0055168

MEETING MINUTES
JANUARY 23, 2001
TRI-PARTY AGREEMENT MILESTONE REVIEW

Approval: _____ Date: 5/22/01
Michael A. Wilson (B5-18)
Ecology IAMIT Representative

Approval: Joel Hebdon for _____ Date: 5/22/01
William W. (Wade) Ballard (A5-12)
Chairperson
RL IAMIT Representative

Approval: _____ Date: 5/22/01
Douglas R. Sherwood (B5-01)
EPA IAMIT Representative

Minutes Prepared by:

Approval: _____ Date: 5/22/01
Eileen Murphy-Fitch (A1-14)
Fluor Hanford, Inc.

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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
Boyter, 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
Shelor, J.	FH	X4-04
Sherwood, D. R.	EPA	B5-01*
Skinnarland, E. R.	Ecology	B5-18*
Stanley, R.	Ecology	Lacey*
Strankman, F. O.	CHG	H4-02
Thompson, S.	FH	G1-30
Templeton, D. W.	RL	L1-08
Wicks, J.	FH	X3-71
Wilson, M. A.	Ecology	B5-18*
Wisness, S. H.	RL	A2-15
Yerxa, J. K.	RL	A5-15
Administrative Record	EDMC	H6-08*

* w/Attachments

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M-34-00 Spent Nuclear Fuel (P. G. Loscoe/C. A. Rodriguez)

The status of the Spent Nuclear Fuel Project (SNF) was given. Tri-Party Agreement Interim Milestone M-34-16, Initiate Removal of K West Basin Spent Nuclear Fuel, was completed December 7, 2000. The target date of December 31,2000, for M-34-06-T01, Initiate K West Basin SNF Canister Cleaning Operations, was not met. A Tri-Party Agreement Change Request was submitted to EPA to extend the completion date eight months to August 31, 2001 but was rejected by EPA. The Project is on schedule for completion by August 31, 2001. Late completion of the target milestone does not impact any other SNF milestones. The next target milestone, Submit Report on Quantities, Character and Management of K Basins Debris, M-34-05-T01, due May 31, 2001, is currently forecast to be complete a schedule.

There were several significant accomplishments since November:

- Initiated removal of KW Basin Spent Nuclear Fuel
- Completed first Multi-Canister Overpack (MCO) shipment form KW Basin to Cold Vacuum Drying Facility (CVDF)
- Successfully processed first MCO at CVD
- Completed movement of the first processed MCO from CVDF to the Canister Storage Building (CSB) and placed in storage tube
- Completed loading of the next 6 fuel baskets for second shipment of the MCO
- Completed installation of the CSB backdraft dampers ahead of schedule

SNF Project Issues/Concerns:

There are issues with the MCO's shipped from the vendor. They were not to the specifications. The shipments were stopped until the vendor takes corrective actions. Currently, we are trying to determine if they are major issues – fabrication errors, documentation errors, etc. Each MCO received will be reviewed individually. If there are material errors found, the vendor will be required to replace them at their expense. Other issues of concern for SNF are the FY 01 budget management (currently $13 million overran); finalization of baseline change request to address MCO production (includes Alternate Fuel Transport Strategy [AFTS]), and resolution of oxygen sampling process issues (higher than anticipated level's of oxygen - not a safety concern).

Upcoming activities for the six months include shipment of the second MCO, completion of the definitive design for the KE Integrated Water Treatment System (IWTS)/Sludge Loadout System by April 2001; and, submittal of the Annual Debris Report in May 2001. DOE and SNF staff will review the Resource Conservation and Recovery Act (RCRA) sludge designation process with Ecology and EPA in February 2001.

SNF BASELINE/BUDGET COMPARISON (P. L. LOSCOE, J. E. CROCKER, P. S. BLAIR)

The FY 2001 budget, current baseline targets, and proposed target from AFTS/Fuel Production Enhancements were discussed. The actual-cost-of-work performed (ACW) is currently $13.0 million over

spent. The current baseline does not include carryover workscope or the bridge change request (remaining dollars/workscope from 2000 to 2001 - ~$3.0 million).

SNF ALTERNATIVE FUEL TRANSPORT STRATEGY (AFTS) (P. G. LOSCOE, J. E. CROCKER)

The AFTS proposal will move fuel from KE to KW and uses the KW Fuel Removal System (FRS) to remove fuel from the K Basins. This will significantly reduce worker exposure (radiological and personnel), environmental risk, and the amount of construction at KE. EPA stated that KE is an order of magnitude more contaminated than KW and this will be a significant impact on cost and schedule.

The AFTS Engineering Study Report showed no insurmountable challenges and recommended that the work proceed. System optimization activities are underway. The design will be different than that was in the Feasibility Study so will need to involve stakeholders. A congressional reprogramming of construction dollars to expense dollars to support this activity will not be required (that is DOE's position) since we are looking at converting capital funds to expense (and not GPP or Line Item). EPA urged DOE to verify that.

There was a lengthy discussion on SNF's proposed path forward. EPA stated that in May 2000, they signed a change request that used 2 bays in the CVD and operated 1 basin at a time for cost savings. It now appears that the new proposal goes back to the pre-May 2000 workscope. EPA asked what are the costs for the AFTS, operating 2 basins and the addition of more shifts (the change request signed in May did not include a 3 shift operation, proposed operating only 1 basin for cost efficiency, etc.). EPA would like a comparison by dollars, milestones, staff, risk to worker safety and health, the environment, etc.

EPA also expressed their growing concern to DOE over the new request for proposal (RFP) or contracts currently in process. For example, when the FH contract extension was signed, it gave FH the go-ahead to move to the AFTS. At what point were the regulators going to be told about the change in direction? EPA also stated that their agency would not approve any change request until a one-to-one comparison was done between the existing baseline and proposed baseline and then reviewed with them. Furthermore, there are to be new enforceable agreement milestones in the Tri-Party Agreement for SNF or the change request will not be approved.

FUEL PROCESSING RATE IMPROVEMENTS (P. G. LOSCOE/J. L. SHELOR)

DOE and FH are committed to meet Tri-Party Agreement milestones without diverting funds from other Projects, etc. Experience gained has lead to the development of some necessary improvements to increase system efficiency. Several initiatives are proposed. To meet the final milestone, there are 770 production days which equates to processing 139 MCOs/year. To achieve that, 1 MCO has to be completed every 52 hours. EPA asked for a comparison of staff, cost, risk, and dose, agreed to May against what is being proposed now. That should be completed ASAP.

M-20-00 PERMITTING/CLOSURE PLANS (S. H. WISNESS/E. M. MATTLIN)

Ecology is concerned that RL has directed changes to workscope prior to discussion/agreement with the regulators. Ecology stated that the Hanford RCRA Permit Modification E is in final form. When completed, modifications will be made to Part III, Final Status Operations (two new chapters CWC and WRAP; incorporates Class 3 modifications in Chapter 1, 616 Nonradioactive Dangerous Waste Storage Facility), and Part V (two new chapters 300 Area Waste Treatment System and 2401-W Waste Storage

Building). Completeness of the 222-S input has impacted the release of Modification F for public comment. DOE has 45 days to provide additional information. When the information is provided, Ecology will insert it and then release it for public comment. Mike Wilson asked if the waste handling issue was taken care of at the 222-S Laboratory – specifically cabinet full of flammable materials that needed to be taken are of. Ecology believes this is similar to an incident about 2 – 3 years ago in the 300 Area and Ecology wanted to be on the record that they were not pleased the first time and are even more displeased with the reoccurrence. Laura Rudd, Ecology, asked to be placed on distribution for Part A's. A new Part A, Form I and Form III, and Part B application for the Vit Plant is needed for the new contractor (Bechtel National Inc., Group).

M-89-00 324 BLDG CLOSURE OF MW UNITS (D. T. EVANS/D, W, TEMPLETON)

Tri-Party Agreement Interim Milestone M-89-02, Complete Removal of 324 Building REC B-Cell MW and Equipment, due November 30, 2000, was not completed. Both DOE and the contractor are committed to getting the workscope done (forecast completion date is July 31, 2001). Waste material from B-Cell is being shipped to meet the March 30, 2001, date for removal of mixed waste from B-Cell and the July 31, 2001, date for removal of non-mixed waste. A checklist was developed and adopted by RL and Ecology to use when work is completed. Ecology stated they liked the concept because the affected parties developed the list, defined the criteria for the list, etc., and should mitigate "successful completion criteria" discussion. Two concerns remain for this project 1) the potential for higher-than-anticipated dose from a loaded steel waste disposal box (SWDB) which may impact the Central Waste Complex acceptance criteria and 2) the health of the 30-ton crane. Critical repairs and annual maintenance was performed on the 30-ton crane in December and the crane was returned to service in early January 2001. Weekly status provided to Ecology.

M-92-00 FACILITIES FOR CESIUM/STRONTIUM, SODIUM AND SCW (D. T. EVANS/J. K. PERRY)

Work continues in support of this milestone. Working with DOE-HQ to increase the number of wooden billet boxes allowed on a truck (currently 3, requesting 5). This would result in a 40% cost savings. Work continues on the Red Box SARP to relocate uranium fuel materials to the 200 Area burial requires updating by March 31, 2001, to allow for burying the contaminated fuel by June 30, 2001. Comment resolution/incorporation continues on the 300 Area SCW Project Management Plan (PMP).

M-83-00 PLUTONIUM FINISHING PLANT (PFP) (L. D. ROMINE/L D. ROMINE)

Rocky Flats Ash workscope was incorporated into the Tri-Party Agreement through Tri-Party Agreement Change Package M-83-00-01. This established an interim milestone, M-83-07, for completion of repackaging Rocky Flats ash mixed waste in the PFP and subsequent shipment to the Central Waste Complex (CWC) by April 30, 2001. FH is behind schedule and cost overruns are expected; however, FH developed a recovery plan to meet the milestone. PFP transition negotiations are to resume in June 2001.

AGENDA

TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW

CHAIRPERSON: W. W. Ballard

Tuesday, January 23, 2001
712 Swift Blvd., Suite 5, EPA Conference Room

TIME	MILESTONE	TITLE	RL DIVISION DIRECTOR	PRESENTER
9:00 am	M-34-00	Spent Nuclear Fuel (SNF)	P. G. Loscoe	C. A. Rodriguez
9:30am	M-34-00	SNF MCO/Fuel Transport Strategy	P. G. Loscoe	Multiple
10:30 am	M-20-00	Permitting/Closure Plans	S. H. Wisness	E. M. Mattlin
10:45 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	D. C. Langstaff
	M-83-00	Plutonium Finishing Plant	L. D. Romine	L. D. Romine
12:00 noon	**ADJOURN**			

ATTENDEES

Tri-Party Agreement Milestone Review
January 23, 2001

NAME	ORGANIZATION	MAILSTOP	ATTACHMENTS
JEFF HERTZEL	FH/TPAI		
PETE BLAIR	FH/SNF		
Paul Day	SNF Project		
Jim Crocker	SNF Project		
Doug Sherwood	EPA		
LAUREN CUSACK	ECOLOGY		X
MIKE WILSON	ECOLOGY		
Steve Wisness	DOE-RL		
J.L. SHELOR	SNF PROJECT		
Carole Rodriguez	GSSC - SFO	R3-81	
Larry Gadbois	EPA		
Bob Kiegel	DOE-SFO		
Deborah Iwatate	FH/TPAI	A1-14	X
ROB PIIRPO	FH/TPA	A1-14	X
Rick Bond	Ecology		
Ellen Dagan	DOE/RCA	A5-15	
Janell Hales	FH-ESH		
Andrea Hopkins	FH		✓
Tom Hull	DOE HQ EM-43	EM-43	
RM Skinnard	Ecology		
Joe Swenson	SNF Project		
JANE HEDGES	Ecology		
DEMINA HENRY	OREGON OFFICE OF ENERGY		
JOSEPH RICHARDS	CTUIR Hanford OPS	Regular mail to: 750 Swift Blvd Ste 12, Richland, WA 99352	✓

ATTENDEES

Tri-Party Agreement Milestone Review
January 23, 2001

NAME	ORGANIZATION	MAILSTOP	ATTACHMENTS
Melinda Brown	Ecology	B8-15	Yes
Jim Wicks	Fluor Hanford		
T.D. Strankman	CHG		
Clifford E. Clark	DOE - RCA	A2-15	Yes
Michele Gerber	FH - SNF	B3-30	Yes
Laura Rhud	Ecology	B8-15	NO
Suzanne Dahl	Ecology		No
John Price	Ecology		
Suzette Thompson	FH	G1-30	NO
Ellen Mattlin	DOE-RL	A2-15	NO
DAVE EVANS	RL		NO
DAVE LANGSTAFF	RL		NO
TIM ERICKSON	FH - 321	L1-02	NO
RL GUILLEN	RL		No
Mark Hahn	RL-MDD (PFP)		
J Matthew Barnett	FH - RCP	L1-05	No
N.C. BOYTER	FH-		NO

Hanford Spent Nuclear Fuel Project

Tri-Party Agreement M-34 Milestone Review

Carole Rodriguez
U.S. Department of Energy,
Richland Operations

January 23, 2001

Tri-Party Agreement (TPA) Milestone Status

through December 31, 2000

TPA Milestone	*Description*	*Due Date*	*Status*
M-34-03	Submit Proposed Plan and Focused Feasibility Study for Remedial Action for the K Basins	11/30/98	Completed 11/20/98
M-34-05-T01	Submit report on quantities, character, and management of K Basins debris	Annual by 5/31	Completed 5/24/99 & 5/22/00 Due: 5/31/01
M-34-11-T01	Complete construction of K West Basin Integrated Water Treatment System	6/30/99	Completed 6/21/99
M-34-13A-T01	Complete construction and installation of K West Basin Spent Nuclear Fuel Retrieval System	7/31/99	Completed 9/30/99
M-34-15A-T01	Complete two bays of the Cold Vacuum Drying Facility construction and installation	10/31/99	Completed 10/31/99
M-34-14A	Complete K West Basin Cask Facility Modifications	2/29/00	Completed 2/29/00
M-34-04	Submit Remedial Design Report/ Remedial Action Work Plan for the K Basins	3/31/00	Completed 2/10/00
M-34-16	Initiate removal of K West Basin Spent Nuclear Fuel	11/30/00	Completed 12/7/00 (1 week late)
M-34-06-T01	Initiate K West Basin spent nuclear fuel canister cleaning operations	12/31/00	Will not be met

TPA Milestone Status

Milestone Complete in 1st Quarter FY01

- **Milestone M-34-16 "Initiate removal of K West Basin Spent Nuclear Fuel.** The Cold Vacuum Drying (CVD) Facility and Canister Storage Building (CSB) shall be ready to receive spent nuclear fuel. The spent nuclear fuel transport system shall be operable. The K West Basin spent nuclear fuel retrieval system shall begin retrieving, cleaning, and packaging spent nuclear fuel, and the first Multi-Canister Overpack (MCO) of spent nuclear fuel will be loaded and transported to the Cold Vacuum Drying Facility for processing"
  - *Status: Completed 12/7/00; one week behind schedule.*

TPA Milestone Status
(Continued)

- **Target Date M-34-06-T01 "Initiate K West spent nuclear fuel canister cleaning operations.** Canister cleaning operations consist of removal of all contents from each canister and processing of the canisters through the radioactive decontamination apparatus"
  - *Target date of 12/31/00 was not be met; TPA change request to change due date to 8/31/01 was rejected by EPA*
  - *Currently on schedule for 8/31/01*

TPA Milestone Status
(Continued)

Milestones due in next 6 months:

- **Target Date M-34-05-T01 "Submit report on quantities, character and management of K Basins Debris.** Submit DOE approved annual report on quantities, character, and management (e.g., segregation and management subsequent to removal) of K Basins debris to Ecology and EPA
  - *Scheduled for submittal 5/31/01; currently on schedule*

Significant Accomplishments

- Successfully completed Contractor Operational Readiness Review (ORR) for the Cold Vacuum Drying Facility (CVDF)
- Successfully completed DOE ORRs for K West Basin, CSB, Cask Transportation System (CTS) and for the CVDF
- Completed Phased Startup Initiative (PSI) Phase 3 "Hot Fuel Processing" in K West Basin
- Initiated PSI Phase 4 validation testing in K West Basin
- Completed first MCO shipment from K West Basin to CVDF
- Successfully completed processing of the first MCO at CVDF
- Completed movement of the first processed MCO from CVDF to CSB and placed in storage tube

Significant Accomplishments
(Continued)

- **Completed loading of the next 6 fuel baskets in anticipation of shipping the second MCO**
- **Completed installation of the CSB backdraft dampers ahead of schedule**
- **Storage Projects progress**
  - ***Received 70 MCOs as of December 2000 of the 400 required***
  - ***Fabrication complete on an additional 180 fuel baskets; 230 fuel baskets complete of the 1785 required***
  - ***Fabrication complete on 36 scrap baskets; 46 scrap baskets complete of the 375 required***

SNF Project Issues/Concerns

- FY01 budget management
- Complete BCR to address MCO production (includes AFTS)
- Resolution of oxygen sampling process issue
- Resolution of QA issues with Joseph Oat

Upcoming Activities

- Shipment of the second MCO
- Complete definite design for K East Integrated Water Treatment System (IWTS)/Sludge loadout system April 2001
- Submit Annual Debris Report May 2001

Permitting and Regulatory Issues

- Review RCRA Sludge designation process with Ecology and EPA

Non-TPA Regulatory Issues with Potential to Impact TPA Milestones

- None

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

($ in 000s)	BCWS	BCWP	ACWP	SCHEDULE VARIANCE	COST VARIANCE	BAC
EXPENSE	$31,150	$31,073	$44,617	($78)	($13,544)	$178,544
CAPITAL EQUIPMENT	268	198	377	(70)	(179)	10,737
GENERAL PLANT PROJ	59	0	(36)	(59)	36	480
LINE ITEM	0	0	(511)	0	511	0
TOTAL	$31,477	$31,270	$44,446	($206)	($13,175)	$189,761

Schedule Variance
- Within Tolerance.

Cost Variance
- Additional startup and engineering required to resolve first-of-a-kind equipment issues at K Basins and CVD and subsequent extension of the Operational Readiness Review process. A staff demobilization plan will be implemented to get costs in line with the baseline.

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

SPENT NUCLEAR FUEL PROJECT

	FY95-98	1999	2000	2001	2002	2003	2004	2005	2006
Annual BCWS	533,003	718,612	920,376	1,110,137	1,301,612	1,440,418	1,557,095	1,637,278	1,685,780
PTD BCWS	533,003	718,612	920,376	951,853					
PTD BCWP	533,003	717,915	916,093	947,363					
PTD ACWP	533,003	718,798	920,091	964,537					
% Sch	31.6%	42.6%	54.6%	56.5%	77.2%	85.4%	92.4%	97.1%	100.0%
% Cmpl	31.6%	42.6%	54.3%	56.2%					
SPI	1.00	1.00	1.00	1.00					
CPI	1.00	1.00	1.00	0.98					

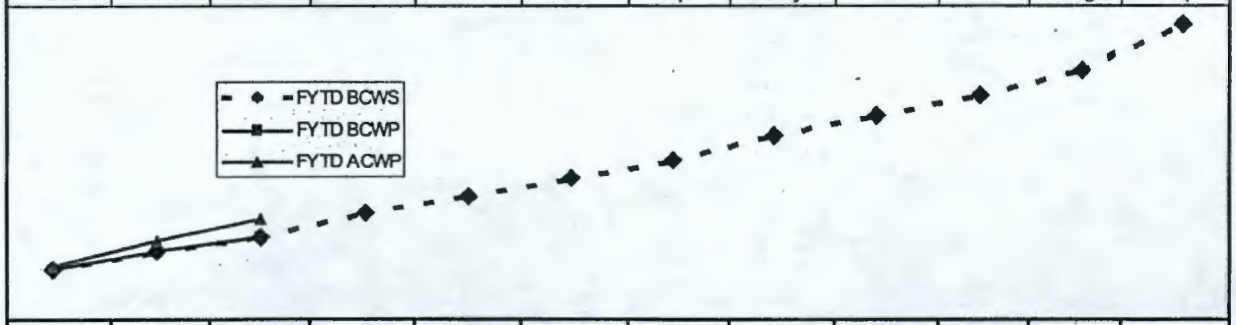
Life Cycle	
*BAC=	1,713,413
EAC=	1,713,413
CV=	0
Trend=	-

*Includes $27,633K for FY2007.

Year End	
BCWS	189,761
Forecast	189,761
Delta	(0)

Project to Date	
BCWS=	951,853
BCWP=	947,363
ACWP=	964,537
SV=	(4,489)
CV=	(17,174)

Fiscal Year 2001



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD BCWS	7,302	20,648	31,477	49,329	61,935	75,195	89,500	108,106	122,463	137,299	156,540	189,761
FYTD BCWP	7,317	20,498	31,270									
FYTD ACWP	9,805	28,227	44,446									
Sched VAR	16	(150)	(206)									
Cost VAR	(2,488)	(7,728)	(13,175)									

Hanford Spent Nuclear Fuel Project

($ IN 000'S)

EXPENSE:	BCWS	BCWP	ACWP	SCHED VAR	COST VAR	FYTD ESTIMATED ACTUALS	FYTD ESTIMATED COST VAR	BAC
			—FYTD—					
Project Management and Integration	5,020	5,019	5,385	(1)	(366)	5,385	(366)	47,595
SNFP Acceptance Inspection (AI)	158	158	98	(0)	59	98	59	683
Project Mgmt. and Integration (Project Fee)	2,143	2,143	2,472	(1)	(329)	2,472	(329)	10,305
* K Basins Maint. and Oper. (Through F.M.)	4,373	4,371	5,909	(1)	(1,538)	5,909	(1,538)	19,420
K Basin Project Support	51	13	470	(38)	(457)	470	(457)	8,497
* K Basins Facility Projects (Des/ Mod/ Const)	864	710	538	(154)	172	538	172	3,737
* Fuel Retrieval Project (Des/ Mod/ Const)	219	112	380	(108)	(268)	380	(268)	4,964
* Water Treatment (Des/ Mod/ Const)	82	65	310	(16)	(245)	310	(245)	353
Debris Removal Project (Des/ Mod/ Const)	0	0	(1)	0	1	(1)	1	0
* MCO Acquisition (Des/ Mod/ Const)	7,639	7,816	7,009	177	807	7,009	807	27,505
Cask Transportation System (Des/ Mod/ Const)	0	0	4	0	(4)	4	(4)	0
K Basin Cold Vacuum Facility (Des/ Mod/ Const)	0	0	411	0	(411)	411	(411)	0
Debris Removal Project. (During F.M.)	0	0	0	0	0	0	0	661
* SNF Relocation Common Operations	5,924	5,984	8,426	59	(2,442)	8,426	(2,442)	24,516
* K Basin CVD Facility (Operations)	1,645	1,645	7,276	(1)	(5,631)	7,276	(5,631)	7,121
Sludge Retrieval/ Removal Operations	0	0	0	0	0	0	0	0
Transition Project Management	68	68	78	(0)	(10)	78	(10)	312
* Acquire Systems for Facility Deactivation	1,164	1,009	1,386	(155)	(377)	1,386	(377)	10,825
Canister Storage Bldg. Facility (Des/ Mod/ Const)	0	0	252	0	(252)	252	(252)	0
* Canister Storage Building Operations	879	878	2,901	(0)	(2,022)	2,901	(2,022)	7,472
* Site Wide SNF (Des/ Move Fuel to 200 ISA)	921	1,082	1,315	161	(233)	1,315	(233)	4,390
Site Wide SNF (Oper/ Maint 200 ISA)	0	0	0	0	0	0	0	187
SUBTOTAL EXPENSE	31,150	31,073	44,617	(78)	(13,544)	44,617	(13,544)	178,544
CAPITAL EQUIPMENT:								
* K Basins Maint. and Oper. (Through F.M.)	0	0	1	0	(1)	1	(1)	0
* K Basins Facility Projects (Des/ Mod/ Const)	32	32	42	0	(10)	42	(10)	3,407
* Water Treatment (Des/ Mod/ Const)	227	157	364	(70)	(207)	364	(207)	7,291
* SNF Relocation Common Operations	9	9	0	(0)	9	0	9	39
Canister Storage Bldg. Facility (Des/ Mod/ Const)	0	0	(31)	0	31	(31)	31	0
SUBTOTAL CAPITAL EQUIPMENT	268	198	377	(70)	(179)	377	(179)	10,737
GENERAL PLANT PROJECTS:								
* K Basins Maint. and Oper. (Through F.M.)	0	0	0	0	0	0	0	0
* Site Wide SNF (200 ISA Des/ Const)	59	0	(36)	(59)	36	(36)	36	480
SUBTOTAL GENERAL PLANT PROJECTS	59	0	(36)	(59)	36	(36)	36	480
LINE ITEM:								
K Basin Cold Vacuum Facility (Des/ Mod/ Const)	0	0	(4)	0	4	(4)	4	0
Canister Storage Bldg. Facility (Des/ Mod/ Const)	0	0	(507)	0	507	(507)	507	0
SUBTOTAL LINE ITEM	0	0	(511)	0	511	(511)	511	0
TOTAL SNF PROJECT	31,477	31,270	44,446	(206)	(13,175)	44,446	(13,175)	189,761

** Detailed information contained in this report.*

SNF Project Financial Status thru First Quarter FY 2001

Hanford Spent Nuclear Fuel Project

Interagency Management Integration Team (IAMIT)

Pete Blair

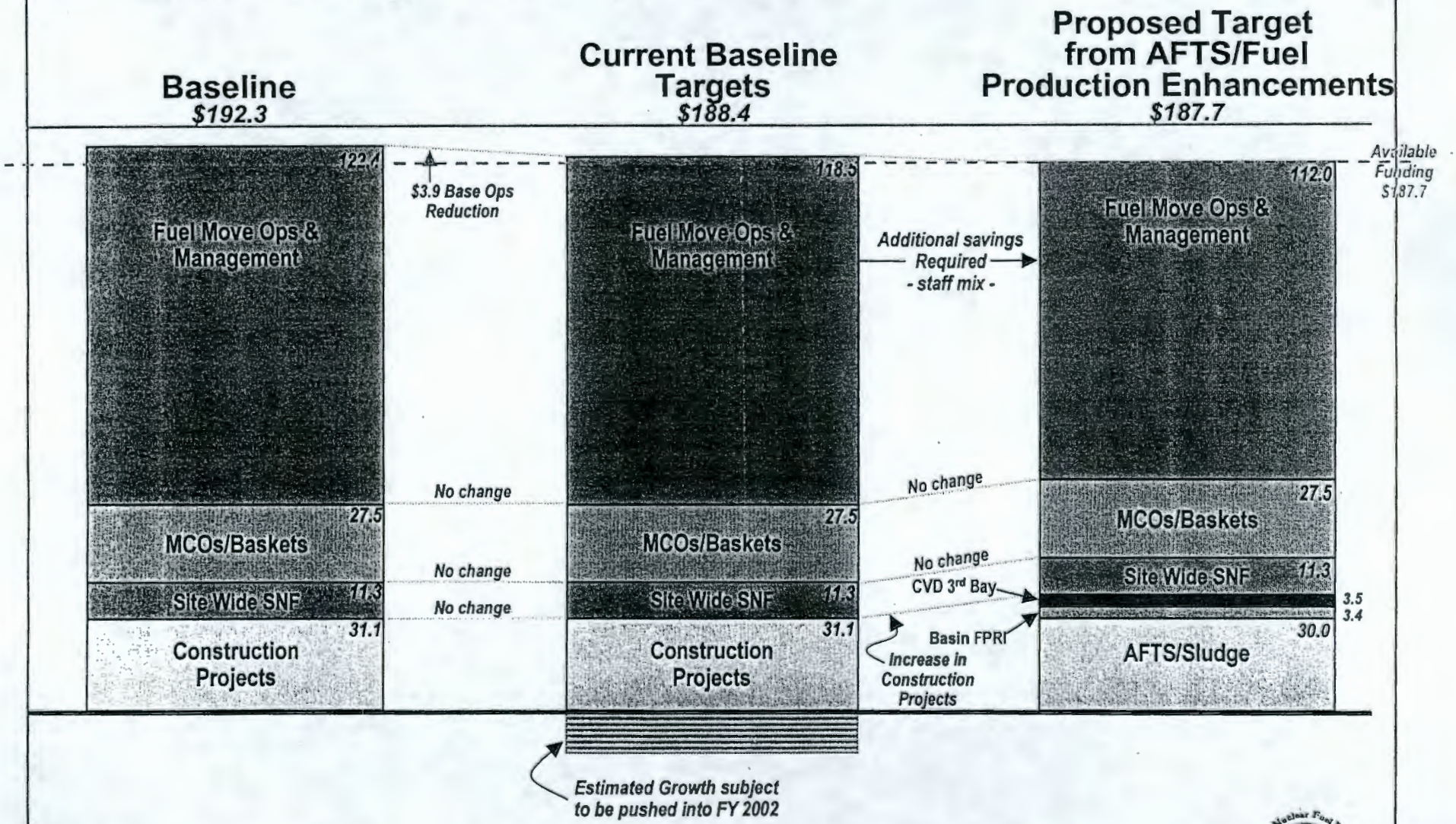
Fluor Hanford

January 23, 2001

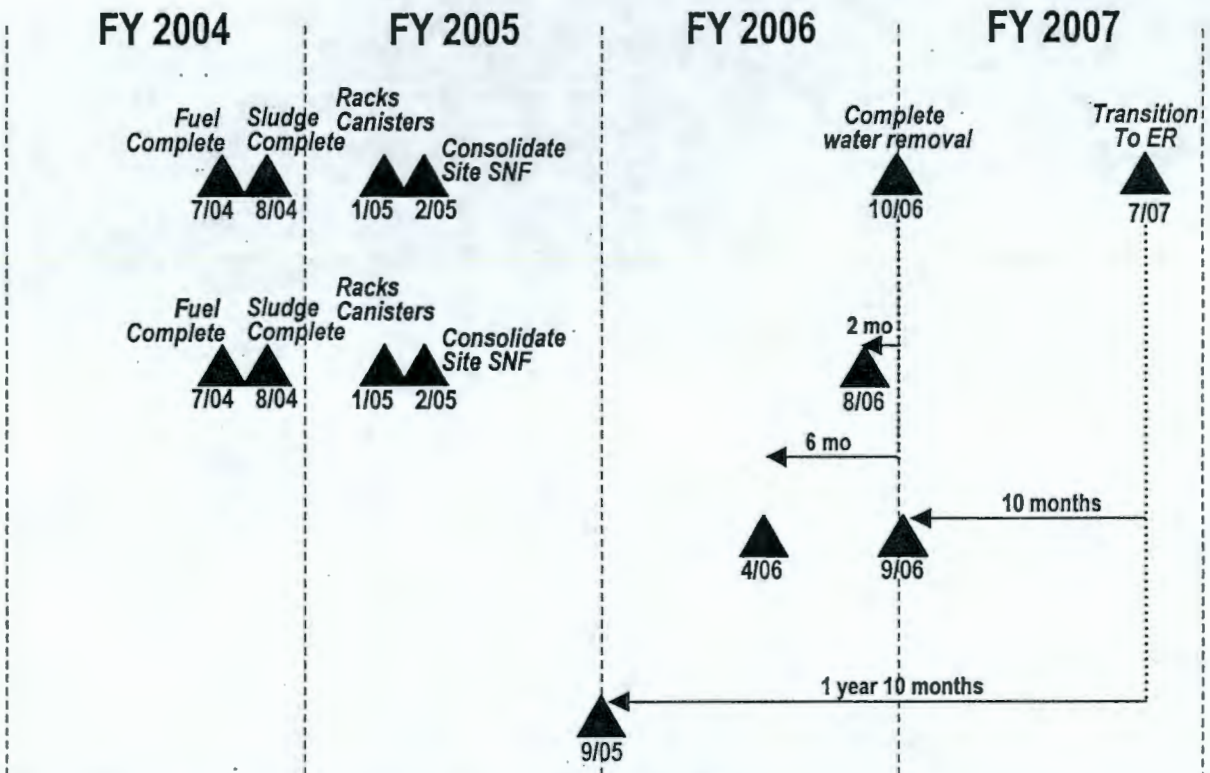
Hanford Spent Nuclear Fuel Project

SNF Project

FY2001 Budget Comparison



SNF Schedule



To Maximize Fee earning potential, SNF must initiate enhancements to improve all schedule events

Current Initiatives

- Fuel processing rate improvements — ▲ *Improves ability to meet or improve fuel removal dates*
- AFTS — ▲▲ *Improves ability to meet fuel removal dates and provides opportunity to accelerate sludge removal*
- Accelerated Closure Team (ACT) — ▲▲ ▲▲ ▲ ▲

Specifics to be determined

Hanford Spent Nuclear Fuel Project

Interagency Management Integration Team (IAMIT)

Jim Crocker

Fluor Hanford

January 23, 2001

Our Vision:
K East Basin to K West Basin Fuel Transfer

Moving fuel from K East (KE) Basin to K West (KW) Basin and using the KW Fuel Removal System (FRS) to remove fuel from the K Basins will <u>significantly reduce</u>:

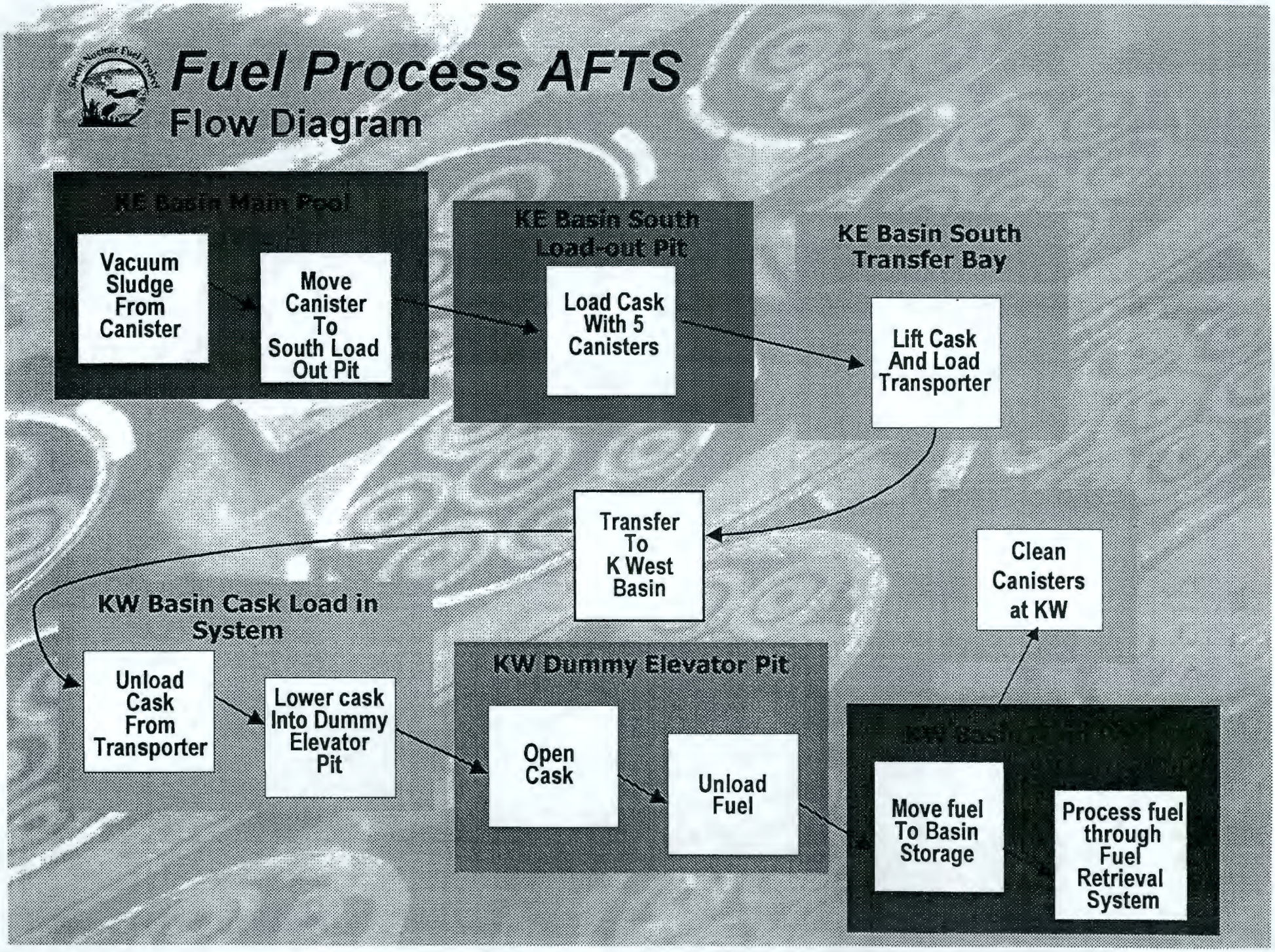
- ***worker exposure (radiological and personnel safety),***
- ***environmental risk, and***
- ***the amount of construction at KE***

This will result in:

- **increased efficiency,**
- **earlier removal of K East Basin fuel and sludge, and**
- **increased confidence in meeting cost and schedule commitments**

Fuel Process AFTS

Flow Diagram



Spent Nuclear Fuel

- **Engineering Study Report (November 2000)**
  - *No insurmountable challenges identified*
  - *Recommendation to proceed*
- **System optimization activities underway**
  - *Cask design simplification*
  - *Cask schedule acceleration*
- **Accelerate K East Basin fuel removal**
  - *Start*
  - *Finish*

Sludge

- **System optimization activities underway**
  - *Sludge to be containerized in K East Basin*
  - *Use of off-the-shelf equipment*

- **Accelerate K East Basin sludge removal**
  - *Start*
  - *Finish*

Construction Activities

Construction activity eliminated or reduced for K East Basin

- Fuel Retrieval System
- Cask Transportation Facility Modifications / crane upgrades
- Integrated Water Treatment System

New construction activities required

- New casks and transport vehicle
- K West Basin receiving area upgrades
- Transport cask decontamination equipment
- Sludge storage containers and equipment

Baseline Change Request Update

- Originally specific to AFTS; now incorporates other improvement initiatives
- Decision/approval from DOE required in near term

Fuel Processing Rate Improvement Initiatives

Presented January 23, 2001 to :

Inter-Agency Management Integration Team (IAMIT)

Commitment

- Fluor remains committed to meeting the TPA Milestones for the Spent Nuclear Fuel Project.
- Fluor is committed to completing the SNF Project without diverting funds from other projects that would hamper other site cleanup efforts.
- Experience we have gained operating this prototype system for fuel retrieval has lead to the development of some necessary improvements to increase system efficiency.

SNF Project Wide Initiatives

- Implement a maintenance outage program targeted at minimizing equipment down time by stressing preventive rather than corrective maintenance by March 1, 2001.
- Improve radiological control implementation to be more efficient and more consistent with the hazard by March 1, 2001.
- Improve implementation of fuel security requirements to be more consistent with the threat and operational needs March 1, 2001.
- Improve implementation of accountability procedures to be more consistent with the threat and operational needs March 1, 2001.
- Conduct time/motion/procedure efficiency studies and eliminate inefficiencies by July 31, 2001.

105K West Basin Initiatives

- Obtain and train sufficient personnel to support PQ shift operations by February 28, 2001.
- Train Lead Operators to direct activities allowing multiple activities to be conducted in parallel by February 28, 2001.
- Commence PQ shift operations by March 5, 2001.
- Obtain required Notice of Construction change approvals by March 1, 2001.
- Develop and approve a Criticality Safety Evaluation change to allow multiple container movements simultaneously by May 31, 2001.
- Develop and obtain a unique FTC and stiffback for use by CLS/MLS by May 31, 2001.

105K West Basin Initiatives (Continued)

- Develop and obtain Secondary Process Table (Manual) and all supporting equipment by June 1, 2001.
- Develop and approve a SAR change that allows installation and operation of the additional equipment by June 30, 2001.
- Develop and complete testing/certification of a new loading tool for the main and secondary process tables by June 30, 2001. Install a Secondary Process Table (Manual) and all supporting equipment during July 2001 maintenance outage.
- Implement the Criticality Safety Evaluation change to allow multiple container movements simultaneously by the end of the July 2001 maintenance outage.
- Install the unique FTC and stiffback for use by CLS/MLS during the July 2001 maintenance outage.

105K West Basin Initiatives (Continued)

- Implement the SAR change that allows installation and operation of the additional equipment by the end of the July 2001 maintenance outage.
- Implement the new loading tool for the main and secondary process tables and certify it for use during the July 2001 maintenance outage.
- Conduct time/motion/procedure efficiency studies and eliminate inefficiencies by July 31, 2001.
- Obtain and train sufficient personnel to support 24/7 operations by July 31, 2001.
- Commence 24/7 operations by August 1, 2001.

CVDF Initiatives

- Conduct time/motion/procedure efficiency studies and correct inefficiencies noted by July 31, 2001.
- Obtain and train personnel to support simultaneous three-bay operations by September 30, 2001.
- Complete the installation of the third process bay by September 30, 2001.
- Complete testing and certification of third process bay by October 31, 2001.
- Evaluate processing times and implement necessary improvements by July 31, 2001. After improvements are implemented, if processing times for MCOs exceed 5 days for processing and 1 day for bay preparation to receive the next MCO, a fourth bay will be required.

CSB Initiatives

- Obtain and train sufficient CSB personnel to support 24/7 MCO turnaround activities in parallel with processing MCOs by July 31, 2001.
- Install lighting in the vicinity of CSB to allow for night shipments of MCOs by July 31, 2001.
- Procure and take receipt of three additional MCO trailers and casks by September 30, 2001.
- Certify three new MCO trailers and casks by October 31, 2001.
- Obtain and train sufficient CSB personnel to support 24/7 MCO processing operations by October 31, 2001.
- Obtain and train sufficient Cask Transportation System personnel to support 24/7 operations by October 31, 2001.

105K East Initiatives

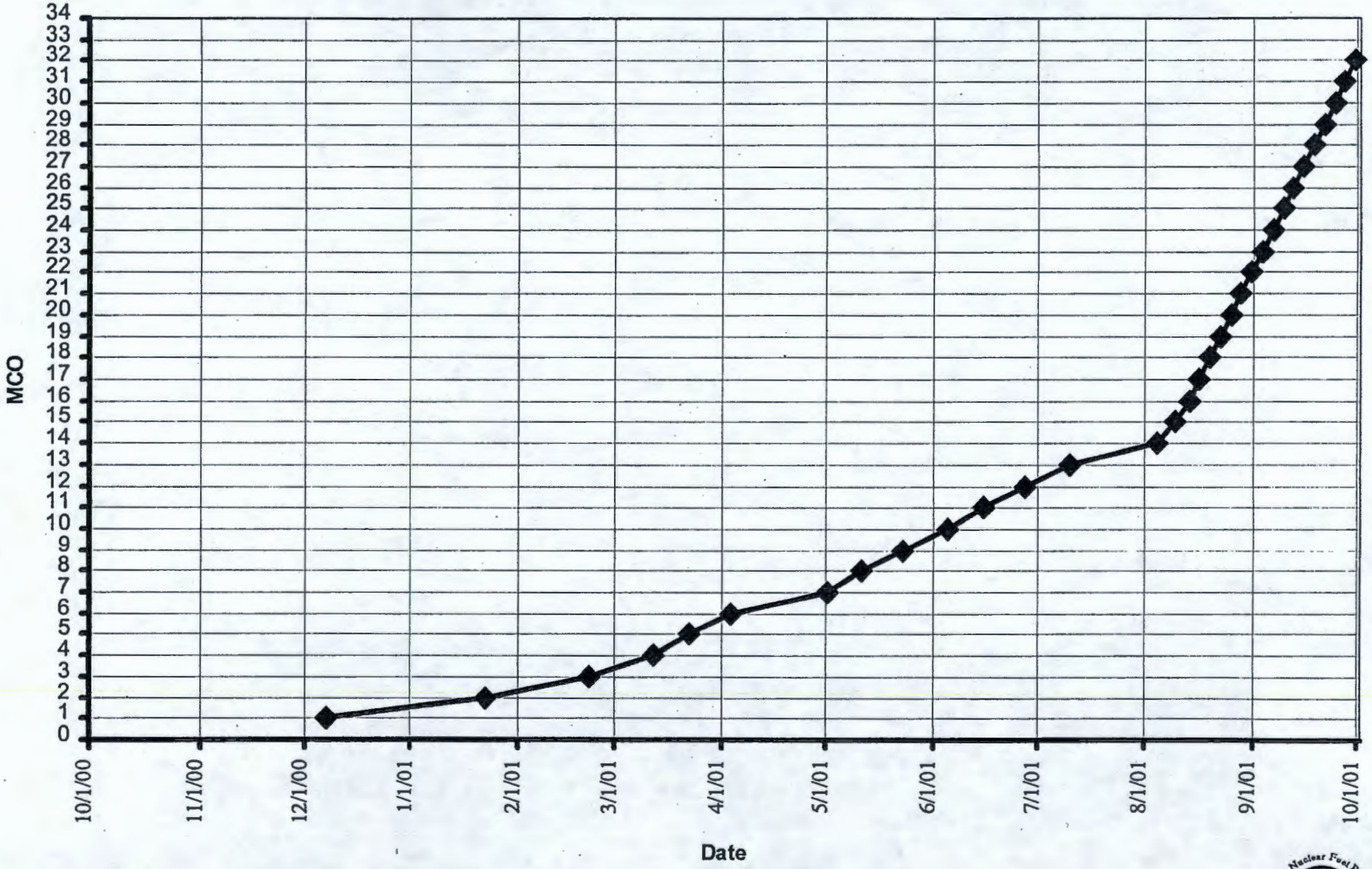
- Start design and construction for Alternate Fuel Transfer Strategy by February 2001.
- Commence fuel movement from 105K East to 105 K West by December 2001.
- Complete fuel movement from 105K East to 105K West by July 2003.
- Complete sludge removal from 105K East by January 2004.

Expected Results

- Milestone to have all K West Fuel removed by December 31, 2002 can be met by approximately December 23, 2002.
- Milestone to have all SNF fuel processed by July 31, 2004 can be met by approximately May 16, 2004.
- Milestone to have all fuel removed from 105K East can be accelerated from July 2004 to July 2003 (one year early).
- Milestone to have sludge removed from 105K East can be accelerated from August 31, 2004 to January 2004.
- 32 MCOs can be loaded and shipped from 105K West in FY 2001.
- Fuel processing rate can be increased from the current 54 MCOs per year to approximately 150 MCOs per year by October 31, 2001.

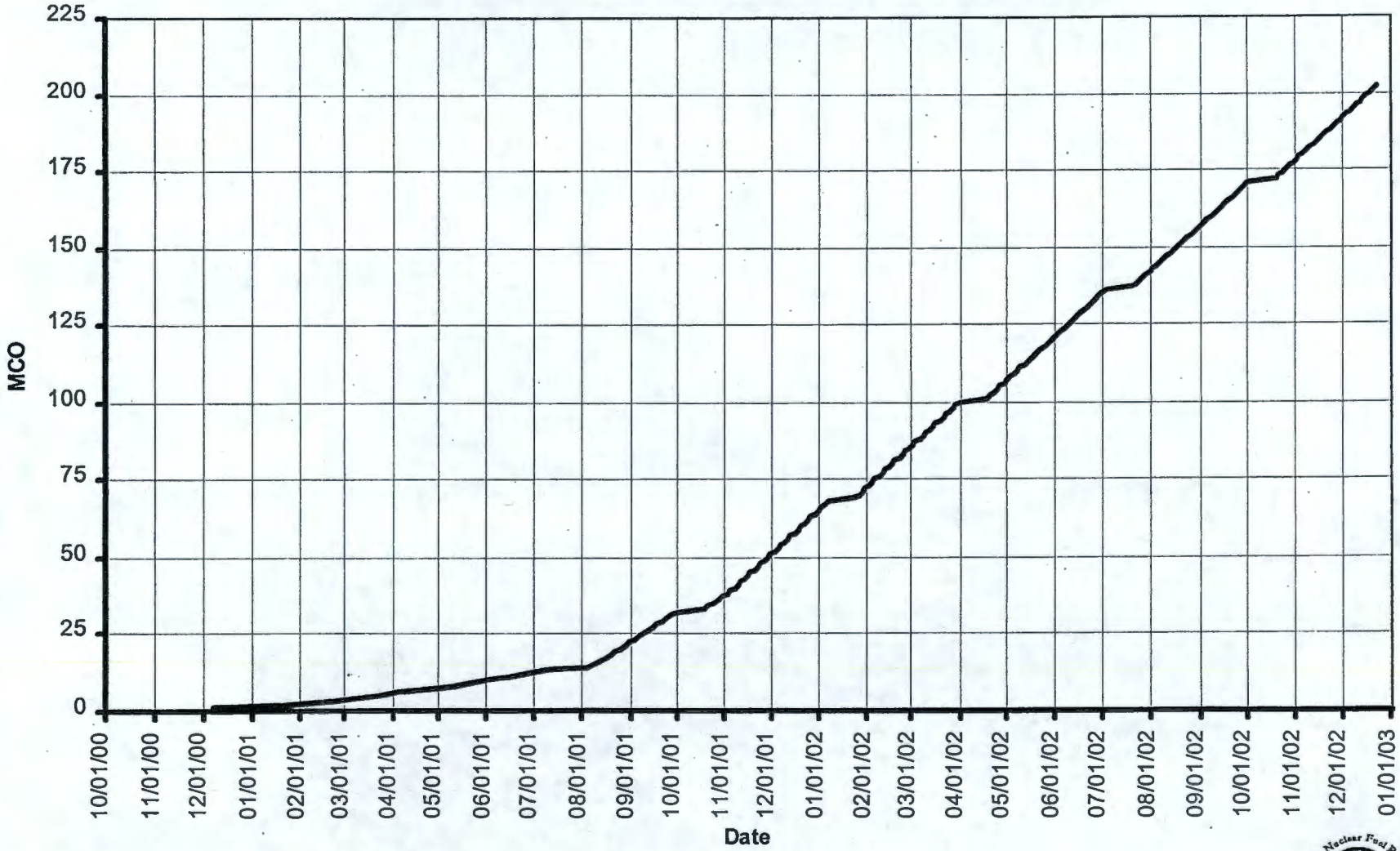
Hanford Spent Nuclear Fuel Project

FY 2001 MCO Production with Staffing and Equipment Upgrades Acquired (SCENARIO 1)



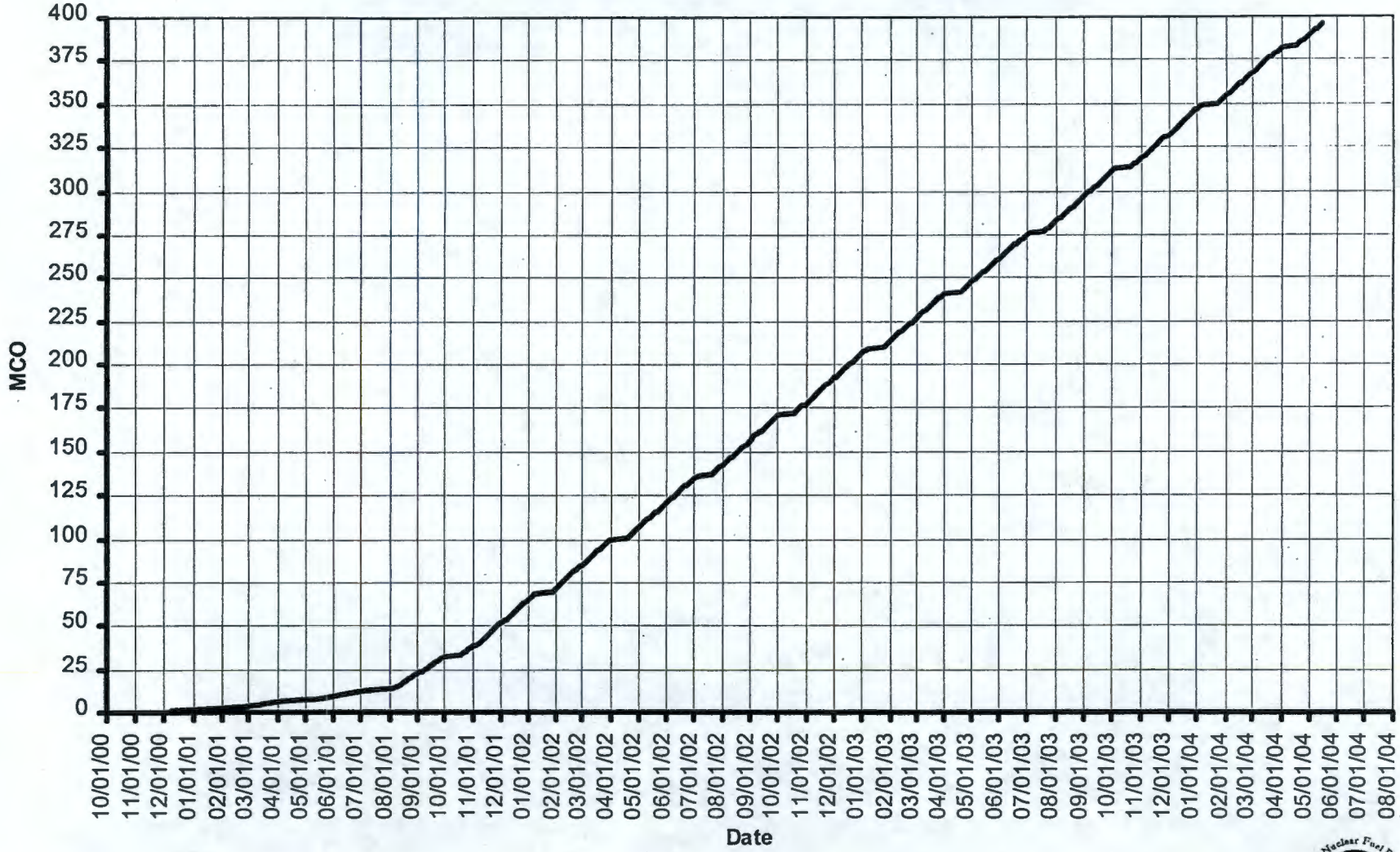
Hanford Spent Nuclear Fuel Project

K West Fuel Movement End Date for Staffing and Equipment Upgrades Obtained on Schedule (SCENARIO 1)



Hanford Spent Nuclear Fuel Project

End Date for All Fuel Movement for Staffing Increases and Equipment Upgrades Acquired On Schedule (SCENARIO 1)



M-20 Milestone Status
Permits and Closure Plans

Presented by

Ellen Mattlin
DOE, Richland Operations Office

January 23, 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

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:

This milestone due date is declared "IN ABEYANCE" by change request M-81-98-01, which was approved August 24, 1999.

A potential use for the sodium as feedstock in the TWRS program has been identified and will be evaluated as discussed pursuant to M-81-02-T01. the sodium will be stored as product material in the sodium storage facility until the final disposition of the material is determined. FFTF is proceeding on the basis of providing RCRA and WAC 173-303 compliant storage for the sodium. The sodium reaction facility is included in the permit request, even though the sodium reaction facility availability and regulatory status will be determined by the 1998 evaluation/decision point. If the sodium use for the TWRS is confirmed, a request for procedural closure as defined in Section 6.3.3 of the TPA will be submitted for the sodium storage facility and sodium reaction facility units. If the sodium is determined to be a waste, a closure plan will be submitted for the two units.

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-A-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:

Development of these closure plans is not scheduled to begin until Fiscal Year 2002. In the meantime, DOE (Bryan Foley), Ecology (John Price), and the EPA (Doug Sherwood) are discussing a change to the priorities in the 200 Area. The recommended focus would shift to clean-up activities for the highest risk operable units and those that are considered representative of the 200 Area's nine major waste groupings. This new focus was presented to the ER HAB on 1/9/2000.

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 T Plant Part A, Form 3, to Ecology on 1/22/2001.
- Permit Condition II.Y. for corrective action has been resolved between DOE, Ecology, and the EPA. Ecology is scheduled to reopen the public comment/review on 2/15/2001.

Planned Actions (next 6 months)

- Ecology issue NOD comments for T Plant Complex Part B permit application (holding workshops to resolve issues resulting from Ecology's review of the Part B permit application).
- DOE submit to Ecology responses for the Mixed Waste Disposal Units (MWDUs) Chapter 1 NOD comments.
- Ecology issue remaining NOD comments to the MWDUs Part B permit application.
- DOE and Ecology to resolve Ecology's rejection of Class 1 modifications pertaining to training chapters for final status units.
- DOE submit to Ecology responses to waste treatment plant, and schedule workshops to resolve NOD comments.

EXTENSION OF DISPUTE RESOLUTION TO APRIL 23, 2001, TO RESPOND TO HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER CHANGE REQUEST M-91-00-04 (FOR M-091-03) AND CHANGE REQUEST M-91-00-03 (FOR M-091-01)

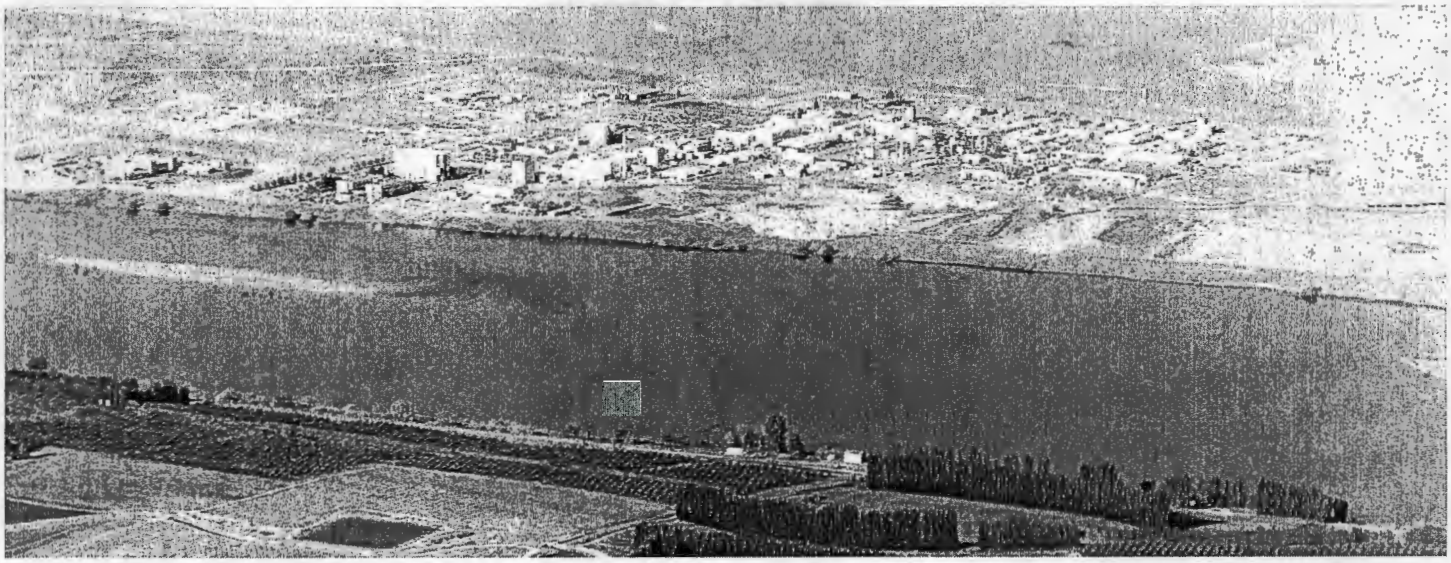
An extension to April 23, 2001, is agreed to by the parties in order to continue dispute resolution discussions at the Project Manager level on the Hanford Federal Facility Agreement and Consent Order Change Request M-91-00-04 for M-091-03 " Transuranic (TRU)/Transuranic Mixed (TRUM) Project Management Plan (PMP)."

Furthermore, the related due date for Hanford Federal Facility Agreement and Consent Order Change Request M-91-00-03 for M-091-01, "Complete acquisition of facilities for storage, treatment and disposal of post 1970 TRU/TRUM," is hereby extended to April 2001, to allow for completion of the TRU/TRUM PMP dispute resolution.

Michael A. Wilson
Manager, Nuclear Waste Programs
State of Washington
Department of Ecology

W. Wade Ballard, Assistant Manager
for Planning and Integration
U.S. Department of Energy
Richland Operations Office

cc: L. Cusack, Ecology
F. Jamison, Ecology
R. Stanley, Ecology
D. Sherwood, EPA
D. McKenney, FHI
R. Piippo, FHI
Administrative Record



324 Facility Stabilization

Milestone
TPA-M-89

RIVER CORRIDOR PROJECT

IAMIT Meeting January 23, 2001
Tri-Party Agreement
Milestone Status Report

Ecology Program Manager – IFW 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 (Completion expected by 7/31/01)

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 – Marginal**
  - The first quarter FY 2001 FYTD variance is negative $800K

Program Manager's Assessment

(Cont'd)

since last quarterly review

- **Schedule – Marginal**

General

- RL management decided to focus attention on meeting the M-89-02 milestone work scope in a timely manner rather than request a schedule extension for M-89-02.
- The 324 Building is actively shipping M-89-02 waste material from B-Cell to meet March 30, 2001 for removal of mixed waste and July 31, 2001 for subsequent removal of non-mixed waste.
- RL, FH, and Ecology are working to determine how best to approach closing M-89-02.

Mixed Waste (MW) Activities

- A higher than anticipated dose from a loaded Steel Waste Disposal Box (SWDB) is having an impact on the ability of the Central Waste Complex (CWC) to accept the package;

  RL and FH are resolving this issue.

Supporting Activities

- Completed repairs and the annual periodic maintenance on the 30-Ton crane in December 2000. Returned the crane to service on January 5, 2001. FH is actively striving to improve crane availability.

Significant Accomplishments

since last quarterly review

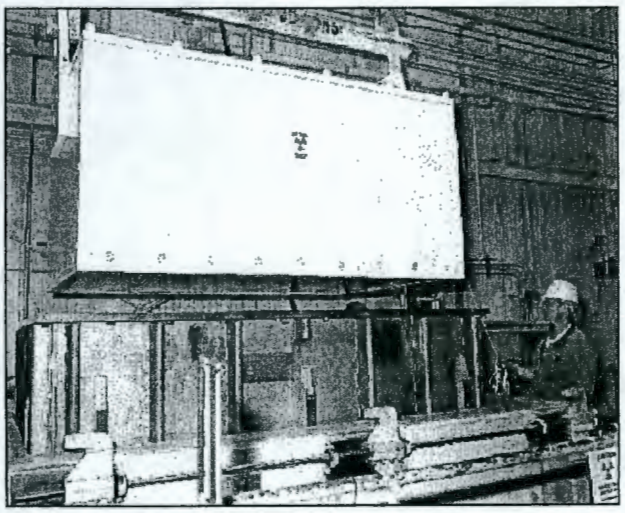
M-89-02

General

- RL management decided to focus attention on meeting the M-89-02 milestone work scope in a timely manner rather than request a schedule extension for M-89-02.
- Completed discussion with Ecology and reached agreement on schedule to complete M-89-02.
- Completed a workshop November 29, 2000 where FH, RL, and Ecology reached consensus on the final M-89-02 Completion Checklist for providing status and for closing M-89-02.
- Secured $14M project funding for continued FY 2001 operations.

Mixed Waste (MW) Removal Activities

- Completed 5 of 14 mixed waste SWDB shipments to CWC as of January 20, 2001.
- Established approach to verify final collection (vacuuming) of B-Cell mixed waste dispersibles.



Significant Accomplishments (cont'd)

since last quarterly review

Non-Mixed Waste Removal Activities

- Removed and size-reduced the Glass Canister Storage Rack.

Key Maintenance Activities/Others

- Performed repairs to the 30-Ton crane superstructure, completed annual crane preventive maintenance, and returned the crane to service. A crane rail wear monitoring program has also been established.

Issues

Issues

- Critical path schedule to complete M-89-02 has no contingency to accommodate significant program delays.

  Status

  - RL provides Ecology weekly schedule status.

- Several B-Cell mixed waste containers are projected to have unexpectedly high dose rate readings (exceeding 1000 millirem/hour) from hot spots on the bottom of the SWDB container; the projected dose readings are high enough to cause delays in shipping.

  Status

  - A change to the CWC Interim Safety Basis (ISB) may resolve CWC acceptance concerns; completion is scheduled 1/24/01.

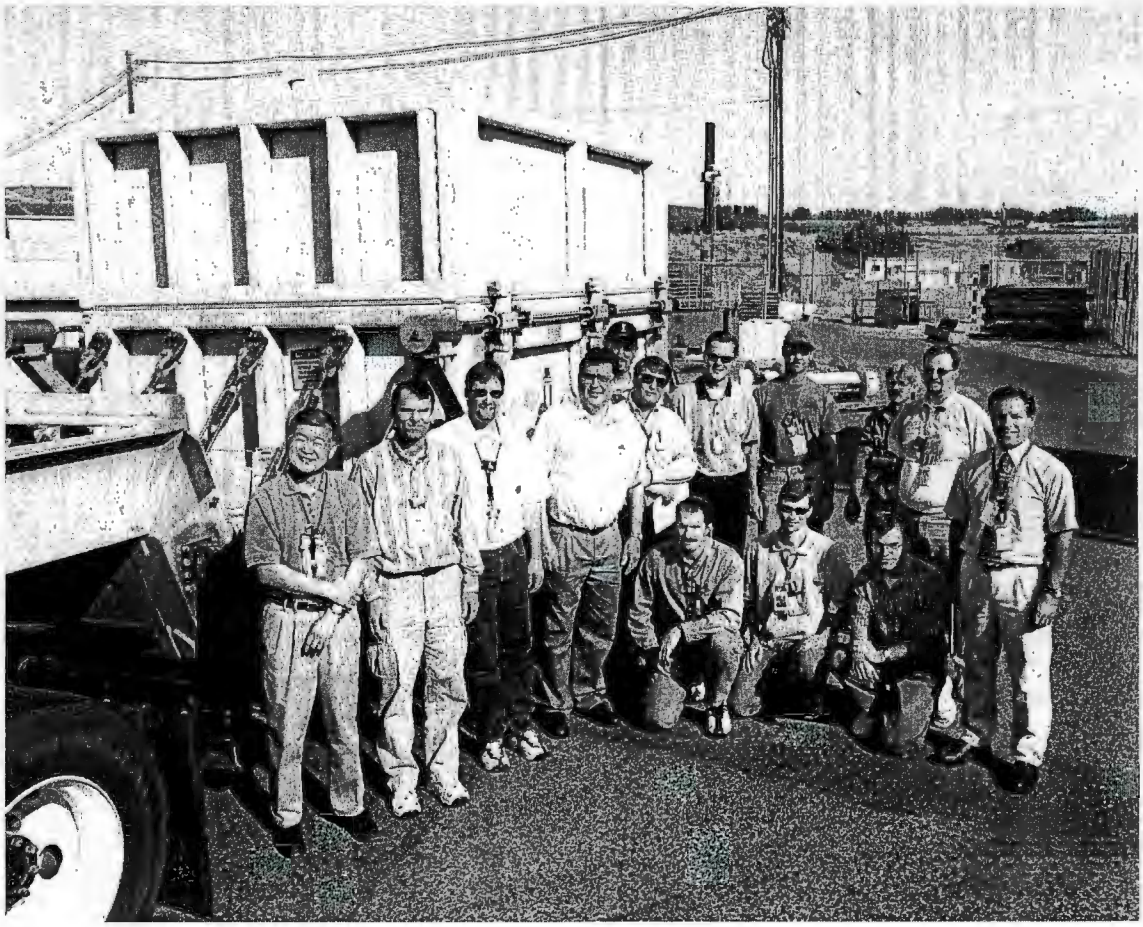
Significant Planned Actions

next three months

- **M-89-02**
  - Resolve the SWDB hot spot issue
  - Collect mixed waste dispersibles from the B-Cell floor by vacuuming using the Dispersible Removal System
  - Complete shipping B-Cell mixed waste to CWC
  - Resume shipping B-Cell non-mixed waste to West 200 Area

Project Summary

- Work continues collecting, packaging and shipping M-89-02 waste to the 200 Area. Adjustments in critical path schedule logic are being made to assure M-89-02 mixed waste shipments are completed by March 30, 2001, and non-mixed waste shipments are completed by July 31, 2001.

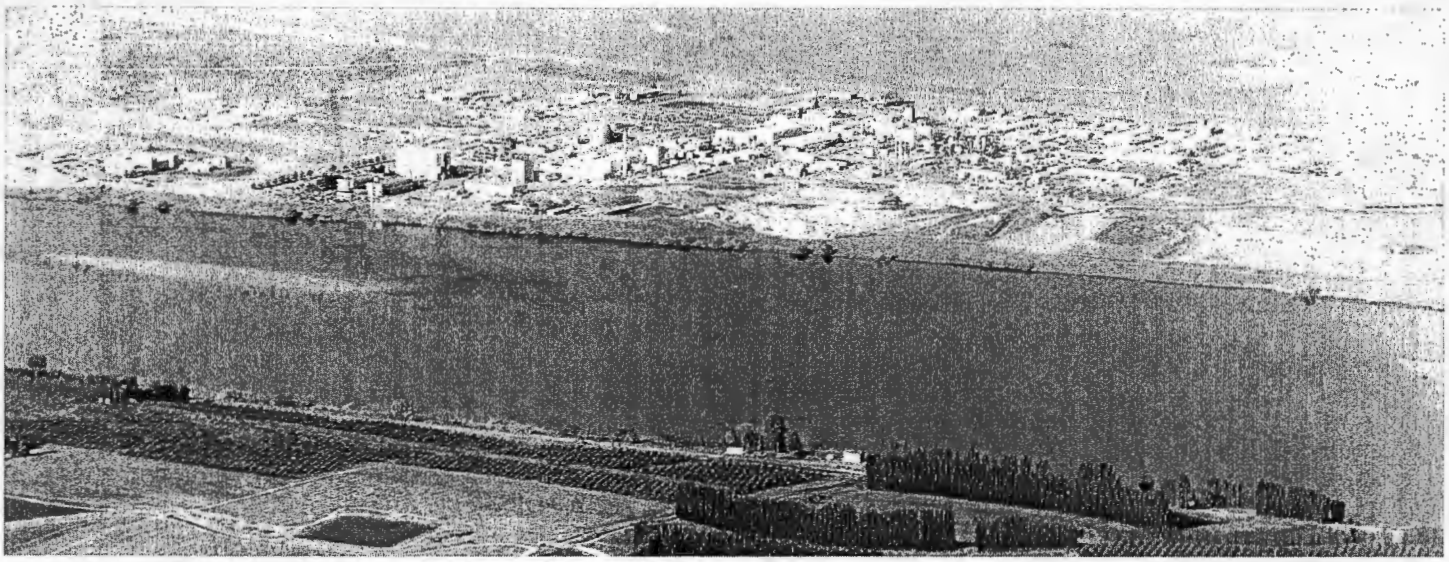


324 BUILDING B-CELL MILESTONE M-89-02 WASTE SUMMARY

Steps	(1) Dispersibles		(2) Excess Equipment		(3) Debris	
	MW	Non-MW	MW	Non-MW	MW	Non-MW
Collect waste	X	-	-	-	X	X
Containerize	X	-	X	X	X	X
Remove/Stage	X	-	X	X	X	X
Ship containers	X	-	X	X	X	X

324 BUILDING B-CELL MILESTONE M-89-02 WASTE SUMMARY

Steps	(1) Dispersibles		(2) Excess Equipment		(3) Debris	
	MW	Non-MW	MW	Non-MW	MW	Non-MW
Collect waste	X	-	-	-	X	X
Containerize	X	-	X	X	X	X
Remove/Stage	X	-	X	X	X	X
Ship containers	X	-	X	X	X	X



Nuclear Materials and Facility Stabilization

Milestone

TPA-M-92

RIVER CORRIDOR PROJECT

IAMIT Meeting January 23, 2001
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	No longer applicable
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 UU. Complete the disposal/or disposition of ~5 metric tons of UO2 source materials located in the 300 Area Fuel 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/or 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 materials 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 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
MX-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 – Good**
  - M-92-01: Capsules dispositioned as feedstock for vitrification plant during Phase II operations
  - MX-92-06-T01, and T02: On schedule
  - MX-92-11-T01: No work has been scheduled or funded in this quarter. The target date of March 2002 will not be met for disposition of all non-radioactive sodium

MX-92-06-T01 and -T02

Significant Accomplishments – since last Quarterly review

- 667 MTU's of Uranium Trioxide Powder were successfully transferred to the DOE Portsmouth site in Ohio

Significant Planned Actions – next three months

- Expect to ship 5 MTU's of UO2 by 3/31/01
- Expect to ship 235 MTU's uranium billets by 3/31/01

Issues

- The current approved SARP allows transporting only three wooden billet boxes to a truck and the need is to allow for five boxes to a truck. Waiting for HQ/EM-5 approval of the SARP to allow the increased amount of boxes per shipment.
- The Red Box SARP to relocate uranium fuel materials to the 200 Area burial requires updating by 3/31/01 to allow for burying the contaminated fuel by 6/30/01

Significant Planned Actions

next three months

- **MX-92-11-T01**
  - Resume deactivation activities on the 337B sodium system
  - Begin planning and procedure development for removing insulation and electrical trace heat from system piping
  - Resume procedure development for internal inspection of the Composite Reactor Component Test Activity (CRCTA) tank to verify historically assumed sodium inventory
- **M-92-13**
  - Ecology comments are being incorporated and a revised document is being prepared for transmittal to Ecology
- **M-92-14**
  - Waiting for Ecology Concurrence
- **M-92-15 and 16**
  - The 324 Building is actively shipping SCW items (e.g., metal filters)
  - Continue to perform characterization of the 340 Vault tanks to obtain more feasible alternatives for the tank heel removal

Project Summary

- M-92-05: Milestone probably needs to be re-negotiated
- MX-92-06-T01 and T02 (non-enforceable): On schedule
- M-92-13: Under revision
- M-92-14: Complete
- M-92-15, -16: On schedule

Nuclear Material Stabilization Project

Plutonium Finishing Plant Stabilization Project

Milestone

TPA-M-83

IAMIT Meeting January 23, 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

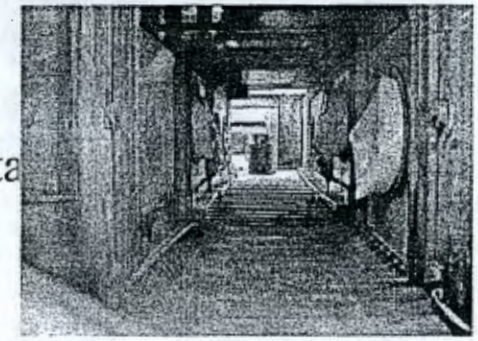
Nuclear Material Stabilization Project

TPA Negotiations

- **TPA change package M-83-00-01 signed 9-1-00.**
  - Established 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 –
    - FH is behind baseline schedule and cost overruns expected
    - FH is working to schedule recovery plan which meets milestone.
  - 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, and complete a TPA CR by 4/1/01
    - Began Hanford Ash Negotiations on 10/25/00
    - Ahead of schedule to complete TPA CR by 4/1/01
  - Agreement to begin PFP TPA Transition Negotiations by June 1, 2001 – On schedule
- **Assessment for transition completed by Ecology**
  - RL responded to assessment in November
- **Technical discussions and Project Manager Meetings are occurring monthly**

Nuclear Material Stabilization Project

Thermal Stabilization (Pu Oxides, Metals, Alloys)



Major Accomplishments

- As of January 12, 83 metals, and over 700 oxides have been sta
- Thermal Stabilization continued to support solutions stabilization via thermal processing of the magnesium hydroxide precipitate
- Started using the Supercritical Fluids Extraction equipment for moisture measurement in October
- Established a plan of action for the disposition of Pu Alloys

Planned Accomplishments

- Complete metals via brushing and thermal stabilization and place into inner 3013 container by March 2001
- Continue to support Solutions stabilization by thermal stabilization of the $Mg(OH)_2$ precipitate
- Start and complete stabilizing alloys that will be placed in a 3013 container
- Start polycube stabilization in May (depends on solutions processing and furnace availability)

Nuclear Material Stabilization Project

Residues Stabilization

Major Accomplishments

- Repackaged 122 bulk kg (of 310 total) of Rocky Flats ash as of January 12
- Qualification of Segmented Gamma Scanner Assay System (SGSAS) for cans of Rocky Flats ash containing up to 142 grams (previously 88g)
- Completed 3 shipments of pipe overpack containers to CWC (total 28 shipped)
- Completed a recovery plan for repackaging of Rocky Flats Ash
- Started second shift on January 8.

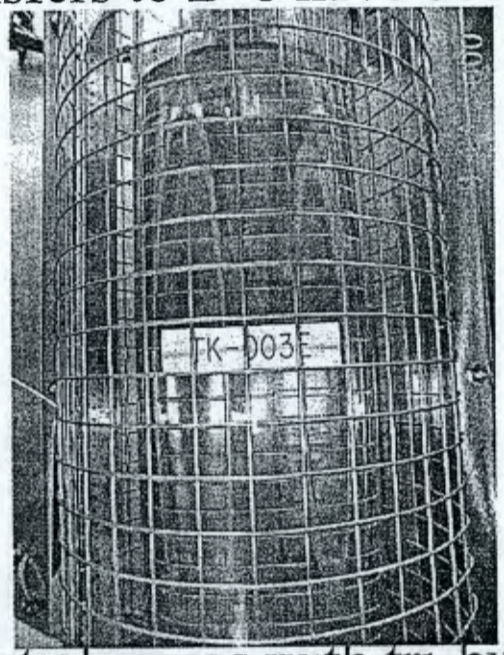
Planned Accomplishments

- Complete repackaging and shipment of Rocky Flats Ash to CWC.(310 kg bulk)
- Update SARP to add alloys and Hanford Ash
- Complete characterization/designation and TPA CR for Hanford Ash
- Complete feed shift review for Hanford ash and/or alloys
- Initiate repackaging activities on Hanford ash and/or alloys

Nuclear Material Stabilization Project
Plutonium Bearing Solutions Stabilization

Major Accomplishments

- 250 of the 4300 liters stabilized as of January 12
- For filtrate: 241-Z is on-line, and eight transfers to D-8 have been made.
- Furnaces being used to stabilize solutions
- Process improvements are being implemented to increase throughput



Planned Accomplishments

- Continue processing solutions
- Complete FSAR addendum to include potential issues with tri-butyl phosphates
- Utilize W-460 and HC-21C furnaces

Plutonium Finishing Plant

IAMIT : AMH : clb

Nuclear Material Stabilization Project
W-460

Major Accomplishments

- 65 metal items packaged in inner 3013 containers as of January 12
- Procured stabilization and packaging equipment gloveboxes and components

Planned Accomplishments

- Complete design review for vault modification
- Approve vault design and begin modification of vault to safely store the 3013 packages
- Receive Outer Can Welder in March 2001
- Hot start of Outer Can Welder by April 2001

Nuclear Material Stabilization Project
Issues

- **291-Z-1 Sample Probe**
  - Conducted successful aerosol test on January 12
- **Completing Repackaging of Rocky Flats Ash, and Shipment to CWC by April 30**