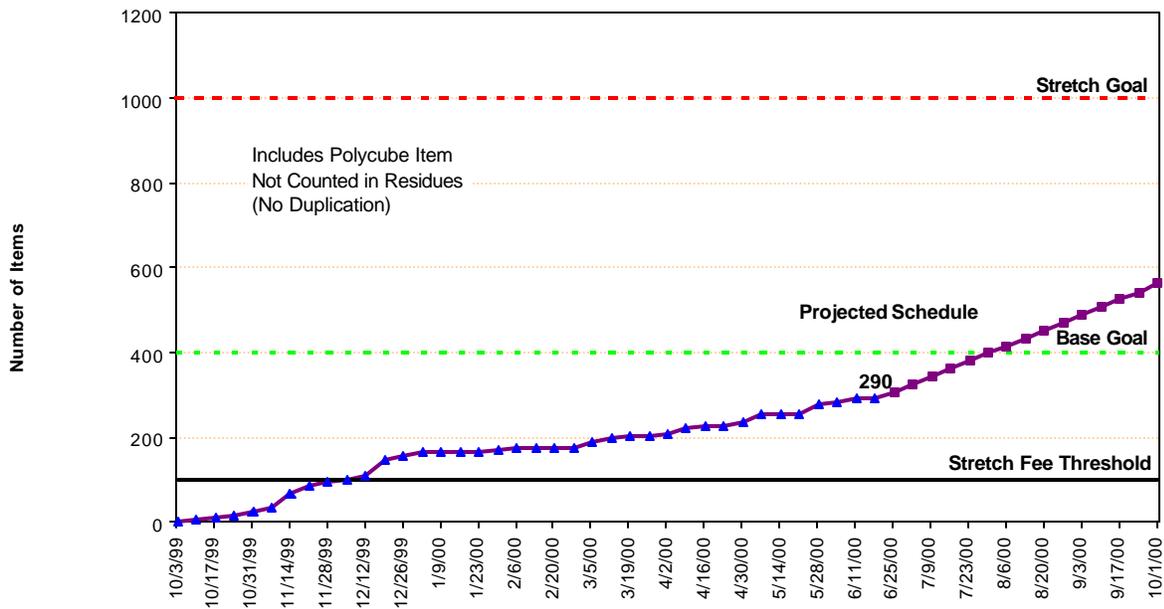
**Impact:** No impact. This milestone is obsolete.

**Corrective Action:** Since this milestone is a DOE-HQ milestone and is part of the DOE-HQ 1998 DNFSB Recommendation 94-1 Implementation Plan, the Department of Energy, Richland Office change control process cannot remove this milestone. However, this milestone will be removed upon approval of the revised DOE-HQ DNFSB Recommendation 94-1 Implementation Plan.

### PERFORMANCE OBJECTIVES

Green

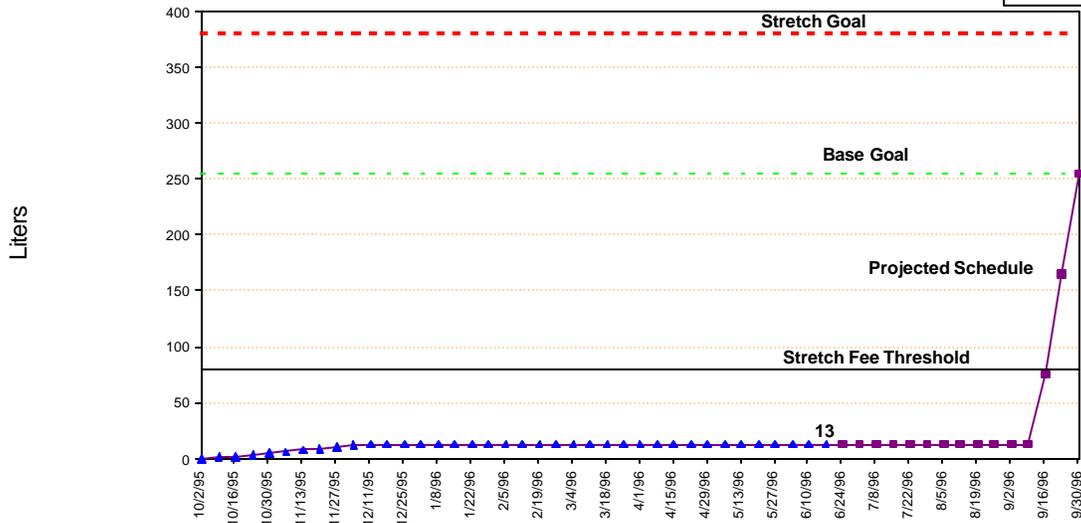
### Oxides/Metals/Polycubes Stabilization



	10/3	10/7	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	7/16	7/30	8/13	8/27	9/10	9/24	
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	1000
Oxides Base Goal	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0
Oxides Actual	0	10	27	67	95	107	157	164	164	174	174	189	201	209	221	228	255	255	284	290								
Oxides Projected Schedule																				290	326	362	398	434	470	506	542	
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	100	100

### Solution Stabilization

Yellow

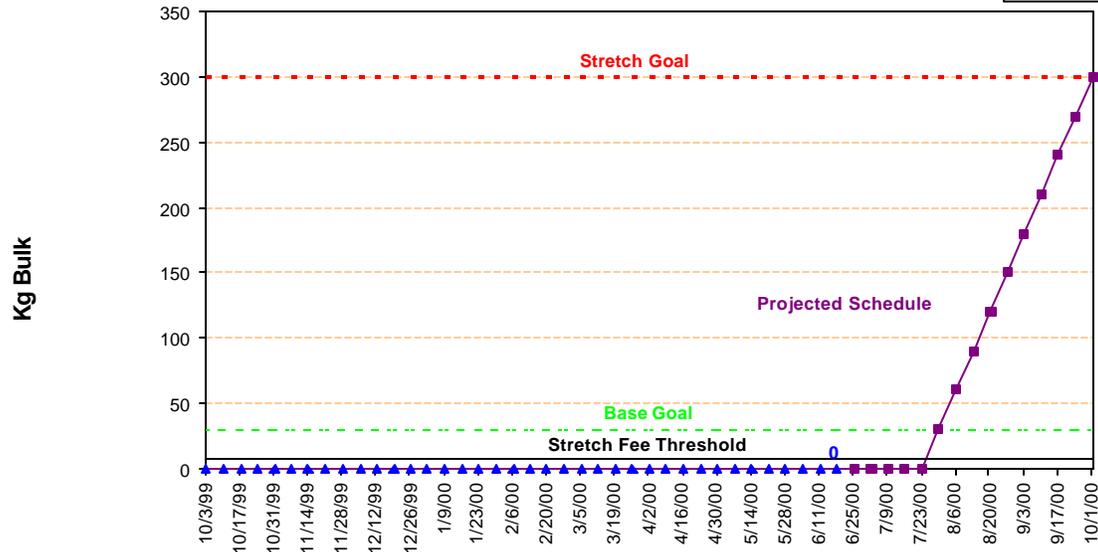


	10/2	10/23	11/6	11/27	12/11	1/1	1/15	2/5	2/19	3/11	3/25	4/15	4/29	5/20	6/3	6/24	7/8	7/29	8/12	9/2	9/16	
Solutions Stretch Goal	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380
Solutions Base Goal	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0
Solutions Actual	0	4	6	10	13	13	13	13	13	13	13	13	13	13	13							
Solutions Projected Schedule																13	13	13	13	13	13	75.5
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

Aggressively pursuing construction completion in support of stabilization activities.

### Residues Stabilization

Yellow



	10/3	10/24	11/7	11/28	12/12	1/2	1/16	2/6	2/20	3/12	3/26	4/16	4/30	5/21	6/4	6/25	7/9	7/30	8/13	9/3	9/17
Residues Stretch Goal	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
Residues Actual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residues Projected Schedule																0	0	30	90	180	240
Stretch Fee Threshold	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

Update baseline schedule for new cementation start-up date and adjust ash schedule for preparatory work.

## KEY INTEGRATION ACTIVITIES

- Working on interface agreement between PFP and Waste Management to define requirements and responsibilities to support Central Waste Complex (CWC) and WIPP acceptance of packaged residues.
- Continue work with Rocky Flats to procure containers (Pipe-n-Go) to support PFP Residue Stabilization without the need for another procurement action. Work continues with Rocky Flats to reach a joint resolution to PFP stabilization heating process.
- Joint PNNL/Plutonium Process Support Laboratories (PPSL) Mg(OH)<sub>2</sub> continues:
  - Status meeting with PNNL, PFP & DOE RL.
  - PPSL preparing to conduct scale testing with test set up developed by PNNL.
  - Downloaded solutions (1 product receiver (PR) container) in room 227 to support Phase 2 testing by PPSL.