

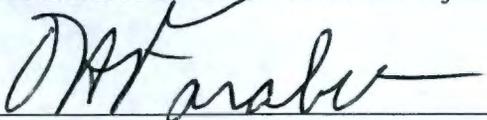
FFTF Project Managers Meeting
Federal Building
Richland, Washington

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March 22, 2006

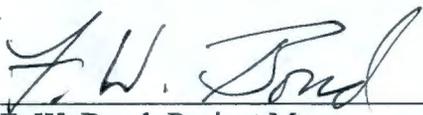
MEETING MINUTES TRANSMITTAL

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above-dated Project Managers Meeting.



O. A. Farabee, FFTF Project Manager
DOE-RL

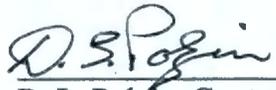
Date: 5/17/06



F. W. Bond, Project Manager
Washington State Department of Ecology

Date: 5/17/06

FFTF, Fluor Hanford Concurrence:



D. L. Polzin, Contractor Representative
Fluor Hanford

Date: 5-17-06

Purpose: Project Managers Meeting

Attachment 1: Agenda, Action Tracking List, and Summary of Discussions

Attachment 2: List of Attendees

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Attachment 1

Agenda, Action Tracking List, and Summary of Discussions

1. Administrative Issues

- Next PMM will be held on May 17, 2006.
- The minutes from the January 17, 2006, PMM were approved.
- The Action Tracking List was reviewed and an action for RL to discuss the project's new path per the budget is documented below.

2. FFTF Project Status Schedule/Budget Overview

Rod Almquist provided an overview of FFTF deactivation.

Ecology was presented the project's budget prior to the PMM. Rick Bond posed a question on the amount of savings that would be achieved due to placing the FFTF in long term surveillance and maintenance. Rod's response was that it was a fiscal year reduction and was not a savings, in fact it was a significant life cycle cost increase for the project (due to the longer time frame to complete the project if it is delayed several years and the loss of institutional knowledge).

The project's FY 08 budget Key Planned Accomplishments are as follows,

Complete the deactivation and initiate long term surveillance and maintenance (S&M)

- Bulk sodium will remain in the sodium storage facility
- Sodium residuals will remain throughout the plants sodium systems
- Fuel handling equipment will be transferred to the canister storage building

A request is being made for proposed over-target funding to,

- Prepare and transport the final 11 sodium bonded fuel assemblies/pin containers to Idaho
- Conduct small scale sodium residual removal activities

Rick asked how long it would take and how much would it cost to remove the remaining sodium residuals. Rod responded, at previous funding level (\$46M), the project is looking at about 5-6 years at ~\$12 million per year for a total of \$50 - \$70 million. Once you remove the remaining sodium residuals, the long term S&M costs are reduced significantly as the hazards have been reduced.

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Dave Polzin stated we had heard from FERMI that if the removal of sodium residuals is delayed for some time, it would cost 3-5 times the original estimate, which drives the life cycle cost of the project up considerably. Also, have to add the cost of keeping up the facility if the sodium residuals are not removed. The risk of hiring new staff unfamiliar with the facility will have an impact on safety as well as cost.

The project is conducting planning with the objective of sending the sodium bonded fuels to Idaho for storage and ultimate disposition. Once the reactor fuel is removed, bulk sodium is drained, and unneeded auxiliary systems are deactivated, the project would go to a minimum staffing crew and reduced cost of ~\$10 million a year.

Rod stated that the project is pushing hard to acquire the additional funding (over-target request) for FY 2008 and beyond to proceed with removing the sodium residuals. Continuity with sodium residual work will enable the project to retain sodium experts and system expertise.

A question was raised about the FFTF funding. Rod responded that once Congress appropriates the funding, it is specific to FFTF. However, for the out-years, Hanford is given a target ceiling and DOE can set the priority.

If the project does not acquire the T3 Cask SARP approval, it will cause a two-year delay. If the reactor fuel is shipped out to CSB and placed in storage for an extended time, events could occur that result in losing the window to process the fuel at Idaho.

Rick inquired as to how much sodium bonded fuel is currently residing in FFTF. Rod stated there are a total of 1240 pins; 6 full assemblies (5 irradiated and 1 unirradiated), 87 unirradiated pins, and 139 irradiated pins. There would be ~11 shipments, depending on the pin loading.

There is a chance they will hold back the unirradiated sodium bonded fuel and process them at PFP. The fuel is in IDS, TACS, and the IEM cell.

Rick inquired if there are enough casks to ship the fuels. Rod responded that the T-3 cask would be used if the fuel is transferred to Idaho. If they go to the Canister Storage Building, the fuel assemblies/ID-69 pin containers will be loaded into interim storage casks; which are also available.

The budget for FY07 is reduced from the planned \$46M to \$34.8M and in FY08 it went from \$46M to \$10M.

Rick wanted to know how much will it cost to ship fuels to Idaho. Rod declined to answer at this time due to too many uncertainties.

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The project is making good progress and is maintaining schedule. The cost and schedule variances are both positive; also completed ACN-1 disassembly, which was the last assembly to be disassembled.

The last of the Interim Storage Casks (ISC) will be loaded this week and will be moved to the 400 Area ISA or taken directly to the 200 Area next week. The project has transferred to the 200 Area, 5 out of 10 ISCs that are loaded and stored in the 400 Area ISA. The project intends to ship 2 casks a week; should be done by the end of April. The sodium bonded fuel and mixed oxide pins (ACO-3 and FO-2) are intended to be sent to Idaho next FY. The project is still on schedule for draining the IDS by end of this FY. The current progress being made is on procurement, design, and fabrication of equipment necessary to plunge the CCPs.

Rick inquired as to what has happened in response to the NaK incident. Rod stated the vendor is intending to return April 10 and all actions should be completed by May 10.

RL needs to provide direction to the contractor on out-year work so that they can do planning and execution.

ENVIRONMENTAL DOCUMENTATION

Doug Chapin provided an overview of upcoming environmental documentation.

Environmental Assessment - the project is in the process of drafting responses to public comments. The public comment period concluded last Friday (3-17-06).

Environmental Impact Statement - the first scoping meeting was yesterday in Seattle and another will be Tuesday (3-28-06) night in Pasco at the TRAC. Signups are at 6pm and discussion/comments begins at 7:00 pm.

CERCLA – DOE will be providing FH a letter of direction to prepare a draft EE/CA.

A review of the current TPA milestones was performed to determine which milestones would be impacted by the reduction in funding. There are 6 milestones that may be impacted as a result of the projects recent budget decisions.

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3. Milestone Status

- M-81-14-T01 - *COMPLETE FUEL STORAGE FACILITY SODIUM DRAIN (Due 4/30/07)*
 - **Status: Complete**
- M-92-10 - *SUBMIT HANFORD SITE SODIUM DISPOSITION EVALUATION REPORT TO ECOLOGY (Due 7/31/07)*
 - **Status:** May be impacted as well as M81-10-T01. There are 2 issues: bulk sodium is to be stored for an indefinite period; residual sodium will remain in the plant, so to complete a report would need to be assessed.
- M-81-10-T01 - *SUBMIT FINAL SODIUM DISPOSITION REPORT (Due 7/31/07)*
 - **Status:** May be impacted as well as M91-10. There are 2 issues: bulk sodium is to be stored for an indefinite period; residual sodium will remain in the plant, so to complete a report would need to be assessed.
- M-81-14-T02 – *INITIATE INTERIM DECAY STORAGE VESSEL SODIUM DRAIN (Due 6/30/08)*
 - **Status:** Ahead of schedule, expected to be completed by end of fiscal year.
- M-81-00A-T03 – *COMPLETE TRANSFER OF IRRADIATED FUEL TO SECURE ONSITE STORAGE (Due 3/31/09)*
 - **Status:** Ahead of schedule, expected to be completed at the end of this month.
- M-81-00A-T04 – *COMPLETE TRANSFER OF SPECIAL FUEL TO DOE'S IDAHO NATIONAL ENGINEERING LABORATORY FOR CONSOLIDATED STORAGE (Due 3/31/09)*
 - **Status:** Impacted due to budget target levels. The workscope is being assessed.

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- *M-92-09 - ESTABLISH MILESTONES FOR AND/OR TARGET DATES IF NEEDED FOR ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATIONS OF PLANNED FACILITIES NECESSARY FOR STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE SODIUM (Due 7/30/09)*
 - **Status:** Impacted due to budget target levels.
- *M-81-14 - COMPLETE FFTF SODIUM DRAIN (Due 9/30/09)*
 - **Status:** Impacted due to budget target levels. This milestone was negotiated with the premise that 3600 gallons of residuals sodium remained with some additional residuals that adhered to the piping and vessel walls. It is currently estimated that more will remain which would exceed the negotiated amount.
- *M-81-15 - SUBMIT FFTF SURVEILLANCE AND MAINTENANCE PLAN (Due 6/30/10)*
 - **Status:** May be impacted by the state of the facility. The context of the S&M plan may be different than originally planned, but the milestone is expected to be met.
- *M-81-00A-T05 – COMPLETE AUXILIARY PLANT SYSTEMS SHUTDOWN (Due 2/28/11)*
 - **Status:** On schedule
- *M-81-00A – COMPLETE FFTF FACILITY TRANSITION AND INITIATE THE SURVEILLANCE AND MAINTENANCE PHASE (Due 2/28/11)*
 - **Status:** On schedule

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4. New Topics

Rick stated the Nez Perce asked a question about steam cleaning residuals and wanted to know if LERF or ETF would be able to treat them. The statement/question was confusing, however it was decided that the "liquid waste" was the issue. Dave Polzin responded that ETF can treat it and has the capacity. The liquid waste is processed through the facility with the liquid going to a permitted facility in 200W, and solid wastes extracted and sent as low level waste for burial. LERF's capacity is much more than what the project will provide them.

5. Next Meeting

May 17, 2006

ACTION TRACKING LIST

Action	Assignee	Date Established/ Due Date	Status
RL provide Ecology with project budget overview and discuss amount savings now going to long-term low-cost S & M.	A. Farabee	1/17/2006 3/22/2006	Budget overview was provided and item was discussed at beginning of PMM. Action closed.

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Attachment 2

**List of Attendees
FFTF PMM**

R. A. Almquist	RL	A3-04
J. Ayres	Ecology	B5-18
F. W. Bond	Ecology	B5-18
D. H. Chapin	RL	A3-04
S. L. Moore	FH	H8-40
R. E. Piippo	FH	H8-12
D. Polzin	FH	N2-01
M. T. York	FH	N2-02

FFTF Project Managers Meeting
Federal Building
Richland, Washington

March 22, 2006
2:30 p.m. – 3:30 p.m.

Agenda and Action Tracking List

1.0 Administrative Issues

- a. Approval of previous meeting minutes
- b. Action Tracking Review.

2.0 FFTF Project Status schedule/budget/EIS overview – Provided by A. Farabee

3.0 Milestone status

- M-81-14-T01 - *COMPLETE FUEL STORAGE FACILITY SODIUM DRAIN (Due 4/30/07)*
 - Status:
- M-92-10 - *SUBMIT HANFORD SITE SODIUM DISPOSITION EVALUATION REPORT TO ECOLOGY (Due 7/31/07)*
 - Status:
- M-81-10-T01 - *SUBMIT FINAL SODIUM DISPOSITION REPORT (Due 7/31/07)*
 - Status:
- M-81-14-T02 – *INITIATE INTERIM DECAY STORAGE VESSEL SODIUM DRAIN (Due 6/30/08)*
 - Status:
- M-81-00A-T03 – *COMPLETE TRANSFER OF IRRADIATED FUEL TO SECURE ONSITE STORAGE (Due 3/31/09)*
 - Status:
- M-81-00A-T04 – *COMPLETE TRANSFER OF SPECIAL FUEL TO DOE'S IDAHO NATIONAL ENGINEERING LABORATORY FOR CONSOLIDATED STORAGE (Due 3/31/09)*
 - Status:

- M-92-09 - *ESTABLISH MILESTONES FOR AND/OR TARGET DATES IF NEEDED FOR ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATIONS OF PLANNED FACILITIES NECESSARY FOR STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE SODIUM (Due 7/30/09)*

Status:

- M-81-14 - *COMPLETE FFTF SODIUM DRAIN (Due 9/30/09)*
 - **Status:**
- M-81-15 - *SUBMIT FFTF SURVEILLANCE AND MAINTENANCE PLAN (Due 6/30/10)*
 - **Status:**
- M-81-00A-T05 – *COMPLETE AUXILIARY PLANT SYSTEMS SHUTDOWN (Due 2/28/11)*
 - **Status:**
- M-81-00A – *COMPLETE FFTF FACILITY TRANSITION AND INITIATE THE SURVEILLANCE AND MAINTENANCE PHASE (Due 2/28/11)*
 - **Status:**

4. New Topics

5. Next Meeting

ACTION TRACKING LIST

Action	Assignee	Date Established/ Due Date	Status
RL provide Ecology with project budget overview and discuss amount savings now going to long-term low-cost S & M.	A. Farabee	1/17/2006 3/22/2006	

**U.S. Department of Energy
Richland Operations Office
Fast Flux Test Facility (FFTF) Deactivation**

**Tri-Party Agreement (TPA)
M-81-00 Series Milestones
03/23/06**

**Status of FFTF Deactivation
TPA M-81-00 Milestones
(03/23/06)**

Milestone	Milestone Description	Due Date	Status
M-81-00A	Complete FFTF Facility Transition and Initiate the Surveillance and Maintenance Phase	02/28/11	On Schedule
M-81-00-T01	Complete Reactor Defueling	09/30/95	Completed 04/19/95
M-81-00A-T02	Complete Transfer of Unirradiated Fuel to Secure Onsite Storage	03/31/09	Completed 11/3/03
M-81-00A-T03	Complete Transfer of Irradiated Fuel to Secure Onsite Storage	03/31/09	Ahead of Schedule
M-81-00A-T04	Complete Transfer of Special Fuel to DOE's Idaho National Engineering Laboratory for Consolidated Storage	03/31/09	On Schedule
M-81-00A-T05	Complete Auxiliary Plant Systems Shutdown	02/28/11	On Schedule
M-81-01	Initiate Sodium Storage Facility Construction	02/28/97	Completed 10/9/95
M-81-02	Complete Sodium Storage Facility Startup	07/31/98	Completed 01/17/97

**Status of FFTF Deactivation
TPA M-81-00 Milestones and
Related M-20-29B Milestone
(03/23/06, Continued)**

Milestone	Milestone Description	Due Date	Status
M-81-10-T01	Submit Final Sodium Disposition Report	07/31/07	On Schedule
M-81-11	Submit FFTF End Point Criteria Document	08/31/05	Completed 07/7/05
M-81-12	Initiate FFTF Sodium Drain	06/30/03	Completed 04/7/03
M-81-13	Complete Reactor and Heat Transport System Sodium Drain	06/30/05	Completed 06/15/05
M-81-14-T01	Complete Fuel Storage Facility Sodium Drain	04/30/07	Completed 09/1/05
M-81-14-T02	Initiate Interim Decay Storage Vessel Sodium Drain	06/30/08	Ahead of Schedule
M-81-14	Complete FFTF Sodium Drain	09/30/09	On Schedule
M-81-15	Submit FFTF Surveillance and Maintenance Plan	06/30/10	On Schedule
M-20-29B	Submit Sodium Storage Facility and Sodium Reaction Facility Closure Plan or Request for Procedural Closure to Ecology as Defined in Agreement Section 6.3.3	06/30/03	Completed 06/12/03

RL Program Managers Assessment of Contractor Performance

(03/23/06)

- Fluor Hanford continues to focus on the high priority deactivation activities of fuel offload and sodium drain for FFTF.
- Secondary priority of Systems Deactivation continues on plant systems that are no longer needed.
- Project costs and schedule continue to be maintained in control

Significant Accomplishments Last Three Months

(03/23/06)

- **Fuel Offload**
 - Completed fuel wash and offload to Interim Storage Casks (ISCs) (14 assemblies, 2 ISCs)
 - Transferred 5 loaded ISCs to the 200 Area ISA
 - Completed disassembly of Multi-duct assembly ACN-1
 - 6 spent fuel assemblies remain to be washed and stored; all are sodium-bonded fuel assemblies

Significant Accomplishments Last Three Months

(03/23/06)

- **Sodium Drain**

- All bulk sodium has been drained from the FFTF Plant except for the Interim Decay Storage vessel (~23,000 gallons)
- Design of equipment for IDS sodium drain continues
- Initiated NaK cleaning in the Fuel Storage Facility cooling loop
 - Work was progressing until an unplanned NaK/Water reaction event occurred
 - A Recovery Plan has been prepared and approved
 - Actions have been initiated per the Recovery Plan

Significant Planned Actions - Next Six Months

(03/23/06)

- **Fuel Offload**

- Load and transfer one additional Interim Storage Cask to the 400 Area ISA. Planned to be completed by the end of March. This completes offload of all the mixed oxide fuel.
- Complete transfer of loaded ISCs to the 200 Area ISA.
- Wash and store sodium bonded fuel assemblies in the IEM Cell. Disposition is being evaluated.

- **Sodium Drain**

- Complete NaK loop cleaning in the Fuel Storage Facility. Planned to be completed by the end of April.
- Complete sodium drain from the Interim Decay Storage (IDS) vessel (~23,000 gallons). Due September 31.
- Remove all non-fuel components from the IDS vessel in support of sodium drain

- **Auxiliary Systems Shutdown**

- Continue systems shutdown when they are no longer needed.

- **Establish a new FFTF shutdown path forward**

Schedule / Cost Performance

Fiscal Year to Date Status (\$000s) through 02/06

<u>Description</u>	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
FFTF	\$13,581	\$15,296	\$14,557	\$1,750	\$ 739	\$42,046

Schedule Variance Analysis (+\$1.7M):

The favorable schedule progress is due to completing FY05 fuel offload activities (Interim Storage Cask deliveries and completing SRF-3 and SRF-4 processing and storage) while maintaining current year schedule.

Cost Variance Analysis (+\$0.7M):

The favorable cost progress is due to completion of Fuel Offload activities with less effort than planned and by the elimination of the need to provide supplemental heating system for the Interim Decay Storage Vessel.

Summary

(03/23/06)

- Significant progress continues to be made in the key deactivation areas of fuel offload and sodium drain
- The project is currently pursuing a clear path forward

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Federal Building
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Distribution:

R. A. Almquist	RL	A3-04
J. M. Ayres	Ecology	HO-57
F. W. Bond	Ecology	HO-57
D. H. Chapin	RL	A3-04
J. E. Hyatt	FH	H8-40
S. V. Doebler	FH	N2-33
M. E. Eby	FH	N2-57
O. A. Farabee	RL	A3-04
R. E. Piippo	FH	H8-12
S. L. Moore	FH	H8-40
D. L. Polzin	FH	N2-01
M. T. York	FH	N2-02

ADMINISTRATIVE RECORD: **Debbi Isom (two copies): H6-08** *FFTF PMM*

Please send comments on distribution list to Sonya Moore, H8-40 (372-3320).