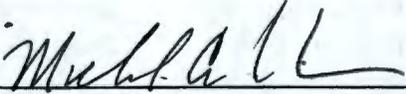


MEETING MINUTES
JULY 24, 2001
TRI-PARTY AGREEMENT MILESTONE REVIEW

0057053

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

Date: 2/26/02

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

Date: 3/18/02

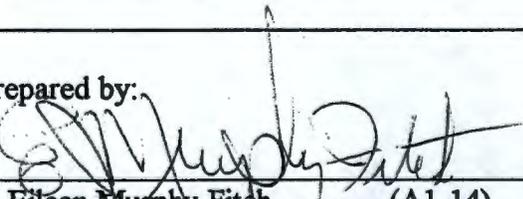
RECEIVED
 APR 30 2002

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

Date: 3/12/02

EDMC

Minutes Prepared by:

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

Date: 1/29/02

Ballard, W. W.	RL	A5-12	Hawkins, G.H.	RL	A5-16
Barnett, J. M.	FH	L1-05	Hebdon, J. B.	RL	A5-12*
Bath, S. S.	FH	H8-71	Hedges, J.	Ecology	B5-18
Blair, P. S.	FH	X4-05	Henry, D.	ODOE	
Blazek, M. L.	ODOE*		Hertzel, J. S.	FH	A1-14*
Bond, R.	Ecology	B5-18	Hiegel, B.	DOE	A4-79*
Boston, H. L.	ORP	H6-60	Holt, R. G.	RL	R3-11
Boyer, N.	FH	L5-66	Hopkins, A.	FH	H5-24
Brown, M.	Ecology	B8-15*	Hull, T.	DOE-HQ	EM-43
Clark, C. E.	DOE	A5-15*	Iwatate, D. F.	FH	A1-14*
Crocker, J.E.	FH	H5-24	Langstaff, D.	RL	L1-08
Cusack, L.	Ecology	B5-18*	Loscoe, P. G.	RL	R3-81
Dagan, E. B.	RL	A5-15	Mattlin, E. M.	RL	A2-15
Dahl, S.	Ecology	B5-18	Morrison, R. D.	FH	A1-14*
Day, P.	H&N	X3-80	Murphy-Fitch, E. J.	FH	A1-14*
Erickson, T.	FH	G1-02	Piippo, R. E.	FH	A1-14*
Evans, D.	RL	A6-38	Price, J.	Ecology	B5-18
Gadbois, L.	EPA	B5-01	Rasmussen, J. E.	ORP	H6-60
Gerber, M.	FH	B3-30*	Richards, J.	CTUIR	
Guillen, R.	RL	A6-38	Riess, M. J.	CHG	A1-14*
Hahn, M.	RL	R3-79	Rodriguez, H. M.	RL/ORP	A5-15*
Hales, J. E.	FH	A1-14	Ruud, L.	Ecology	B5-18*

Sanders, G. H.	RL	H0-12	Wicks, J.	FH	X3-71
Shelor, J.	FH	X4-04	Wilson, M. A.	Ecology	B5-18*
Sherwood, D. R.	EPA	B5-01*	Wisness, S. H.	RL	A2-15
Skinnarland, E. R.	Ecology	B5-18*	Yerxa, J. K.	RL	A5-15
Stanley, R.	Ecology	Lacey*	Administrative Record	EDMC	H6-08*
Strankman, F. O.	CHG	H4-02	* w/Attachments	File: <i>NEW</i>	
Thompson, S.	FH	G1-30	<i>TPAM_07_01..doc</i>		
Templeton, D. W.	RL	L1-08			

Tri-Party Agreement Milestone Review
July 24, 2001

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the next activities to be addressed. They are behind the original target dates (at the beginning of the FY). The D- Cell will be completed and the REC trench will be 2nd quarter next year.

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ATTENDEES

**Tri-Party Agreement Milestone Review
July 24, 2001**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>ATTACHMENTS</u>
STEVE VEITENHEIMER	RL-SFO		N
STACY HELMANN	RL-SFO		N
Mark French	RL-SFO	A4-79	N
Bob Huck	RL-SNF		N
Joel Heddon	RL-RCA		N
MIKE WILSON	ECOLOGY		
Doug Sherwood	EPA	B5-01	✓
Paul Day	SNF Project		
Rick Bond	Ecology		
Jane Bartus	EPA	B5-18	
Carole Rodriguez	SFO-GSSC	A4-79	
DEANNA HENRY	OREGON ENERGY		625 MARLOW ST. NE SALZM, OR 97301-3742 Vadanna.henry@state.or.us (503) 943-6430
BOB QUINN	FH TPA	A1-14	✓
Deborah Jewette	FH TPA	A1-14	✓
JOE RICHARDS	CTUR Hartford ops.	mail to: 750 Swift BLVD. Suite 12 Richland, WA 99352	✓
Dave Templeton	DOE-RL	L1-08	
Matthew Barnett	FH-RCP	L1-05	No
DAVID T. EVANS	RL-FTD		
JON YERXA	DOE-RL-RCA		
Shirley A. Williams	DOE-RL-RCA		
Mark Hahn	DOE-RL-PTD		
Allison Wright	DOE/RL-PTD	T5-88	
Kim Simmel	Ecology		
Nancy Zemblo	Ecology		

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M-20 Milestone Status Permits and Closure Plans



Presented by

Ellen M. Mattlin
U.S. Department of Energy

July 24, 2001



U.S. 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 Storage ILAW Facility Part B permit application to Ecology

Current Milestone Status:

DOE is working to the M-20-56 and M-20-57 milestone submittal dates. The issuance of the NOI for the Immobilized Low Activity Waste (ILAW) is expected by August. However, the Part B permit applications will be submitted to Ecology using conceptual design information.

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:

Secretary of Energy Spencer Abraham suspended a previous administration decision in the NI-PEIS ROD to permanently deactivate the Fast Flux Test Facility (FFTF) down in order to complete a review of all available information and ensure that all relevant factors affecting the decision to close the FFTF are addressed. The milestone remains in abeyance. Following completion of this review and pending a decision to deactivate the FFTF, a draft change package will be submitted reflecting the mission direction.

Closure Plan Milestone Status (cont.)

M-20-33 10/31/2003

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

M-20-39 2/28/2003

Submit 216-S-10 Pond and Ditch Closure/Postclosure Plans to Ecology in coordination with the work plan for the Chemical Sewer Group, M-13-21

M-20-52 12/31/2003

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

M-20-53 12/31/2003

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

M-20-54 2/28/2004

Submit 241-CX Tank System Closure/Postclosure Plan to Ecology in coordination with the work plan for the Infrastructure Waste Group

Current Milestone Status:

By August 2001, a TPA Change Request will be presented to EPA and Ecology that would propose modifying the M-13 / M-20 interim milestone dates to realign them with the M-15 RI/FS activities based on DOE's alternate assessment approach for the associated Operable Units.

Hanford Facility RCRA Permit Status

- DOE filed a Notice of Appeal (NOA) of the Permit, Revision 7 (Modification E) with the Pollution Control Hearing Board (PCHB) on 3/30/01. The pre-hearing before the PCHB was held on 5/22/01, in Lacey, Washington. Statement of Issues, List of Witnesses, and List of Exhibits was presented and filed.
- DOE submitted Class 1 modifications to correct the corrective action portion of the Permit (Permit Condition II.Y.) as outlined in PCHB 00-050 Stipulation and Agreed Order of Dismissal, Exhibit A Permit Language Modifications.

Accomplishments (last 3 months)

- DOE delivered Class 1 modifications to Ecology (4/10/01 and 7/10/01). The 7/10/01 submittal included Attachment 33, Chapter 5.0.
- Ecology completed review of the proposed changes to Attachment 33, Chapter 5.0 (groundwater) and provided comment, and met with DOE/contractor staff to review the proposed changes.
- DOE submitted to Ecology responses for the Low-Level Burial Grounds (LLBG) Chapter 1 NOD comments (7/01).
- DOE submitted draft responses for the LLBG Part A, Form 3, NODs
- DOE transmitted a letter to Ecology requesting to resume TSD unit operations at 2401-W Waste Storage Building (6/29/01).

Planned Actions (next 6 months)

- Ecology issue Revision 8 (Modification F) to the Dangerous Waste portion of the Permit that incorporates the 222-S Laboratory Complex and temporary authorizations.
- EPA issue Revision 1 to the HWSA portion of the Permit.
- Ecology issue NOD comments for T Plant Complex Part B permit application (currently holding workshops to resolve issues resulting from Ecology's review of the Part B permit application).
- DOE will submit draft responses to Ecology for the LLBG Chapter 1.0 NOD Comments.
- Ecology issue NOD comments (Chapters 2.0 – 15.0) to the LLBG Part B permit application DOE submitted in 8/00. Ecology's progress on NODs for Chapters 2.0 – 15.0 is contingent upon resolution of the NODs for Chapter 1.0, Part A, Form 3 permit application.

Planned Actions (next 6 months)

- DOE schedule workshops with Ecology to resolve NOD comments on the River Protection Project – Waste Treatment Plant.
- Ecology understands that ORP has authorized BNI to perform an optimization study for various physical and regulatory pathway options for immobilized low activity waste. Any change from the current pathway (e.g., no delisting, long-term storage/disposal in the ILAW trenches) will require a change to the TPA with respect to permitting milestones. Ecology expects DOE to comply with TPA milestones, any related deliberations notwithstanding.
- Ecology expects that DOE will continue to plan and conduct work per the schedules established in in the TPA during all discussions of the TPA Change Requests unless/until the changes are approved for inclusion in the TPA.

Planned Actions (next 6 months cont.)

- Ecology complete review of backlog Class 1 modifications submitted for quarters ending 12/31/00, 3/31/00, 6/30/01, and for Attachment 33, General Information Portion submitted 8/00 (Chapters 1.0 – 4.0 and 6.0 – 15.0).
- Ecology review the revised Chapter 5 submitted with the latest Class 1 permit modification package.
- Ecology expects DOE to submit draft TPA change request packages for M-13 and M-20 Milestones no later than 8/30/01.
- DOE submit to Ecology WESF Part A, Form 3, Revision 2.
- DOE submit to Ecology 616 NRDWSF closure documentation.
- DOE submit to Ecology 300 Area WATS closure documentation.

Hanford Spent Nuclear Fuel Project

Tri-Party Agreement M-34 Milestone Review



Mark French
U.S. Department of Energy,
Richland Operations

July 24, 2001



Tri-Party Agreement (TPA) Milestone Status

for Milestones with Due Dates through December 2003

<i>TPA Milestone</i>	<i>Description</i>	<i>Due Date</i>	<i>Status</i>
M-34-26-T01	Approve Start of Construction for the K East Basin and K West Basin facility modifications for Alternate Fuel Transfer Strategy cask transportation system	9/30/01	On Schedule
M-34-29	Complete K East Basin and K West Basin facility modifications for Alternate Fuel Transfer Strategy cask transportation system	3/31/02	On Schedule
M-34-12-T01	Complete construction of K East Basin Sludge and Water System to support spent nuclear fuel removal	9/30/02	On schedule
M-34-17	Initiate removal of K East Basin Spent Nuclear Fuel	11/30/02	On schedule
M-34-08	Initiate full scale K East Basin sludge removal	12/31/02	On Schedule
M-34-18A	Complete Removal of 190 Multi-Canister Overpacks of Spent Nuclear Fuel from K West Basin	12/31/02	On schedule
M-34-27-T01	Complete Removal of 244 Multi-Canister Overpacks of Spent Nuclear Fuel from K West Basin	5/31/03	On Schedule
M-34-28	Complete Removal of 311 Multi-Canister Overpacks of Spent Nuclear Fuel from K West Basin	12/31/03	On Schedule

TPA Milestone Status

Milestone(s) Complete in 3rd Quarter FY01

- No milestones were due during this quarter

Milestones due in next 6 months:

- **Target Date M-34-26-T01 “Approve Start of Construction for the K East Basin and K West Basin facility modifications for Alternate Fuel Transfer Strategy cask transportation system.”** This target date shall be complete when DOE signs the Critical Decision 3, Approve Start of Construction. The Preliminary Documented Safety Analysis, as required by 10 CFR Part 830, Section 830.206, shall be complete and approved by DOE. Additionally, the design report(s) for the Cask Transport System shall be complete. The design report(s) scope shall include all components and modifications necessary to facilitate transfer of SNF from KE into KW. It is understood that preparatory work such as debris removal and other site preparation activities may be initiated prior to the start of construction approval.

– *Scheduled for completion 9/30/01; currently on schedule*



Significant Accomplishments

- **Completed shipment of ten MCOs from K West Basin to CVDF (for a cumulative total of sixteen). Also completed processing of the MCOs at CVDF and placement in the storage tubes at the CSB**
- **Issued procurement for design of fuel transfer cask for Fuel Transfer System**
- **Submitted CDR for sludge handling at T-Plant**
- **Made significant progress on KW Basin upgrades to increase fuel removal rate including the installation of two secondary process tables and three empty basket stands**
- **Initiated a dry run of the Shippingport Drying/Inerting System at T Plant and received the first 3 Shippingport Spent Fuel Canisters at the Hanford Site**
- **Implemented a modified security posture for the Project, saving time in accessing the basins and expediting operator training**
- **The SNF Project has achieved over three million safe work hours without a lost-time accident**
- **Successful maintenance outage**



SNF Project Issues/Concerns

- **Increasing MCO throughput rate to meet TPA milestone commitments**

Upcoming Activities

- **Continue processing of spent nuclear fuel**
- **Continue design for FTS and sludge retrieval**
- **Initiate K West Basin spent nuclear fuel canister cleaning operations**
- **Complete preparation for transfer of Shippingport fuel to the CSB**
- **Update CERCLA Remedial Design Report / Remedial Action Work Plan and issue as Revision 1**



Permitting and Regulatory Issues

- **None**

Non-TPA Regulatory Issues with Potential to Impact TPA Milestones

- **Notices of Construction: Timely approval of revisions to K East and K West Basins fuel removal NOCs.**
- **National Environmental Policy Act: Timely approval of NEPA documentation for FTS.**



**Spent Nuclear Fuel Project
Financial Status thru Third Quarter FY01
(based on early start schedule)**

(\$ in 000s)				SCHEDULE	COST	
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>VARIANCE</u>	<u>VARIANCE</u>	<u>BAC</u>
EXPENSE	\$123,110	\$116,549	\$116,195	(\$6,561)	\$353	\$182,053
CAPITAL EQUIPMENT	5,569	5,442	5,045	(126)	397	5,812
GENERAL PLANT PROJ	922	400	275	(521)	125	1,471
LINE ITEM	<u>0</u>	<u>0</u>	<u>(54)</u>	<u>0</u>	<u>54</u>	<u>0</u>
TOTAL	\$129,600	\$122,391	\$121,461	(\$7,209)	\$931	\$189,336

Schedule Variance

- The unfavorable schedule variance is made up of re-planning of Site Wide SNF, Deactivation and MCO production re-planning. BCR's are in progress.

Cost Variance

- The favorable cost variance is primarily driven by under runs in the Infrastructure Support account and positive passbacks.



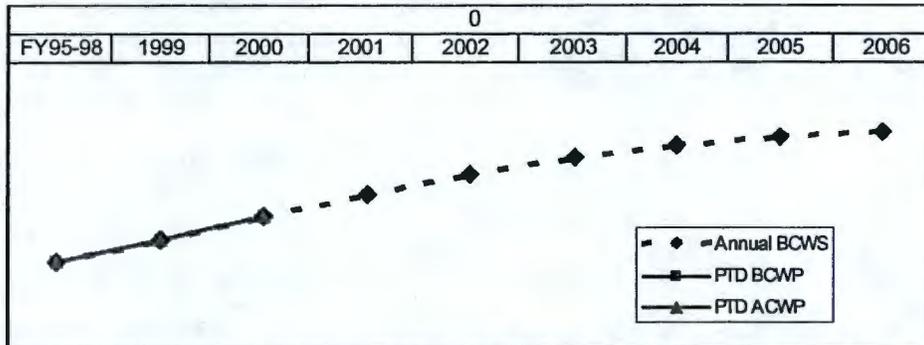
Performance Measurement Terminology

- **BCWS (Budgeted Cost of Work Scheduled)**
 - *BCWS represents the baseline budget for a scope of work over time. BCWS is normally combined with a term such as "Current Period" or "Fiscal Year to Date (FYTD)" to identify the time period the BCWS is associated with. BCWS is created by spreading the baseline cost estimate for a scope of work across its schedule activity duration based on the expected monthly level of activity. BCWS is the basis for the funding requested to perform a scope of work and is maintained through a documented change control process*
- **BCWP (Budgeted Cost of Work Performed)**
 - *BCWP represents the value of the work actually accomplished during a period based upon its budgeted value or BCWS. BCWP is a measure of the value of work based upon the physical work reported complete per the baseline schedule status update*
- **ACWP (Actual Cost of Work Performed)**
 - *ACWP represents the actual costs incurred to perform the work that was completed during a period and recorded as BCWP. For any particular period, ACWP includes accruals for costs not invoiced or booked associated with work that was performed during the period*
- **SCHEDULE VARIANCE (SV)**
 - *SV represents the difference between the work actually accomplished and the work planned or scheduled during any particular time period. (SV= BCWP-BCWS) A positive SV reflects an ahead of schedule situation while a negative SV reflects that work is behind the scheduled plan*
- **COST VARIANCE (CV)**
 - *CV represents the difference between the budgeted value of the work actually accomplished and the actual costs incurred to perform the work. (CV=BCWP-ACWP) A positive CV reflects the work being accomplished for less than its budgeted value and a negative CV reflects the work costing more to complete than planned*
- **BAC (Budget at Completion)**
 - *BAC represents the total baseline budget for a scope of work associated with either a fiscal year or life cycle. BAC is the summary of all monthly BCWS values for a scope of work within the fiscal year or life cycle. On a fiscal year end report the FYTD BCWS will equal the FY BAC*



Hanford Spent Nuclear Fuel Project

SNF Project - Total Project Baseline



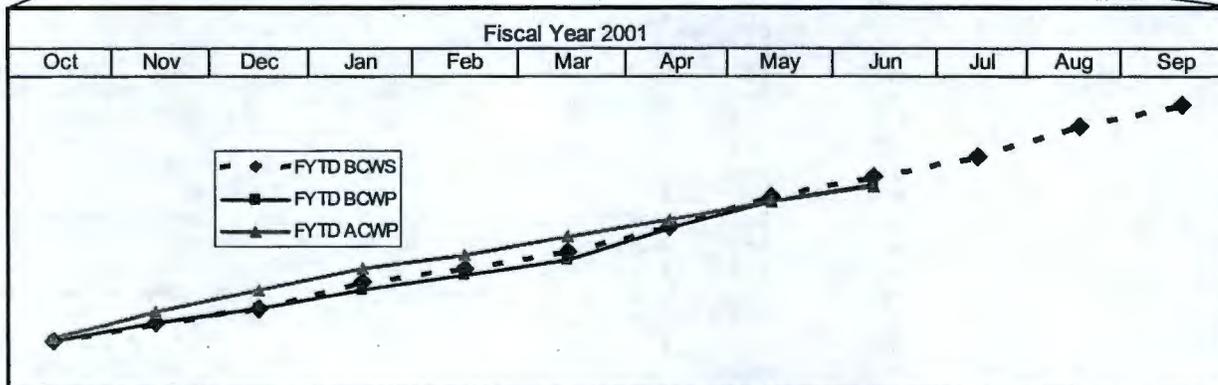
Life Cycle	
*BAC=	1,619,704
EAC=	1,619,704
CV=	0
Trend=	-

*Includes \$27,633K for FY2007.

Year End	
BCWS	182,509
Forecast	183,556
Delta	(1,047)

Project to Date	
BCWS=	1,049,976
BCWP=	1,038,484
ACWP=	1,041,552
SV=	(11,492)
CV=	(3,067)

Annual BCWS	533,003	718,612	920,376	1,102,885	1,272,340	1,403,891	1,508,674	1,579,444	1,619,704
PTD BCWS	533,003	718,612	920,376	1,049,976					
PTD BCWP	533,003	717,915	916,093	1,038,484					
PTD ACWP	533,003	718,798	920,091	1,041,552					
% Sch	32.9%	44.4%	56.8%	64.8%	78.6%	86.7%	93.1%	97.5%	100.0%
% Cmpl	32.9%	44.3%	56.6%	64.1%					
SFI	1.00	1.00	1.00	0.99					
CFI	1.00	1.00	1.00	1.00					



FYTD BCWS	7,302	20,648	31,477	50,340	61,282	72,929	91,861	114,771	129,800	144,634	165,989	182,509
FYTD BCWP	7,317	20,498	31,270	44,835	55,619	67,431	90,777	110,866	122,391			
FYTD ACWP	9,805	28,227	44,446	60,594	70,666	84,914	96,643	110,294	121,461			
Sched VAR	18	(150)	(206)	(5,505)	(5,663)	(5,497)	(1,084)	(3,905)	(7,209)			
Cost VAR	(2,488)	(7,728)	(13,175)	(15,759)	(15,047)	(17,483)	(5,866)	572	931			



Hanford Spent Nuclear Fuel Project

(\$ IN 000'S)

-FYID-

EXPENSE:	BCWS	BCWP	ACWP	SCHED VAR	COST VAR	FYID	FYID	BAC
						ESTIMATED ACTUALS	ESTIMATED COST VAR	
Project Management and Integration	21,425	21,421	14,821	(3)	6,601	14,821	6,601	32,033
SNFP Acceptance Inspection (AI)	498	498	224	(0)	274	224	274	683
Project Mgmt. and Integration (Project Fee)	6,901	7,725	5,012	824	2,714	5,012	2,714	10,597
* K Basins Maint. and Oper. (Through F.M.)	12,387	12,618	15,523	231	(2,904)	15,523	(2,904)	18,116
K Basin Project Support	2,228	2,236	2,913	8	(677)	2,913	(677)	3,266
K Basins Facility Projects (Des/ Mod/ Const)	1,201	1,201	2,344	0	(1,143)	2,344	(1,143)	1,201
Fuel Retrieval Project (Des/ Mod/ Const)	560	560	402	(0)	159	402	159	560
Water Treatment (Des/ Mod/ Const)	653	653	2,344	0	(1,692)	2,344	(1,692)	653
Debris Removal Project (Des/ Mod/ Const)	1,119	377	71	(742)	306	71	306	1,346
* MCO Acquisition (Des/ Mod/ Const)	22,470	19,322	17,047	(3,148)	2,276	17,047	2,276	28,251
Cask Transportation System (Des/ Mod/ Const)	0	0	10	0	(10)	10	(10)	0
K Basin Cold Vacuum Facility (Des/ Mod/ Const)	133	133	621	0	(487)	621	(487)	133
Fuel Transfer System	688	975	530	287	445	530	445	5,153
KW Production Improvements	5,431	4,629	1,968	(803)	2,661	1,968	2,661	7,092
CSB Production Improvements	409	279	138	(130)	141	138	141	1,845
Debris Removal Project. (During F.M.)	0	0	33	0	(33)	33	(33)	661
* SNF Relocation Common Operations	23,077	23,074	21,519	(3)	1,556	21,519	1,556	31,527
* K Basin CVD Facility (Operations)	8,624	8,630	15,261	6	(6,631)	15,261	(6,631)	10,531
* Sludge Water System (Des/ Mod/ Const)	1,208	1,207	736	(0)	472	736	472	7,858
Sludge Retrieval/ Removal Operations	0	0	0	0	(0)	0	(0)	0
Transition Project Management	214	214	210	(0)	3	210	3	312
* Acquire Systems for Facility Deactivation	5,681	3,972	4,314	(1,710)	(342)	4,314	(342)	8,258
* K Basins Deactivation Operations	0	0	0	0	0	0	0	0
Canister Storage Bldg. Facility (Des/ Mod/ Const)	362	362	288	0	74	288	74	362
* Canister Storage Building Operations	4,417	4,060	7,248	(357)	(3,188)	7,248	(3,188)	7,007
* Site Wide SNF (Des/ Move Fuel to 200 ISA)	3,335	2,400	2,618	(935)	(218)	2,618	(218)	4,422
Site Wide SNF (Oper/ Maint 200 ISA)	87	0	0	(87)	0	0	0	187
SUBTOTAL EXPENSE	123,110	116,549	116,195	(6,561)	353	116,195	353	182,053
CAPITAL EQUIPMENT:								
* K Basins Maint. and Oper. (Through F.M.)	229	103	97	(126)	6	97	6	462
K Basins Facility Projects (Des/ Mod/ Const)	1,992	1,992	1,917	0	75	1,917	75	1,992
Water Treatment (Des/ Mod/ Const)	3,319	3,319	3,040	(0)	278	3,040	278	3,319
* SNF Relocation Common Operations	28	28	28	(0)	(0)	28	(0)	39
Canister Storage Bldg. Facility (Des/ Mod/ Const)	0	0	(38)	0	38	(38)	38	0
SUBTOTAL CAPITAL EQUIPMENT	5,569	5,442	5,045	(126)	397	5,045	397	5,812
GENERAL PLANT PROJECTS:								
* K Basins Maint. and Oper. (Through F.M.)	497	400	287	(97)	113	287	113	991
* Site Wide SNF (200 ISA Des/ Const)	425	0	(12)	(425)	12	(12)	12	480
SUBTOTAL GENERAL PLANT PROJECTS	922	400	275	(521)	125	275	125	1,471
LINE ITEM:								
K Basin Cold Vacuum Facility (Des/ Mod/ Const)	0	0	(106)	0	106	(106)	106	0
Canister Storage Bldg. Facility (Des/ Mod/ Const)	0	0	52	0	(52)	52	(52)	0
SUBTOTAL LINE ITEM	0	0	(54)	0	54	(54)	54	0
TOTAL SNF PROJECT	129,600	122,391	121,461	(7,209)	931	121,461	931	189,336

* Detailed information contained in this report.

SNF Project Financial Status thru Third Quarter FY 2001



Nuclear Material Stabilization Project

Plutonium Finishing Plant Stabilization Project

Milestone

TPA-M-83

**IAMIT Meeting July, 2001
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

TPA Negotiations

- ◆ **TPA change package M-83-00-01 signed 9-1-00**
 - M-83-07 —Complete: Rocky Flats (RF) ash repackaging
 - Initiate PFP TPA Transition Negotiations by June 1, 2001 (delayed to November 1, 2001)

- ◆ **TPA change package M-83-01-01A**
 - Establishes interim milestone M-83-09 for the completion of repackaging Hanford Ash mixed waste and shipment to CWC by August 31, 2002:
On schedule
 - Agreed to discuss characterization

- ◆ **TPA change package M-83-01-02**
 - Delays start of negotiations to November 1
 - Agreements
 - Crosswalk section 8 requirements with PFP planning documents
 - IPMP (available to public)
 - Conduct joint public information sessions

Nuclear Material Stabilization Project

Project Status Through June 2001

- ◆ **Packaging of 31 Pu/Al alloy items into Pipe Overpack Containers (POCs) was completed on June 19, 2001, in support of the June 30 Milestone**
- ◆ **Overall progress on stabilization activities in support of DNFSB Recommendation 94-1/2000-1 activities:**
 - 1028 items stabilized through PFP's thermal stabilization process (includes oxides and/or brushed and repackaged metal items)
 - Progress FY 2001 to June 30 is 314 items
 - 815 liters of plutonium solutions stabilized through the Magnesium Hydroxide Precipitation Process
 - Progress FY 2001 to June 30 is 562 liters
 - 365 bulk kgs Residues repackaged

Safety

- ◆ **Through June 30, 2001, there were 577 calendar days (over 1.9 million staff hours) since the last recorded lost workday injury**

Nuclear Material Stabilization Project

Project Status Through June 2001

Schedule and Cost Performance (FYTD)

BCWS	BCWP	ACWP	SV	CV	SV%	CV%	FYSF	EAC
\$82,095K	\$77,815K	\$80,040K	(\$4,280K)	(\$2,225K)	-5%	-3%	\$110,921K	\$114,586K

Unfavorable schedule variance (-\$4,280K/-5%) primarily contributed to:

- ◆ **Behind schedule performance on the Metals, Alloys and Solutions Stabilization tasks due to technical and operational challenges (also impacts cost variance)**
 - Higher than planned oxidation rates for metals
 - Retraction of SFE measurement methodology for moisture by DOE impacts alloy stabilization (alternate moisture measurement required)
 - Higher than planned precipitate through the Mg(OH)₂ process continues
 - Fire in control panel supporting HA-21I furnaces
- ◆ **Upgrade projects (Parking lot, CAM upgrades, etc.) behind schedule because resources redirected to support Project W-460 schedule recovery activities**
- ◆ **Operational efficiencies on Solution Stabilization have forecasted delayed completion of two DNFSB milestones**
 - Complete Solutions Stabilization, due December 31, 2001
 - Complete Stabilization of Polycubes, due August 31, 2002
- ◆ **While completion of some DNFSB Recommendation 94-1/2000-1 activities are behind schedule, overall completion six months ahead, by 11/30/03, is still forecast**

Nuclear Material Stabilization Project

Project Status Through June 2001

Schedule and Cost Performance (FYTD) (con t)

BCWS	BCWP	ACWP	SV	CV	SV%	CV%	FYSF	EAC
\$82,095K	\$77,815K	\$80,040K	(\$4,280K)	(\$2,225K)	-5%	-3%	\$110,921K	\$114,586K

Unfavorable cost variance (-\$2,225K / -3%) primarily contributed to:

- ◆ **Increased costs due to schedule recovery actions on Project W-460**
 - Due to schedule recovery actions both capital Line Item and expense costs are over running. Corrective actions have been developed and implemented.
- ◆ **Operational difficulties with the 234-5Z Bagless Transfer System**
 - Results in higher per unit cost for packaging stabilized metal items
- ◆ **Increased costs to complete metal and alloys stabilization (see schedule variance)**
- ◆ **Additional costs associated with completing the packaging and shipping of Rocky Flats Ash**
- ◆ **Fiscal year spend forecast exceeds available funds by \$3.4M**
 - FYSF - \$110,921K; available funds - \$107,536K; Delta: (\$3,385K)
 - FHI has developed and implemented recovery actions even if FY 01 supplemental funding from Congress not available - cost overrun will not occur

Nuclear Material Stabilization Project

Thermal Stabilization (Pu Oxides, Metals, Alloys)

Major Accomplishments

- ◆ A total of 298 metal items have been brushed and packaged in BTCs and 33 items oxidized, stabilized and sealed out in food pack cans this fiscal year°
- ◆ Thermal stabilization and packaging of Pu alloys was initiated
- ◆ Seven alloy items were tested for stability in the PPSL. As a part of testing, the items were fully stabilized to 3013 criteria
- ◆ Preparations for startup of BTC packaging of oxides were initiated

Planned Accomplishments

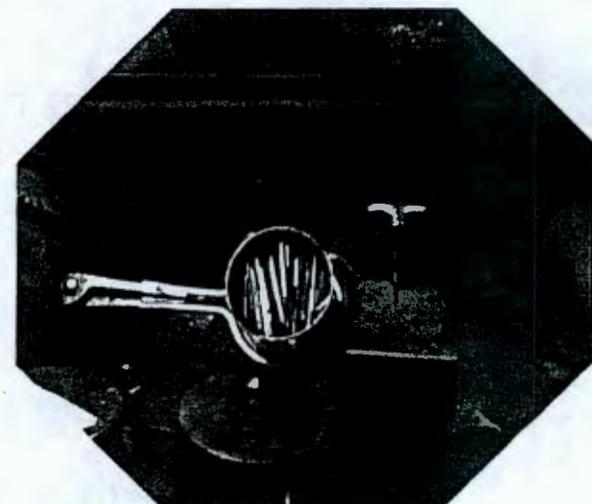
- ◆ Complete metal stabilization and package into 3013 compliant containers by August
- ◆ Continue to support Solutions stabilization
- ◆ Complete preparations for stabilization of polycubes and demonstrate the process by the end of this fiscal year

Nuclear Material Stabilization Project

Residues Stabilization

Major Accomplishments

- ◆ Completed repackaging of 31 Pu/Al alloy items (in support of Alloy milestone)
- ◆ 27 bulk kg of Hanford Ash repackaged
 - Of ~350 bulk kg



Planned Accomplishments

- ◆ Resume repackaging of Hanford Ash, suspended for alloy work
- ◆ Initiate installation of a calorimeter for measurement of residues
- ◆ Complete DQO on remaining Pu alloy items
- ◆ Initiate activities for initiation of repackaging of SS&C

Nuclear Material Stabilization Project

Plutonium Bearing Solutions Stabilization

Major Accomplishments

- ◆ 629 of approximately 4200 liters stabilized as of June 30, 2001
- ◆ Implementing oxalate precipitation & direct discard options to improve throughput & production rates

Planned Accomplishments

- ◆ Complete startups for the oxalate precipitation & direct discard
- ◆ Continue processing with product nitrate solutions due to ongoing reviews with moisture measurement

Issues

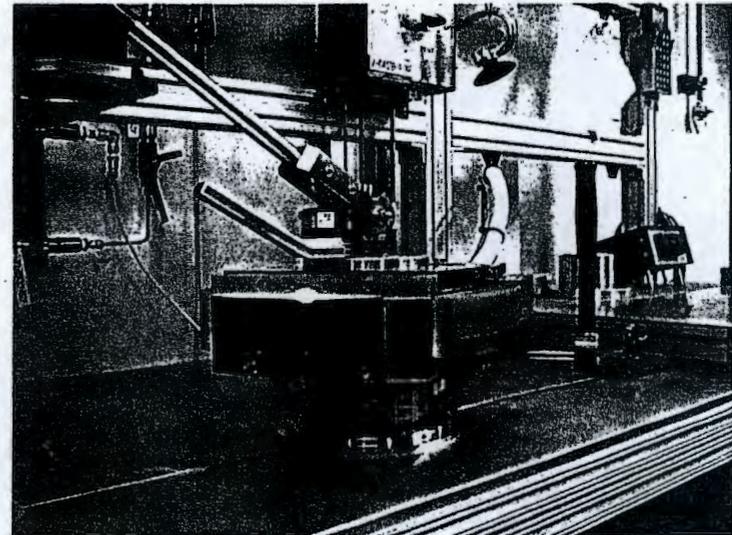
- ◆ Due to current reviews in progress with moisture measurement, solutions stabilization limited to product nitrate family of solutions
- ◆ TPA CR for direct discard is being evaluated

Nuclear Material Stabilization Project

Packaging

Major Accomplishments

- ◆ Through June 30, 2001, the Outer Can Welder has produced two hundred and eleven (211) DOE-STD-3013 containers
- ◆ Facility completed the Standard Start up Review for the 2736-Z vault modifications required for storage of 3013 containers
- ◆ All vault racks scheduled to be installed in FY01 have been fabricated and installed providing the plant with the needed rack configuration for the 3013 outer cans
- ◆ Teamed with PNNL to develop remote monitoring system



Planned Accomplishments

- ◆ Complete packaging of metals into 3013 compliant containers by August

Nuclear Material Stabilization Project

Issues/Request for Assistance

- ◆ **NDA corrective actions resulting from WIPP audit of PFP Residues Project**
 - No measurement / calculations of U234 are being made for container being assayed using the SGSAS instrument
 - On 10/27/00, the SGSAS was adjusted by a service technician resulting in a loss of measurement control. The instrument was not recalibrated until 3/27/01. No Nonconformance Report (NCR) was written to take corrective action for the data generated in the timeframe the instrument was out of calibration
- ◆ **TPA change request for direct disposal of Solutions**
- ◆ **Participation in DQO for Alloys**



324 Facility Stabilization



Milestone TPA-M-89

IAMIT Meeting July 24, 2001
Tri-Party Agreement
Quarterly Milestone Review 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 mixed waste and equipment	11/30/00	Completed 7/18/01



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 last quarter

■ **Cost – Good**

- Third quarter FY 2001 found 324 Building B-Cell cleanout activities tracking slightly above the authorized funding



Program Manager's Assessment

Since last quarterly review

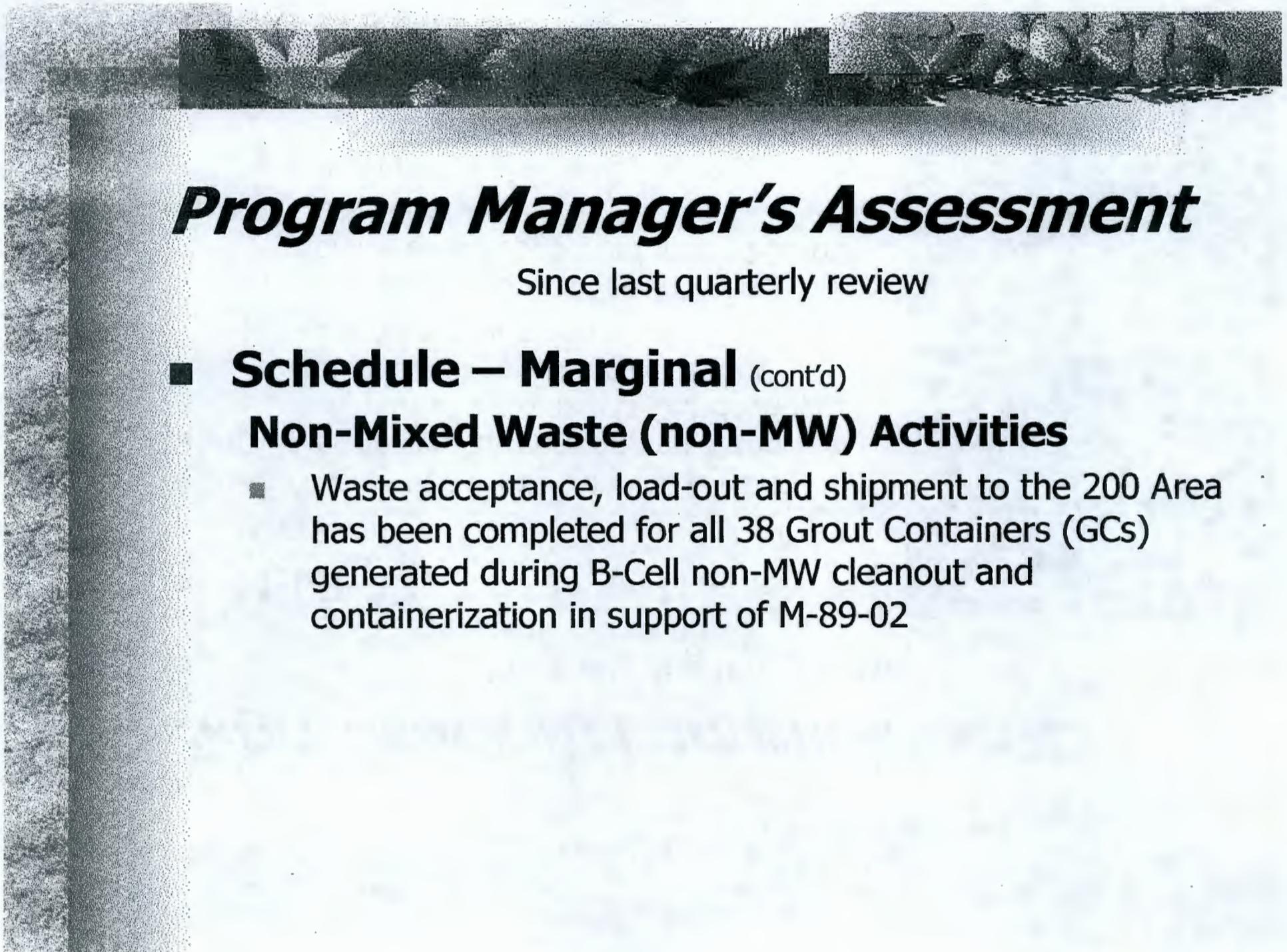
■ **Schedule – Marginal**

General

- Continued preparations for future M-89-00 work involving D-Cell cleanout and REC pipe trench cleanout activities
- The 324 Building completed shipping M-89-02 non-mixed waste to meet the July 31, 2001 commitment
- RL, FH, and Ecology continue to use the M-89-02 Completion Checklist to measure M-89-02 progress

Mixed Waste (MW) Activities

- Note: M-89-02 MW shipments were completed on March 22, 2001



Program Manager's Assessment

Since last quarterly review

- **Schedule – Marginal** (cont'd)

- Non-Mixed Waste (non-MW) Activities**

- Waste acceptance, load-out and shipment to the 200 Area has been completed for all 38 Grout Containers (GCs) generated during B-Cell non-MW cleanout and containerization in support of M-89-02

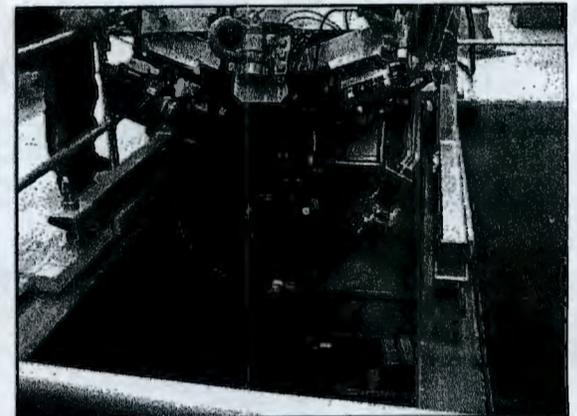
Significant Accomplishments

Since last quarterly review

■ **M-89-02**

General

- Continued waste planning & work planning activities and preparations in support of upcoming D-Cell cleanout and airlock pipe trench cleanout activities supporting M-89-00
- Continued robotics development activities in support of future M-89-00 activities
- Provided Ecology a tour to observe the robotics equipment in the 306 Building



Significant Accomplishments

Since last quarterly review

■ **M-89-02** (cont'd)

Non-Mixed Waste Removal Activities

- Completed shipment of all remaining M-89-02 GCs
- Completed design & fabrication of a new (different) spreader bar for lifting the 3-82B casks

Key Maintenance Activities/Others

- Continued planning activities and preparations for future Spent Nuclear Fuel (SNF) removal to 200 Area canister storage building location
- Obtained WDOH approval (June 26, 2001) and EPA approval (June 29, 2001) for Notice of Construction (NOC) for deactivation activities at the 324 Building, involving D-Cell and REC pipe trench cleanout, and other deactivation and closure (M-89-00) activities



Issues

- **Issue** - Critical path schedule to complete M-89-02 removal of the B-Cell related non-mixed waste by July 31,2001 has no contingency to accommodate significant program delays
 - **Status** – Shipments were completed July 18, 2001
- **Issue** - Non-mixed waste shipping cask Certificate of Compliance (CoC) required time extension
 - **Status** - The cask CoC extension was completed and approved by the Nuclear Regulatory Commission as submitted by ATG, the cask owner
- **Issue** - One B-Cell non-mixed waste GC container dose rate readings exceeded Waste Management standard acceptance values requiring special arrangements and acceptance documentation and authorization
 - **Status** - The SARP for the 3-82B shipping cask was revised and approved on June 12, 2001; and, a waste package specific evaluation was prepared and approved to authorize shipment. Special controls for transferring the GC to the 200 Area were implemented



Significant Planned Actions

Next three months

■ **M-89-02**

- Complete shipping B-Cell non-mixed waste to 200 Area by July 31, 2001 thereby completing Interim Milestone M-89-02 per the M-89-02 Completion Checklist

■ **M-89-00**

- Perform D-Cell cleanout activities and ship resultant waste to 200 Area waste management facilities
- Initiate REC pipe trench cleanout activities
- Ship 8 cesium ion exchange columns to 200 Area waste management facilities



Project Summary

- Completed shipping the non-mixed waste grout containers on July 18, 2001
- Preparations are underway to begin M-89-00 cleanout activities for the D-Cell and airlock pipe trench





Nuclear Materials and Facility Stabilization

Milestone TPA-M-92

IAMIT Meeting July 24, 2001
Tri-Party Agreement
Quarterly Milestone Review 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	No Longer Applicable
MX-92-06-T01	Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for the storage, treatment/processing, and disposal/disposition of all Hanford Site U. Complete the disposal/disposition of ~5 metric tons of UO ₂ source materials located in the 300 Area Fuels Supply Shutdown Facilities and source material located in 325 and 2718-E and complete the disposition of ~235 metric tons of uranium billets located in the 300 Area.	12/31/01	On Schedule
MX-92-06-T02	Complete the disposal/disposition of ~135 metric tons of un-irradiated contaminated fuel and 5 metric tons of misc U source material, and complete the disposal/disposition of ~825 metric tons of un-irradiated fuel source material located in the Fuel Supply Shutdown Facilities.	9/30/06	On Schedule
M-92-09	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 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

Milestone M-92-00 Interim Milestones and Target Dates (cont'd)

Milestone	Description	Target Date	Status
MX-92-11-T01	Complete disposition options for all Hanford non-radioactive sodium.	3/31/02	Behind Schedule
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 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	Re-submitted April 2001
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	Complete
M-92-15	Complete removal and transfer, and initiate storage of Phase II 300 Area SCW and materials. Phase II inventory will consist of, at minimum, one-half the remaining total curie content of all 300 Area SCW.	9/30/04	Ahead of Schedule
M-92-16	Complete Removal and transfer and initiate storage of the remaining 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 Special Case Waste (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

- **Safety - Excellent**

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



Program Manager's Assessment (cont'd)

since last quarterly review

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■ **Schedule - Good**

- M-92-05
 - Milestone needs to be renegotiated as part of the overall negotiations with Ecology on the schedule for operation of the Waste Treatment Plant (Vitrification facilities)
- MX-92-06-T01
 - Completed shipping uranium billets on May 4, 2001
- MX-92-06-T02
 - Completed transfer of 135 MTU contaminated fuel to the Low Level Burial Ground on June 28, 2001
 - The SARP approval to permit red shipping box transfers to the 200 Area was achieved at the end of May, 2001
- MX-92-11-T01
 - Completed removal of insulation, controls and wiring from sodium system piping in room 108 of the 337B high bay, the cold trap room
 - Prepared procedure for removal of insulation, controls and wiring from the balance of the sodium system piping in the 337B high bay
 - Behind schedule because funds allocated to higher priority Hanford Site work

Significant Planned Actions

next three months

- M-92-09 and M-92-10
 - A change proposal will be submitted following a Secretarial decision on the future of the FFTF to re-establish due dates for these sodium disposition milestones
- MX-92-11-T01
 - Complete removal of insulation, controls and wiring from remaining sodium piping system in the 337B high bay
 - Verify sodium inventory in the Composite Reactor Component Test Activity vessel by remote inspection
- M-92-15 and M-92-16
 - The 324 facility is planning on completing the shipment of the SCW cesium ion exchange columns stored in D-Cell to the LLWBG by September 2001
 - The 327 facility is currently loading SCW comprised of legacy waste buckets and radiometallographic (met) Mounts removed from the Dry Storage carousel. Shipment is expected by September 2001
 - Continue to perform characterization of the 340 Vault tanks to obtain more feasible alternatives for the tank heel removal



Project Summary

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- M-92-05: Milestone needs to be renegotiated
 - MX-92-06-T01 (non-enforceable): Complete
 - MX-92-06-T02 (non-enforceable): On schedule
 - M-92-09 and M-92-10: Submit change proposal
 - MX-92-11-T01 (non-enforceable): Behind schedule
 - M-92-13: Revised and submitted to Ecology
 - M-92-14: Complete
 - M-92-15: Ahead of schedule
 - M-92-16: On schedule