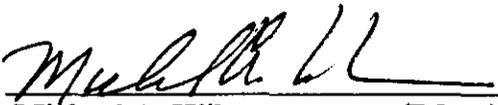
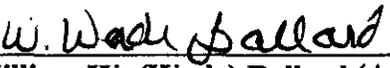


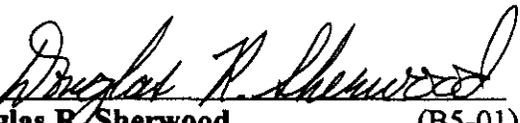
**Meeting Minutes**  
**October 24, 2000**  
**Tri-Party Agreement Milestone Review**

Approval:   
**Michael A. Wilson** (B5-18)  
*Ecology IAMIT Representative*

Date: 2/12/01

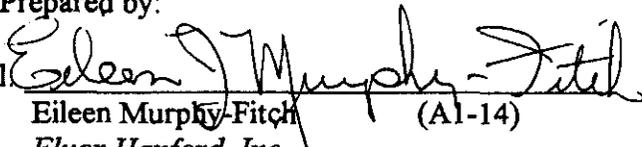
Approval:   
**William W. (Wade) Ballard** (A5-12)  
 Chairperson  
*RL IAMIT Representative*

Date: 2/16/01

Approval:   
**Douglas R. Sherwood** (B5-01)  
*EPA IAMIT Representative*

Date: 2/12/01  
**RECEIVED**  
 MAR 12 2001

Minutes Prepared by:

Approval:   
**Eileen Murphy-Fitch** (A1-14)  
*Fluor Hanford, Inc.*

**EDMC**

Date: 2/8/01

Augustenborg, J.	RL	A5-11	Jamison, F.	Ecology	B5-18
Ballard, W. W.	RL	A5-12	Jarvis, M. F.	RL	A5-15
Blazek, M.	ODOE*		Jim, R.	Yakama*	
Bond, R.	Ecology	B5-18	Langstaff, D. C.	RL	L1-08*
Boston, H. L.	ORP	H6-60	Mattlin, E. M.	RL	A2-15
Barnett, J. M.	FH	L1-05*	McKenney, D. E.	FH	G1-32
Brown, M.	Ecology	B5-18	Miskho, A. G.	FH	G1-37
Clark, C. E.	RL	A5-15	Moy, S.	RL	H0-12
Clarke, S.	RL	R3-79*	Morrison, R. D.	FH	A1-14*
Cusack, L.	Ecology	B5-18*	Murphy-Fitch, E. J.	FH	A1-14*
Dagan, E. B.	RL	A5-15	Perry, J. K.	FH	L1-04*
Einan, D.	EPA	B5-01	Piippo, R. E.	FH	A1-14*
Evans, D. T.	RL	A6-38	Richards, J.	CTUIR	
Girres, C. K.	FH	T3-01	Riess, M. J.	CHG	A1-14*
Guillen, R. L.	RL	L1-03	Rodriguez, H. M.	RL/ORP	A5-15*
Hales, J. E.	FH	A1-14	Romine, L. D.	RL	R3-79
Henry, G.	ODOE*		Ruud, L.	Ecology	B5-18*
Hertzfel, J. S.	FH	A1-14*	Sanders, G. H.	RL	H0-12
Holt, R. G.	RL	R3-11	Sherwood, D. R.	EPA	B5-01*
Hopkins, A.	FH	H5-24	Sinton, G. L.	DOE	H0-12
Iwatate, D. F.	FH	A1-14*	Skinnarland, E. R.	Ecology	B5-18

Stanley, R.  
Templeton, D. W.  
Wilson, M. A.

Ecology  
RL  
Ecology  
Lacey\*  
L1-08  
B5-18\*

Wisness, S. H.  
Yerxa, J. K. .  
Administrative Record

RL  
RL  
EDMC  
A2-15  
A5-15  
H6-08\*

\* w/Attachments

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## Tri-Party Agreement Milestone Review

October 24, 2000

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### **M-26-01J                    LDR (G. H. Sanders/G. L. Sinton)**

Greg Sinton, RL, presented the status of Land Disposal Restriction (LDR) activities. Mike Wilson, Ecology, took exception to the statement that Ecology had cited DOE for the alleged failure to adequately identify and describe all LDR mixed waste on the Hanford Site because it was inaccurate. Ecology did cite DOE for the failure to adequately identify and describe all LDR mixed waste on the Hanford Site.

DOE and the Hanford Site Contractors are preparing a response to Ecology's September 28, 2000, comments on the 2000 Interim Report. Comments are scheduled to be transmitted by close of business October 26, 2000. It was difficult for DOE to determine if Ecology had provided all their comments on the Interim LDR Report since no specific comments were received on Volume 1, the proposed Implementation Plan for the 2001 Report. DOE felt that the absence of specific comments would limit their ability to make changes/affect the product submitted on April 30, 2001. Ecology stated that they were not planning on providing anything further on this issue and that the product submitted on April 30, 2001, will be evaluated against the Final Determination.

### **M-20-00                    Permitting/Closure Plans (S. H. Wisness/E. M. Mattlin)**

In response to EPA's request, the presentation was restructured to include Tri-Party Agreement Milestones as well as permit activities. Part B Permit Application milestone status, M-20-56, Submit Canister Storage Facility Part B Dangerous Waste Permit Application to Ecology, due June 30, 2002, and M-20-57, Submit Interim ILAW Facility Part B Permit Application to Ecology, due August 31, 2002, may need to be reevaluated based on facility construction dates.

Ecology stated status of the 200 Area Remedial Action milestones (M-20-33, M-20-39, M-20-52, M-20-53, M-20-54) are reported under M-20 and by the Environmental Restoration Contractor (ERC) and questioned the value of this approach.

Ecology voiced their concern on the proposed schedule changes for the 200 Area Remedial Action milestones. Directing a major subcontractor to work on a revised plan prior to discussion and approval with the lead regulatory agency (in this case Ecology) is not an acceptable way to conduct business between the three parties.

DOE is waiting for Ecology to issue Modification E:

- Part III, Final Status Operations (two new chapters Central Waste Complex and Waste Receiving and Processing Facility; incorporates Class 3 modifications in Chapter 1, 616 Nonradioactive Dangerous Waste Storage Facility)
- Part V (two new chapters 300 Area Waste Treatment System and 2401-W Waste Storage Building).

DOE also indicated they were awaiting issuance of Modification F for public comment. Modification F which modifies:

- List of Attachments (Attachment 33, DOE/RL-91-28, Hanford Facility Dangerous Waste Permit Application, General Information Portion, Revision 5)
- Part III, Final Status Operations (one new chapter 222-S Laboratory Complex)

Ecology stated that they had received all the documentation necessary to move forward and are intending to have Modification E issued by the end of the December 2000. As soon as that is complete, then they will issue Modification F for public comment. Workshops will continue during the next six months in support of the NOD comments for the T Plant Complex Part B Permit Application and the Mixed-Waste Disposal Units Part B Permit Application.

**M-89-00      324 Bldg. Closure of MW Units (D. T. Evans/D, C. Langstaff)**

The critical path schedule for this activity has no contingency to accommodate program delays. The revised Critical Path Schedule indicates that we are 14 days behind schedule. A completion checklist was developed as a result of discussions between Ecology, DOE and the Hanford Site Contractors. The intent of the checklist is to make sure that the information submitted meets the requirements and minimizes the element of surprise. DOE reviewed the contractor's schedule and does not believe the November 30, 2000, date will be met. Because the Contractor has consistently said they will make it, DOE made the decision to not request an extension for the Tri-Party Agreement Milestone from Ecology and has not provided any schedule relief to the Contractor for the schedule/compliance due date. In response to that, the Contractor went to three shift operations effective October 2, 2000.

Issues impeding progress include crane repairs, Central Waste Complex Waste Criteria, and workforce issues. The IAMIT requested that an update on this be included on the November 14, 2000, IAMIT agenda.

**M-92-00      Facilities for Cesium/Strontium, Sodium and SCW (D. T. Evans/J. K. Perry)**

Completion letters for Tri-Party Agreement Milestones M-92-13, Submit 300 Area SCW PMP to Ecology, due September 30, 2000, and M-92-14, Complete Removal and Transfer, and Initiate Storage of Phase I 300 Area SCW Materials, due September 30, 2002, were submitted to Ecology on March 28, 2000. Ecology indicated they had some minor comments but felt there were no show stoppers and should be able to resolve them within the next few weeks.

FY 2001 activities include shipping SCW items (metal filters, B-Cell dispersibles, etc.) and continued characterization of the 340 Vault Tanks to obtain more feasible alternatives for the tank heel removal. The building has FY 2001 funding for minimum safe activities only.

**M-83-00      PFP (L. D. Romine/L D. Romine)**

Safety, environment, schedule and cost were rated as good. Safety performance remained outstanding with no OSHA or Lost Workday Case injuries. The unfavorable schedule and cost variances are due to Project W-460, Plutonium Stabilization and Handling, Magnesium Hydroxide (MH Process) construction, and cementation restart activities. Corrective actions have been implemented.

Because the Notice of Construction for Project 460 activities in the 2736-ZB Facility, was not approved by the Washington Department of Health and construction couldn't begin as scheduled (May 15, 2000), a baseline change request was initiated to extend the construction schedule to April 2001.

Residue and solution stabilization startups, scheduled for April and July are over two months behind schedule. The MH Process precipitation process construction activities are exceeding planned costs. Failure to commence solution stabilization and residue operations on schedule has delayed stabilization progress impacting both cost and schedules in FY 2001. An aggressive catchback/recovery plan was implemented for both solution stabilization construction and operations activities with startup in early September 2000. An alternate course for cementation, Pipe-n-Go for ash materials, is being worked with startup now planned for August 2000. Ecology approval of Part A Form 3 Revision for storage containers in 192D is needed.

**M-15-37B 241-Z-361 Data Recommendation (D. T. Romine/S. E. Clarke)**

EPA completed their review of the data packages and recommendation for the regulatory path forward for remediation of 241-Z-361. EPA commended DOE for providing EPA with a clear, well-written report. EPA concurs with DOE that a non-time critical removal action is the appropriate path forward for the disposition of the contents of Tank 241-Z-361. EPA will not require any revisions to the document but would like to document inaccuracies (detailed in presentation package). Discussions will continue with EPA.

RL pointed out that special emphasis (beyond the required data validation) was placed on verifying that the concentration of fissile material in Tank 241-Z-361 was far below that required for a criticality. This was independently accomplished by two Ph.D. radiochemists who reconstructed the plutonium analyses from the raw spectroscopy data. The independently derived data was in excellent agreement with concentrations reported in the data package.

**AGENDA**  
**TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW**  
**CHAIRPERSON: W. W. Ballard**

**Tuesday, October 24, 2000**  
**712 Swift Blvd., Suite 5, EPA Conference Room**

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>	<u>PRESENTER</u>
<b>Note: The Spent Nuclear Fuel Program Presentation has been rescheduled to the November 14, 2000 Milestone Review.</b>				
10:00 am	M-26-01	Land Disposal Restrictions Report	G. H. Sanders	G. L. Sinton
10:15 am	M-20-00	Permitting/Closure Plans	S. H. Wisness	E. M. Mattlin
10:30 am	M-89-00	324 Bldg. Closure of MW Units	D. T. Evans	D. C. Langstaff
	M-92-00	Facilities for Cesium/Strontium, Sodium and Special Case Waste	D. T. Evans	J. K. Perry
	M-83-00	Plutonium Finishing Plant	L. D. Romine	L. D. Romine
11:30 am	ADJOURN			

**ATTENDEES**

**Tri-Party Agreement Milestone Review  
October 24, 2000**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>ATTACHMENTS</u>
JEFF HERTZEL	FH/TPA	31-10	
Frank Witek	FH/TPA	31-14	✓
Greg SINTON	RL/WMD	10-12	✓
Ellen Dagon	RL/ORL	A5-15	
Rick Bond	Ecology	B5-18	
Clifford Clark	RL/ORL	A5-15	✓
MIKE WILSON	ECOLOGY		✓
Tom Miskho	FH	G1-37	
Suzette Thompson	FH	B1-30	
Wade Berglund	DOE-RL		
LAURA CASACK	Ecology		✓
George Sanders	DOE-RL		
Steve Winesly	DOE-RL		
Dave Einar	EPA	B5-01	
ELLEN MATTILIN	DOE-RL		
JOE RICHARDS	CTUEE-Hanford ops.	Please email to 950 SW: FT BLVD, STE 12 Richland WA 99352	✓
R.L. Guillen	DOE-RL	L1-03	
R.F. BILPBO	FH/TPA	A1-14	✓
Laura Rand	Ecology	B5-18	
Melinda Brown	Ecology	B5-18	
FRED SAMISON	Ecology	B5-18	
Janice Williams	FH	H8-67	
Cindy Gies	FH	T3-01	



Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
Quarterly Presentation

G. L. Sinton

DOE Waste Management Division

L. E. Ruud

State of Washington, Department of Ecology

Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
October 24, 2000

- Tri-Party Agreement requires that a Hanford Site Land Disposal Restrictions (LDR) Report be submitted annually (M-26-01) to cover the period from April 1 through March 31
- The Director of Ecology issued a Final Determination on March 29, 2000
- One of Ecology's citations was the alleged failure to adequately identify and describe all LDR mixed waste on the Hanford Site

Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
October 24, 2000

In accordance with the Director's Determination, RL:

- Submitted a Storage Compliance Assessment Methodology to Ecology on May 23, 2000
- Submitted the Interim LDR Report to Ecology July 31, 2000
- Ecology has stated that these two submittals do not satisfy the requirements of the Final Determination

Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
October 24, 2000

- Ecology provided primary document comments on the Interim LDR Report on September 28, 2000. Ecology requested that DOE:
  - Identify and reference (by document number) any assessments completed during the 2000 LDR reporting period
  - Include the primary document statement and signature for the Interim LDR (2000)
  - Submit revised procedures Storage Compliance Assessment Procedures to address deficiencies noted in the September 28, 2000, letter
  - Submit a schedule for performing assessments at all mixed waste locations at Hanford for the 2001 reporting period
  - Include the primary document statement and signature for the 2001 report
  - Compliance statement by waste stream for the 2001 report
  
- DOE and Hanford Contractors are preparing response to comments/proposal to address Ecology comments

Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
October 24, 2000

Actions Planned for Next Six Months

- Respond to Ecology primary document comments for the Interim LDR
- Begin preparation of the 2001 Storage Report, Site Treatment Plan and Report, Characterization Plan, and Assessment Report
- Issue waste data call for 2001 Report (report due April 30, 2001)
- Conduct storage assessment(s)

Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
October 24, 2000

Issue

It is difficult for DOE to determine if Ecology has provided all their comments on the Interim LDR Report since no specific comments were received on Volume 1, the proposed Implementation Plan for the 2001 Report, submitted in July 2000

Impact

Absence of specific comments limits the ability to make changes/affect the 2001 submittal due April 30, 2001 (Tri-Party Agreement Milestone M-26-01K)

# M-20 Milestone Status Permits and Closure Plans

Presented by  
**Ellen Mattlin**  
DOE Richland Operations Office  
October 24, 2000



Department of Energy  
Richland Operations Office

## Part B Permit Application Milestone Status

M-20-56 6/30/2002

*Submit Canister Storage Facility Part B dangerous waste permit application to Ecology*

M-20-57 8/31/2002

*Submit interim ILAW Facility Part B permit application to Ecology*

M-20-58 Deleted

Ecology deleted this milestone to submit LAW Disposal Facility Part B permit application to Ecology

### Current Milestone Status:

Milestones M-20-56 and M-20-57 schedules may need to be re-evaluated based on facility construction dates.

# Closure Plan Milestone Status

M-20-29A

TBD

*Submit Sodium Storage Facility and Sodium Reaction Facility Closure Plan or request for procedural closure as defined in Section 6.3.3 of this Tri-Party Agreement to EPA and Ecology.*

## Current Milestone Status:

Approved TPA M-81-98-01, Change Request placed all the M-81 Milestones and Target Dates "in abeyance" status and placed M-20-29A in "TBD" status. The current status is in effect until the Secretary of Energy issues a final decision on whether or not to restart FFTF. The Record of Decision for the Nuclear Infrastructure PEIS is currently planned for late December 2000.

## Closure Plan Milestone Status (cont.)

<b>M-20-33</b>	<b>10/31/2003</b>
<i>Submit 216-A-10 Crib and 216-A-36B Crib Closure/Postclosure plans to Ecology in coordination with the work plan for Uranium Rich Process Waste Group, M-13-25</i>	
<b>M-20-39</b>	<b>2/28/2003</b>
<i>Submit 216-A-10 Pond and Ditch Closure/Postclosure Plans to Ecology in coordination with the work plan for the Chemical Sewer Group, M-13-21</i>	
<b>M-20-52</b>	<b>12/31/2003</b>
<i>Submit 216-A-37-1 Crib Closure/Postclosure Plan to Ecology in coordination with the work plan for the General Process Waste Group, M-13-26</i>	
<b>M-20-53</b>	<b>12/31/2003</b>
<i>Submit 207-A Retention Basin Closure/Postclosure Plan to Ecology in coordination with the work plan for the General Process Waste Group, M-13-26</i>	
<b>M-20-54</b>	<b>2/28/2004</b>
<i>Submit 241-CX Tank System Closure/Postclosure Plan to Ecology in coordination with the work plan for the Infrastructure Waste Group</i>	

### Current Milestone Status:

The 200 Area Remedial Action Project will be preparing a draft TPA Change Request Package proposing revisions to the schedule for Milestones M-20-33, M-20-39, M-20-52, M-20-53, and M-20-54. Priorities in the 200 Area have changed, focusing on clean-up activities for the highest risk operable units/operable units that are considered representative of the 200 Area's nine major waste groupings. As a result, DOE will propose that the closure plans for these TSDs be deferred.

## Hanford Facility RCRA Permit Status

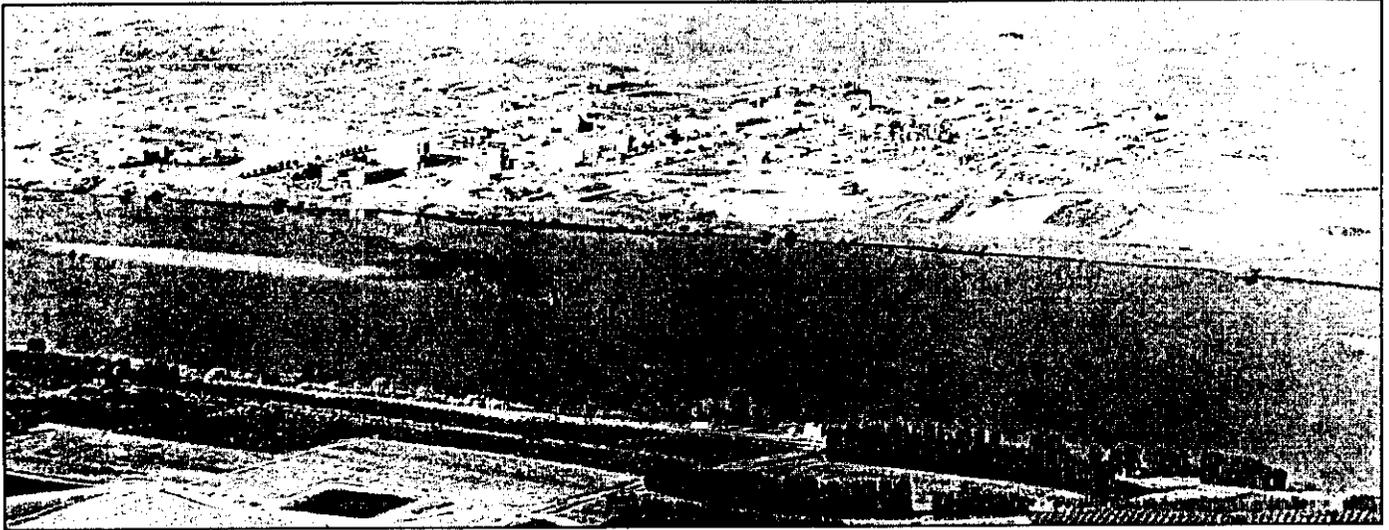
- ◆ DOE-RL is awaiting Ecology issuance of Modification E modifying:
  - Part III, Final Status Operations (two new chapters Central Waste Complex and Waste Receiving and Processing Facility; incorporates Class 3 modifications in Chapter 1, 616 Nonradioactive Dangerous Waste Storage Facility)
  - Part V (two new chapters 300 Area Waste Treatment System and 2401-W Waste Storage Building)
- ◆ DOE-RL is awaiting issuance of Modification F for public comment, which would modify:
  - List of Attachments (Attachment 33, DOE/RL-91-28, Hanford Facility Dangerous Waste Permit Application, General Information Portion, Revision 5)
  - Part III, Final Status Operations (one new chapter 222-S Laboratory Complex)

## Accomplishments (last 3 months)

- ◆ DOE-RL submitted the following permit documentation to Ecology on 8/30/2000 supporting Modification F:
  - Hanford Facility Dangerous Waste Permit Application, 222-S Laboratory Complex, Revision 1
  - Attachment 33, DOE/RL-91-28, Hanford Facility Dangerous Waste Permit Application, General Information Portion, Revision 5
- ◆ DOE-RL submitted additional information for Modification F to Ecology on 10/10/2000. Ecology requested the additional information to perform a completeness review of documentation supporting Modification F of the Hanford Facility RCRA Permit.
- ◆ Ecology issued notice of deficiency (NOD) comments on the Waste Treatment Plant Part B permit application.

## Planned Actions (next 6 months)

- ◆ Ecology issue NOD comments for T Plant Complex Part B permit application
- ◆ Ecology issue NOD comments for the Mixed Waste Disposal Units Part B permit application.



# 324 Facility Stabilization

Milestone  
TPA-M-89



IAMIT Meeting October 24, 2000  
Tri-Party Agreement  
Milestone Status Report

Ecology Program Manager – FW Bond  
DOE-RL Program Manager – DC Langstaff  
FH Environmental Sponsor – JM Barnett

# Active Milestone Overview

Milestone	Description	Target Date	Status
M-89-00	Complete closure of non-permitted mixed waste units in the 324 Building REC B-Cell, REC D-Cell, and the high level vault.	10/31/05	In progress
M-89-02	Complete removal of 324 Building REC B-Cell MW and equipment.	11/30/00	In progress

# Program Manager's Assessment

since last quarterly review

## ☀ Environmental – Excellent

- All activities related to completion of the M-89 milestones have been conducted in compliance with environmental regulations. No adverse impacts to the environment have occurred

## ☀ Safety – Excellent

- All Activities related to completion of the M-89 milestones have been conducted safely during the most recent quarter. Cutting operations, crane repairs, B-Cell door repairs, and airlock entries have all been conducted safely

## ☀ Cost – Excellent

- FY 2000 found overall 324 Building activities tracking within the authorized funding. The September 2000 FYTD variance is positive approximately \$2M

## ☀ Schedule – Marginal

### General

- The revised critical path schedule to M-89-02 shows 14 days behind schedule (October 16, 2000 status)
- Discussions with Ecology have clarified understanding with what workscope constitutes completion of M-89-02. Ecology has provided their expectations regarding M-89-02 to RL
- FH drafted a M-89-02 completion checklist and initiated a workshop where FH, RL, and Ecology reached consensus on the final product to be used in closing M-89-02

# Program Manager's Assessment

(Cont'd)

since last quarterly review

## \* Schedule – continued

### Mixed Waste (MW) Activities

- Revised logic has been incorporated into the newly issued critical path schedule for meeting milestone M-89-02, due 11/30/00. Schedule logic is based on getting as much material out of B-Cell and staged on the <90 day accumulation area as possible
- While the project has stayed within a few days of the critical path schedule in the past quarter, any significant equipment failure or delay will have to be evaluated for its impact against meeting M-89-02. Currently higher than anticipated doses on the Steel Waste Disposal Boxes (SWDBs) are having an impact on the ability to load out and ship, and subsequent schedule. Arrangements are being made to resolve this problem with the Central Waste Complex (CWC)

### Supporting Activities

- Completed a major repair to the B-Cell 3 ton crane, however subsequent to repair, damage to the wire rope has rendered the crane out-of-service pending wire rope replacement

# Significant Accomplishments

since last quarterly review

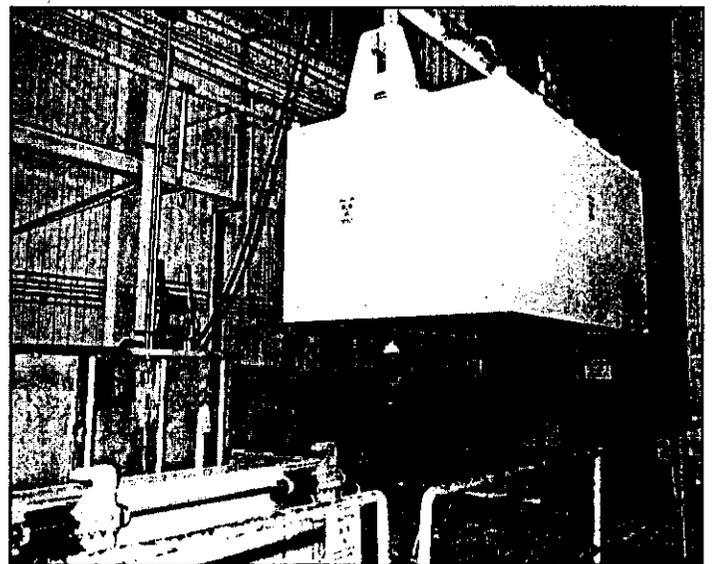
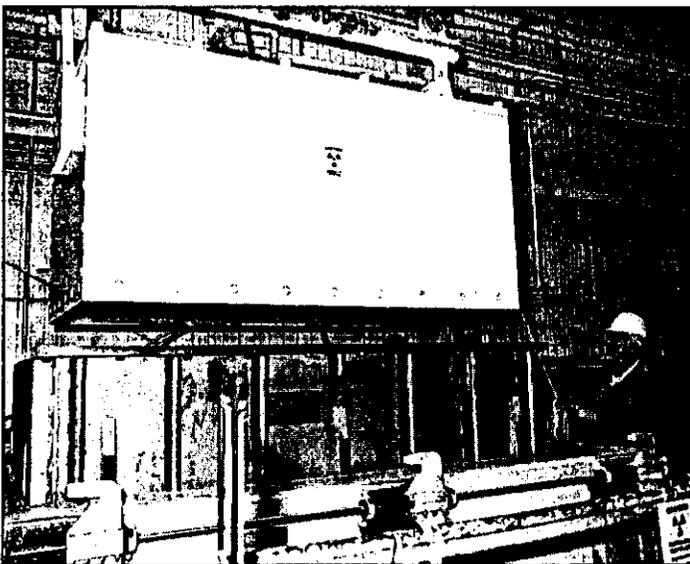
## M-89-02

### General

- \* RL management made the decision to not request a schedule extension for M-89-02 and focus attention on meeting the milestone itself
- \* Completed discussion with Ecology and reached agreement on requirements to meet M-89-02
- \* Secured \$14M project funding for continued FY 2001 operations

### Mixed Waste (MW) Removal Activities

- \* Loaded out and shipped first three MW SWDBs to 200 West Area
- \* Completed dose profiling and sorting GC-88 loose items; exploring solutions to disposal of grouted volume in GC-88
- \* Two SWDBs displayed bottom hot spots. Streaming between the SWDB interior shielding is the suspected cause. The preferred solution – to add shielding as needed at CWC – is being evaluated



# **Significant Accomplishments** (cont'd)

since last quarterly review

## **Mixed Waste (MW) Removal Activities cont'd**

- ✿ Established approach to conducting and documenting vacuuming of B-Cell MW dispersibles
- ✿ Waste volumes of B-Cell dispersible material and HEPA filters were greater than baseline estimates, requiring purchase of additional waste containers and establishing a 200 Area MW storage capability. Procurement of these additional containers was completed on 10/02/00
- ✿ Received all RGCs/RODCs/SWDBs ordered 10/02/00

## **Non-Mixed Waste Removal Activities**

- ✿ Completed the three remaining 3-82B grout container shipments to the 200 West Area
- ✿ Completed downloading and size reducing the two remaining shuttle boxes
- ✿ Completed HEPA filter and RGC-3 size reduction
- ✿ Prepared for removal and size reduction of the Canister Storage Rack
- ✿ Weighed and dose-profiled GC-115 and GC-158 and relocated both to A-Cell

## **Key Maintenance Activities/Others**

- ✿ Performed two repairs on the 3-ton crane. This required five airlock entries
- ✿ Replaced sheave, spacers, and bearing on the trolley main block of the 30-ton crane
- ✿ Replaced B-Cell HEPA filters and washed the ESPs
- ✿ Replaced oil in 23 Hot Cell windows
- ✿ Repaired trolley brake on the 30-ton crane

# Significant Planned Actions

next three months

## \* M-89-02

- Complete B-Cell size reduction/packaging of remaining excess in-cell equipment
- Collect MW dispersibles from the B-Cell floor by vacuuming using the Dispersible Removal System (DRS)
- Resolve the SWDB hot spot issue
- Complete shipping MW from B-Cell to the 200 Area
- Package B-Cell non-mixed waste debris in GCs and stage in A-Cell prior to 11/30/00
- Resume shipping 3-82B non-mixed waste GCs from A-Cell to 200 West Area
- Repair the 3-ton crane

# Issues

## Issues

- ✿ Critical path schedule to meet M-89-02 has no contingency to accommodate significant program delays

### Status

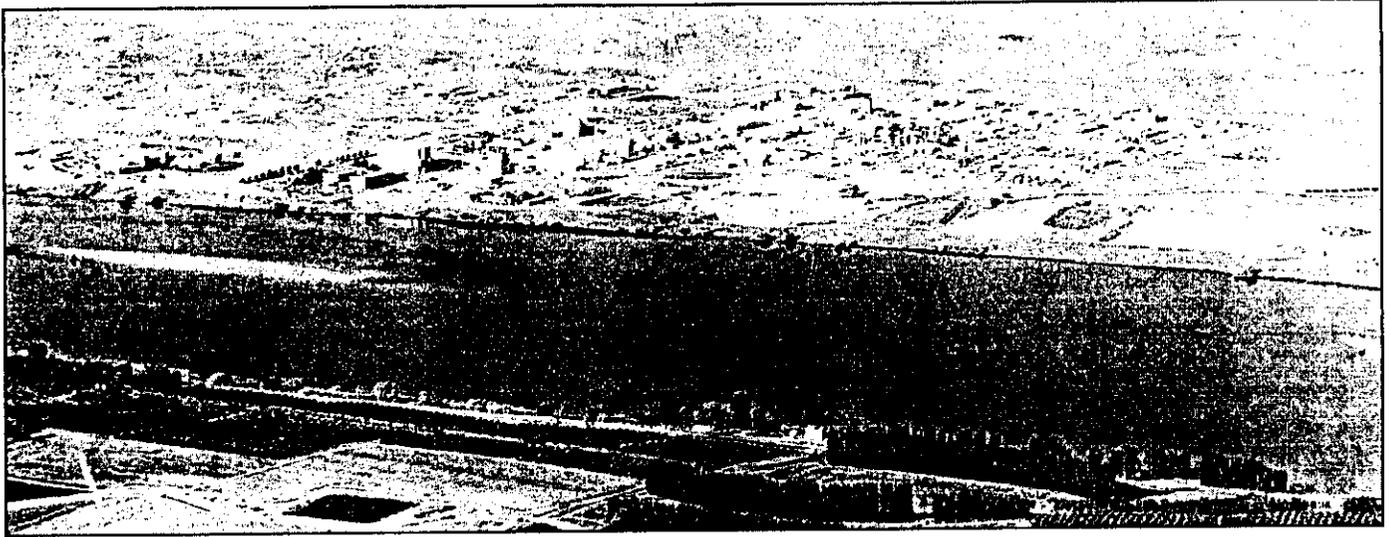
- RL provides Ecology schedule status weekly
- Three shift operations began 10/02/00
- ✿ Several B-Cell MW containers have exhibited unexpectedly high dose rate readings (exceeding 1000 millirem/hour), the dose readings are high enough to cause a delay in shipping

### Status

- Resources are being applied towards resolution of the problem and definition of the appropriate path forward

# Project Summary

- ✿ Work continues to progress, and adjustments in workscope logic to the critical path schedule are being made to assure M-89-02 is still achievable by 11/30/00. There is presently no schedule allowance for any significant occurrence if the milestone is to be met. RL has not provided any relief to the contractor and continues to stress the need to meet this commitment. The contractor has established around the clock work teams to press toward this goal



# **Nuclear Materials and Facility Stabilization**

Milestone  
TPA-M-92



IAMIT Meeting October 24, 2000  
Tri-Party Agreement  
Milestone Status Report

Ecology Program Manager – FW Bond  
DOE-RL Program Manager – DT Evans  
FH Environmental Sponsor – JM Barnett

# Milestone M-92-00 Interim Milestones and Target Dates

Milestone	Description	Target Date	Status
M-92-00	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for the storage, treatment/processing, and disposal of Hanford Site cesium and strontium capsules (Cs/Sr), bulk sodium (Na), and 300 Area Special Case Waste (SCW).	TBD	TBD
M-92-01	Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for sitewide consolidation, and storage prior to commercial use, or treatment and/or repackaging by DOE-TWRS.	12/31/09	On schedule
M-92-05	Inclusion of Hanford Site CS/SR "treatment and/or repackaging parameters" in DOE TWRS Phase II Request for Proposals (treatment and/or repackaging of all remaining CS/SR).	6/30/03	On schedule
MX-92-06-T01	Complete commercial disposition and/or the acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal/disposition of all Hanford Site U.	12/31/00	Submitted 9/27/00
M-92-09	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of Hanford Site Sodium.	In abeyance	On hold
M-92-10	Submit Hanford Site Sodium Project Management Plan (PMP) to Ecology pursuant to Agreement Action Plan Section 11.5.	In abeyance	On hold
M-92-11-T01	Complete disposition options for all Hanford non-radioactive sodium.	3/31/02	On hold
M-92-12	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for consolidated storage, prior to disposal of Hanford Site 300 Area Special Case Waste (SCW) and materials.	9/30/06	On schedule
M-92-13	Submit 300 Area SCW PMP to Ecology pursuant to Agreement Action Plan, Section 11.5.	9/30/00	Submitted 3/28/00
M-92-14	Complete removal and transfer, and initiate storage of Phase I 300 Area SCW and materials. Phase I inventory will consist of, at minimum, one-third the total curie content of all 300 Area SCW.	9/30/02	Submitted 3/28/00
M-92-15	Complete removal and transfer, and initiate storage of Phase II 300 Area SCW and materials. Phase I inventory will consist of, at minimum, half of the remaining curie content of all 300 Area SCW and materials.	9/30/04	On schedule
M-92-16	Complete removal and transfer and initiate storage of Phase III 300 Area SCW and materials.	9/30/06	On schedule

# Program Manager's Assessment

since last quarterly review

## ☼ **Environmental – Excellent**

- No negative environmental impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the SCW inventory

## ☼ **Safety – Excellent**

- No negative safety impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the SCW inventory

## ☼ **Cost – Excellent**

- Key milestone M-92 activities are being completed within budget

## ☼ **Schedule – Excellent**

- M-92-01: Capsules dispositioned as feedstock for vitrification plant during Phase II operations
- MX-92-06-T01: The schedule is on track. DOE believes the intent of the milestone performance standard has been met. Further resolution/discussions with Ecology are pending
- MX-92-11-T01: The residual sodium-potassium alloy (NaK) has been cleaned from the 337B high bay building cold trap cooling system this past quarter. This was the only alkali metal remaining in a liquid form

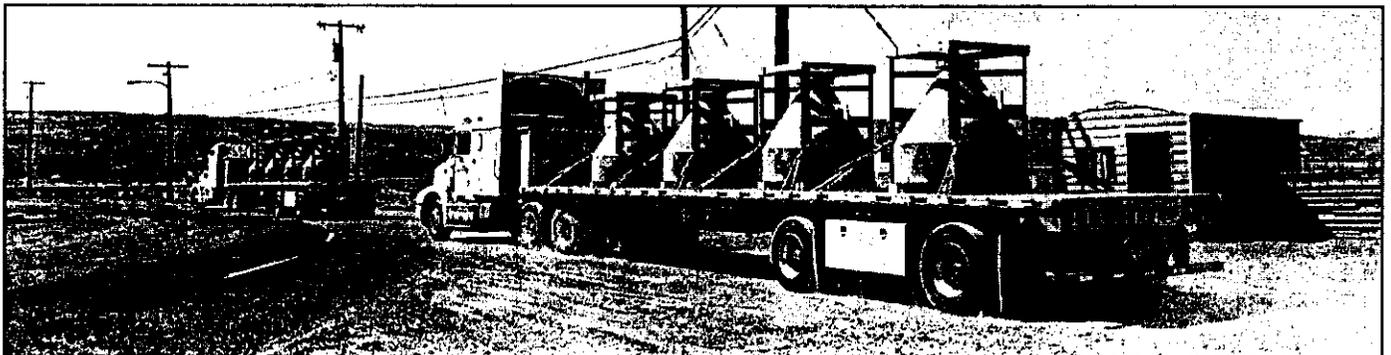
# Significant Accomplishments

since last quarterly review

## MX-92-06-T01

**The milestone performance standard is on track!**

- ✱ Commercial analysis on the value of the materials was completed in January 2000 to identify saleable and non-saleable material
- ✱ Environmental assessment to define disposition pathways for all materials was completed in June 2000. Disposition/disposal Pathways Options have now been defined for all materials
- ✱ Transfer of 184  $UO_3$  T-Hoppers to the Portsmouth Site, completed 9/26/00
- ✱ ORO has an interest in receipt of all the uranium billets, pending final approval by ORO, in accordance with the shipping and receiver agreement in place
- ✱ Preliminary performance assessment and composite analysis indicated that there is no impact in burying the un-irradiated uranium inventory materials at Hanford. The solid waste EIS will consider uranium disposal for 4,000 MTU's. This information was presented to Ecology in July



# **Significant Accomplishments** (cont'd)

since last quarterly review

## **MX-92-06-T01 cont'd**

- ✱ A cost analysis conducted on all remaining materials indicates burial for all of the uncontaminated un-irradiated uranium fuel is the least cost option for this material
- ✱ Current facilities for all the uncontaminated uranium fuel are adequate for interim storage, pending movement of materials to their final disposition, pending the Solid Waste EIS Record of Decision (ROD)

## **MX-92-11-T01**

- ✱ In September, finished safely reacting approximately one pound of residual NaK alloy in the 337B high bay building cold trap cooling system using the water vapor-nitrogen process. The resulting sodium/potassium hydroxide process and rinse solutions were shipped to the Treated Effluent Disposal Facility (TEDF) the first week of October. Rinse solutions with  $\text{pH} < 11$  were sent directly to the TEDF via the process sewer. The successful completion of this task was a result of excellent teamwork between several FFTF organizations, Cogema, and Fluor Federal Services

# Significant Planned Actions

next three months

## ☼ M-92-13

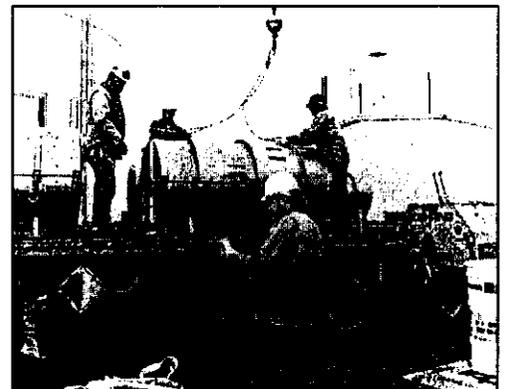
- Waiting for Ecology concurrence

## ☼ M-92-14

- Waiting for Ecology Concurrence

## ☼ M-92-15 and 16

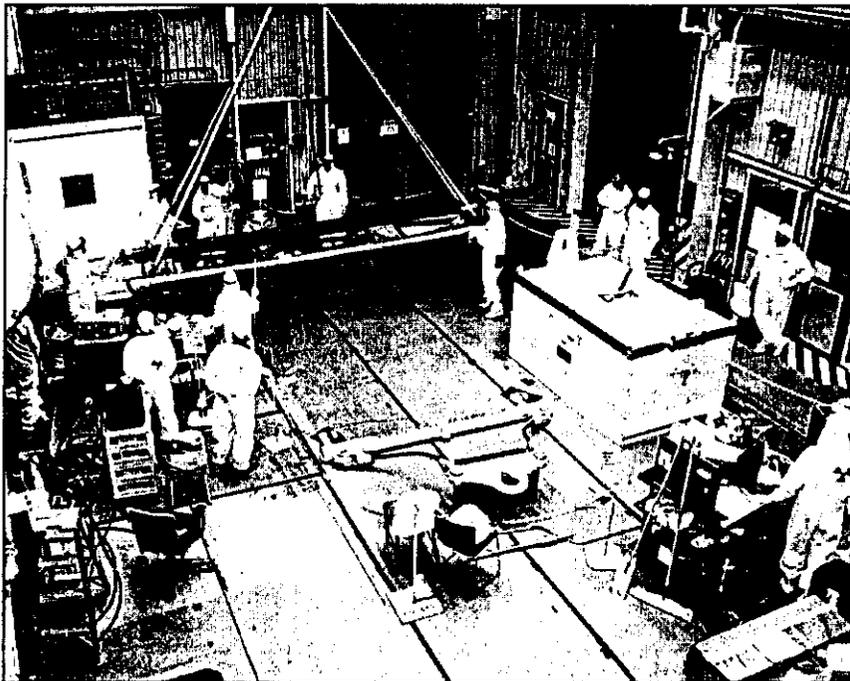
- The 324 Building is expecting to ship SCW items (e.g., metal filters, B-Cell dispersibles, etc.)
- Continue to perform characterization of the 340 Vault tanks to obtain more feasible alternatives for the tank heel removal
- All planned FY 2000 shipments from the 327 Building have been completed; the building has FY 2001 funding for only minimum safe activities



# Project Summary

The near-term milestones are being completed on or ahead of schedule!

- ☀ M-92-06-T01 (non-enforceable): On track
- ☀ M-92-13, -14: Complete
- ☀ M-92-15, -16: On schedule



# **Nuclear Material Stabilization Project**

## **Plutonium Finishing Plant Stabilization Project**

**Milestone  
TPA-M-83**

**IAMIT Meeting October 24, 2000  
Tri-Party Agreement Milestone  
Status Report**

**Ecology Project Manager - R. Bond  
DOE-RL Program Manager - L. D. Romine  
FH Project Manager - G. W. Jackson  
FH Environmental Sponsor - A. M. Hopkins**

**Plutonium Finishing Plant**

# **Nuclear Material Stabilization Project**

## **Significant Progress Achieved in FY 2000**

- ◆ **Three stabilization processes started in September 2000:**
  - ▲ Repackaging of plutonium residues into a “pipe-n-go” configuration began September 11, 2000 (meets disposition ready criteria)
  - ▲ The new Magnesium Hydroxide Precipitation Process began stabilizing plutonium nitrate solutions on September 20, 2000
  - ▲ A new system to package plutonium began September 30, 2000, via operation of the Bagless Transfer System (BTS) in the 234-5Z building
- ◆ **Overall outstanding progress made on stabilization activities in support of DNFSB Recommendation 94-1/2000-1 activities:**
  - ▲ Equivalent of six hundred fifty-eight (658) items stabilized through PFP’s thermal stabilization process; four fold increase over FY 1999
  - ▲ One hundred three (103) liters of plutonium solutions stabilized through the Magnesium Hydroxide Precipitation Process
  - ▲ Twenty-eight (28) Kgs bulk plutonium residues made “disposition ready” via pipe-n-go packaging
  - ▲ BTS system made operational with two (2) can packaged to new DNFSB Recommendation 2000-1 criteria for inner packaging
- ◆ **Significant improvement in both schedule and cost performance achieved in September resulting in overall favorable cost variance for the NMS Project**
- ◆ **1,000,000 hours without a lost workday injury**

**Plutonium Finishing Plant**

# **Nuclear Material Stabilization Project**

## **TPA Negotiations**

- ◆ **TPA change package M-83-00-01 signed 9-1-00. Establishes two interim milestones and beginning of PFP Section 8 Transition Phase negotiations**
  - ▲ Establishes interim milestone M-83-07 for completion of repackaging Rocky Flats ash mixed waste in the PFP and ship to Central Waste Complex (CWC) by April 30, 2001
  - ▲ Establishes interim milestone M-83-08, to complete requirements for shipment of RF Ash mixed waste to WIPP - date TBD
  - ▲ Agreement to begin negotiations for disposition of Hanford Ash mixed waste by October 31, 2000 (scheduled for 10/25/00)
- ◆ **Assessment for transition completed by Ecology**
  - ▲ Supports TPA negotiations begun 9/1/00
- ◆ **Both DOE and Ecology ready for further TPA negotiations. Formal PFP transition negotiation startup currently planned for June 2001 startup**
- ◆ **Technical discussion meetings are occurring monthly**

**Plutonium Finishing Plant**

# Nuclear Material Stabilization Project

## Pu Oxides and Metals Stabilization

### Major Accomplishments

- ◆ Thermal Stabilization continued to support solutions stabilization via thermal processing of the magnesium hydroxide precipitate
- ◆ Thermal Stabilization successfully opened, brushed, and transferred two metal items to the Bagless Transfer System for placement into a welded can and return to vault storage
- ◆ Milestone TRP-00-503, "Complete AOP/EPA review for alloy processing and issue the Notice of Construction by September 30, 2000", was completed Tuesday, September 26. The muffle furnace 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 concluded submittal to the Washington State Department of Ecology was not required.



### Planned Accomplishments

- ◆ Process metals via brushing and thermal stabilization as necessary. Bring the processing rate up to full scale as soon as possible
- ◆ Support Solutions stabilization by thermal stabilization of the  $Mg(OH)_2$  precipitate
- ◆ Complete startup of the Supercritical Fluids Extraction equipment for moisture measurement
- ◆ Establish a detailed plan of action for the disposition of all Pu alloys
- ◆ Begin preparations for processing polycubes by starting the ALARA, safety and criticality analyses

**Plutonium Finishing Plant**

# **Nuclear Material Stabilization Project**

## **Residues Stabilization**

### **Major Accomplishments**

- ◆ Qualification of Segmented Gamma Scanner Assay System (SGSAS) for cans of Rocky Flats ash containing up to 88 grams
- ◆ Completion of readiness activities for startup of Pipe-n-Go
- ◆ Concurrence on Tri-Party Agreement milestone on the storage of Rocky Flats ash
- ◆ Completion of Safety Analysis Report for Packaging (SARP) documentation for shipment from PFP to the Central Waste Complex (CWC)
- ◆ Repackaged 29 kg bulk of Rocky Flats ash
- ◆ Completed redesignation of SS&C



### **Planned Accomplishments**

- ◆ Complete qualification of SGSAS to 278 grams
- ◆ Shipment of POCs to CWC (first shipment planned for November)
- ◆ Completion of repackaging activities for Rocky Flats ash (310kg bulk)
- ◆ Complete designation of Hanford ash
- ◆ Complete feed shift review for Hanford ash
- ◆ Initiate repackaging activities on Hanford ash

**Plutonium Finishing Plant**

# **Nuclear Material Stabilization Project**

## **Plutonium Bearing Solutions Stabilization**

### **Major Accomplishments**

- ◆ The new Magnesium Hydroxide Precipitation Process [ $\text{Mg}(\text{OH})_2$ ] began stabilizing plutonium nitrate solutions on September 20, 2000

### **Planned Accomplishments**

- ◆ Continue processing solutions
- ◆ Complete FSAR addendum for flush solutions (organic solutions)



**Plutonium Finishing Plant**

# Nuclear Material Stabilization Project

## W-460

### Major Accomplishments

- ◆ BTS in 234-5Z is operational and production of welded cans has begun
- ◆ Funds allocated and sent to WSRC for another BTS, outer can welder, and a calorimeter for installation in 2736-ZB



### Planned Accomplishments

- ◆ Procure and install stabilization and packaging equipment (SPE) gloveboxes and components in the 2736-ZB Complex
- ◆ Approve vault design and begin modification of vault to safely store the 3013 packages

**Plutonium Finishing Plant**