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Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

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MAY 23 1995

The Honorable John T. Conway
Chairman
Defense Nuclear Facilities Safety Board
Suite 700
625 Indiana Ave. N.W.
Washington, D.C. 20004

Dear Mr. Conway:

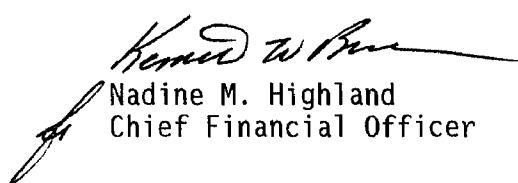
DEFENSE NUCLEAR FACILITIES SAFETY BOARD (DNFSB) RECOMMENDATION 92-4,
IMPLEMENTATION PLAN QUARTERLY STATUS REPORT

Enclosed herewith is the subject report for the three month period ending March 31, 1995. This report discusses the status of commitments that were due during the First Quarter 1995 and forecast status of commitments due during the Second Quarter 1995.

This report is submitted in accordance with Commitment Number 4.a in the 92-4 Implementation Plan.

If there are any questions, please contact Mr. E. W. Higgins of the Planning and Integration Division on (509) 372-2500.

Sincerely,



Nadine M. Highland
Chief Financial Officer

PID:EWH

Enclosure

cc w/encl:
H. Dalton, EM-20
G. Robertson, EM-36
M. Whittaker, EH-6
M. Mikolanis, EH-9

QUARTERLY REPORT ON DEFENSE NUCLEAR FACILITIES SAFETY
BOARD RECOMMENDATION 92-4 FOR THE PERIOD
JANUARY 1 - MARCH 31, 1995

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**QUARTERLY REPORT ON DEFENSE NUCLEAR FACILITIES SAFETY
BOARD RECOMMENDATION 92-4 FOR THE PERIOD
JANUARY 1 - MARCH 31, 1995**

1.0 INTRODUCTION

1.1 PURPOSE

This report provides a status of the activities underway from January 1 to March 31, 1995, at the Hanford Site and at DOE-Headquarters regarding the topics contained in the *Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 92-4, Revision 1*.

1.2 QUARTERLY HIGHLIGHTS

- The Westinghouse Hanford Company (WHC) Staffing, Qualification, and Training commitment deliverables were completed and are currently in the RL signature cycle for delivery to the DNFSB.
- The Multi-Function Waste Tank Facility project is being phased out, with capability to reassemble a project team, after five years if a decision is made that additional waste storage capacity is needed. The associated commitments (2.4.e and 2.4.f) will be removed from the 92-4 Implementation Plan.
- The Site Systems Engineering Implementation Plan has been delayed due to the Hanford restructuring effort. This plan will be submitted by May 30, 1995, after the approach is finalized. A draft of the plan was provided to the staff of the DNFSB during the March 21-23, 1995, visit to Hanford.

1.3 REPORT FORMAT

The report documents the progress of activities initiated in response to the DNFSB Recommendation 92-4, Revision 1. The report is arranged in the same order as the *DNFSB Recommendation 92-4 Implementation Plan, Attachment B (DOE 1994,)* i.e., Sitewide Commitments, TWRS Program Commitments, and TWRS Project Commitments. Each commitment that was due or overdue during the January through March 1995 quarter and the next quarter (April through June 1995) is identified and followed by a description of the status of each commitment. Topics for each reported commitment are:

- Completion status of commitments due during quarter and date deliverable was submitted to the DNFSB
- Forecast completion for commitments due in the subsequent quarter
- Other information as required to explain commitment status

In addition to this information, a Table of Commitments lists all DNFSB commitments contained in the plan. Shading on commitments indicate those commitments that have been submitted to the DNFSB.

1.4 TABLE OF COMMITMENTS

TABLE OF COMMITMENTS

SITEWIDE COMMITMENTS

Commitment Number	Commitment/Deliverable Title	Plan Completion Date	Date Submitted to DNFSB	Status Note
2.2.a	(1) Draft Site Functions and Requirements (dated 01/10/94) and Addendums 1, 2, and 3 (2) Draft Architecture Synthesis Basis for the Hanford Cleanup System (3) Draft Systems Engineering Product Description Report for the Hanford Cleanup Mission	6/30/94	7/12/94	
2.2.b	(1) Systems Engineering Implementation Plan based on FY 1995 Multi-Year Program Plan (MYPP) logic and planning for the site (2) Letter of direction to affected site participants to include use of systems engineering in accordance with DOE policy to develop the technical baselines that will be used as the basis for MYPP updates	11/15/94 3/31/95		
3.6.a	Hanford Site Management System Directives	7/12/94 (Updates thru 2/1/95)	7/12/94	
3.7.d	Draft Site Systems Engineering Management Plan	3/31/94	7/12/94	
3.7.e	Final Site Systems Engineering Management Plan	Pending completion of External Review		
3.7.f	Draft Site SEMP Implementing Procedures	2/14/95		

TABLE OF COMMITMENTS

TWRS PROGRAM COMMITMENTS

Commitment Number	Commitment/Deliverable Title	Plan Completion Date	Date Submitted to DNFSB	Status Note
2.4.a	Initial TWRS Systems Analysis Report reflecting the systems engineering work done to 10/31/93	10/31/93	4/1/94	
2.4.b	TWRS Detailed Preliminary Functional Analysis Report	1/18/94	4/1/94	
2.4.c	TWRS Top-Level Systems Requirements Review Report	1/31/95		
2.4.d	TWRS Technical Requirements Review Report	3/31/95		
3.2.a	TWRS Integrated Technology Plan	6/10/94	9/28/94	
3.3.a	DOE-RL and Hanford Contractor Staff Qualification and Training Process (Consistent with 93-3, Commitment 4.3)	10/31/94	11/17/94	
3.3.b	Hanford Performance-Based Training and Qualification Process (REF: 93-3 Commitment 4.3)	10/31/94	11/17/94	
3.3.c	DOE-RL Qualification and Training Evaluation and Assessment Process	10/31/94	11/17/94	
3.3.d	Report of Independent Assessment of RL and WHC TWRS Qualification and Training Process	10/21/94	10/21/94	
3.4.a	DOE-HQ (EM-36) Preliminary Staff Analysis Report	3/31/94		1
3.4.b	RL TWRS Preliminary Staff Analysis Report	8/26/94		1
3.4.c	DOE-HQ (EM-36) Individual Development Plans	10/31/94		2
3.4.d	RL TWRS IDPs (Training Requirements Matrix)	10/31/94	11/17/94	
3.4.e	RL TWRS Orientation Report documenting status and initiation of orientation	10/31/94	11/17/94	

TABLE OF COMMITMENTS

TWRS PROGRAM COMMITMENTS

Commitment Number	Commitment/Deliverable Title	Plan Completion Date	Date Submitted to DNFSB	Status Note
3.4.f	HQ (EM-36) Orientation Report documenting status and initiation of orientation	10/31/94	11/17/94	
3.4.g	Final Staff Analysis Document	90 days after 93-3 Qualif Standards Delivery		
3.4.h	Report documenting completion of required technical training identified in IDPs and TRMs	RL: 8/31/95 HQ: 10/31/95		
3.5.a	WHC TWRS Staffing Analysis and WHC Position Qualification Standards	1/27/95		
3.5.b	WHC TWRS Individual Qualification and Training Plans	2/28/95		
3.5.c	WHC TWRS Selection Process Report documenting status and completion	3/17/95		
3.6.b	TWRS Management Systems Description (MSD) document and Policy Annexes	11/30/94	12/13/94	
3.6.c	Schedule for development and issuance of the WHC TWRS Management Plan and associated documentation	12/30/94	3/30/95	
3.7.a	TWRS Industry/Government Standards Review Report	12/14/93	4/1/94	
3.7.b	A letter report summarizing the SE Comparison Analysis	10/31/94	11/10/94	
3.7.c	DOE-FM Report on DOD Systems Engineering Standard Review	3/31/95		
3.7.g	Draft TWRS Systems Engineering Management Plan	3/31/94	3/31/94	
3.7.h	TWRS SEMP Implementing Procedures Schedule	Included in Commitment 3.6.c		4

TABLE OF COMMITMENT

TWRS PROGRAM COMMITMENTS

Commitment Number	Commitment/Deliverable Title	Plan Completion Date	Date Submitted to DNFSB	Status
3.7.i	Revised TWRS SEMP Schedule	Included in Commitment 3.6.c	4	
3.8.a	Draft Configuration Management Plan that describes technical configuration control within the TWRS program	1/31/94	4/1/94	
3.9.a	TWRS Multi-Year Work Plan	9/30/94	10/94	
3.10.a	TWRS Quality Management Policy Annex	11/30/94	12/13/94	
3.10.b	TWRS Health and Safety Management Policy Annex	11/30/94	12/13/94	

TWRS PROJECT COMMITMENTS

2.4.e	MWTF Baseline Comparison Report	9/30/95		3
2.4.f	MWTF Independent Critical Design Review Report	Prior to start of construct		3
2.4.g	Aging Waste Transfer Line Baseline Comparison Report	11/30/95		
2.4.h	Cross-site Transfer Line Baseline Comparison Report	11/30/95		
2.4.i	Initial Retrieval Demonstration Baseline Comparison Report	11/30/95		
2.4.j	Initial Pretreatment Baseline Comparison Report	11/30/95		
2.4.k	Scheduled dates for each Project Independent Design Review	1/31/95	2/13/95	
2.4.l	Summary Report for each Standdown Review	1/13/94	4/1/194	

TABLE OF COMMITMENTS

92-4 CONTINUING COMMITMENTS

Commitment Number	Commitment/Deliverable Title	Plan Completion Date	Date Submitted to DNFSB	Status Note
4.a	Quarterly Status Reports	Quarterly		
5.a	Revised 92-4 Implementation Plan	As required		
5.b	Discussions in Quarterly Status Reports	As required		

NOTES:

1. Commitments 3.4.a and 3.4.b (RL and HQ Preliminary Staff Analysis Reports will not be submitted to the DNFSB because they will be replaced by the Final Staff Analysis document (Commitment 3.4.g).
2. Commitments 3.4.c and 3.4.d (RL and HQ Individual Development Plans) could not be submitted to the DNFSB because of Privacy Act concerns. These documents are available at HQ and RL for DNFSB review.
3. The Multi-Function Waste Tank Facility (Project W-236A) will be phased out with the capability to reassemble a project team and complete construction of two tanks in the 200 West Area five years after a decision is made concerning what additional waste storage capacity is needed. (Reference RL letter, J. E. Kinzer, DOE-RL, to President, WHC, dated March 17, 1995, "Multi-Function Waste Tank Facility - Project 2-236A Decision Paper.")
4. Part of the development approach delineated in the Commitment 3.6.c schedule requires an agreement between the Department of Energy, TWRS Program Office, and WHC regarding the extent and depth of the TWRS SEMP and Implementing Procedures. Upon reaching agreement, the schedule for Commitments 3.7.h and 3.7.i will be submitted to the DNFSB.

**2.0 STATUS: COMMITMENTS DUE/OVERDUE DURING 1ST QUARTER 1995
AND FORECAST FOR 2ND QUARTER 1995.**

2.1 SITEWIDE COMMITMENTS

**2.1.1 COMMITMENT 2.2.b(1): SYSTEMS ENGINEERING IMPLEMENTATION PLAN BASED ON
FY 1995 MULTI-YEAR PROGRAM PLAN (MYPP) LOGIC AND PLANNING FOR THE SITE.
(DUE: November 15, 1994)**

STATUS: Due to the impacts of the RL workforce restructuring, the entire Site System Engineering program underwent a complete review by the Westinghouse Hanford Company (WHC) and RL. As a result of this review, WHC is submitting a revised Site System Engineering Implementation schedule and resource requirements by May 19, 1995. In addition, the TWRS System Requirements Review (SRR) will require an action plan to resolve the SRR findings. (Reference letter Grumbly to Conway, dated April 24, 1995.) The System Engineering Implementation Plan must be consistent with the SRR action plan regarding interfaces between the site and the TWRS. It must also reflect the RL agreement with the WHC system engineering implementation schedule. Therefore, the System Engineering Implementation Plan will be completed and submitted to the DNFSB after the above conditions are met. A submittal date will be established after review of the revised WHC implementation schedule and Site System Engineering interfaces with the TWRS SRR action plan.

**2.1.2 COMMITMENT 2.2.b(2): Letter of Direction to affected Site Participants
to include use of Systems Engineering in accordance with DOE policy to
develop the Technical Baselines that will be used as the basis for
Multi-Year Program Plan (MYPP) Updates. (DUE: March 31, 1995)**

STATUS: This direction will be part of the Fiscal Year Work Plan (FYWP) 1996 direction to the contractors. The FYWP Direction Letters are scheduled to be sent to the contractors by mid-May 1995.

**2.1.3 COMMITMENT 3.6.a: HANFORD SITE MANAGEMENT SYSTEM DIRECTIVES.
(DUE February 1, 1995)**

STATUS: The Site Management System Directives have been canceled and are being re-issued as part of the site systems re-engineering effort. The structure of the directives may change due to the work restructuring that is occurring at Hanford. A new date for this commitment is being established as part of the System Engineering Implementation Plan (see section 2.1.1 above.)

**2.1.4 COMMITMENT 3.7.e: FINAL SITE SYSTEMS ENGINEERING MANAGEMENT PLAN. (DUE:
Pending Completion of External Review)**

STATUS: Work on this deliverable is on hold pending completion of review of the site systems engineering effort. A new date for this commitment is being established as part of the System Engineering Implementation Plan (see section 2.1.1 above.)

**2.1.5 COMMITMENT 3.7.f: DRAFT SITE SEMP IMPLEMENTING PROCEDURES. (DUE:
February 14, 1995)**

STATUS: A new date for this commitment is being established as part of the System Engineering Implementation Plan (see section 2.1.1 above.)

2.2 TWRS PROGRAM COMMITMENTS

2.2.1 COMMITMENT 2.4.c: TWRS TOP-LEVEL SYSTEMS REQUIREMENTS REVIEW REPORT. (DUE: January 31, 1995)

STATUS: A draft report was sent to the DOE Richland Operations Office on February 17, 1995, for review of the report's factual content. Comments were received and appropriate changes, mainly clarifications, are being incorporated into the report. The report is currently scheduled to be finalized in early April and issued by April 28, 1995.

2.2.2 COMMITMENT 2.4.d: TWRS TECHNICAL REQUIREMENTS REVIEW REPORT. (DUE: March 31, 1995)

STATUS: Completion of the TWRS Technical Requirements Review (TRR) has been delayed because actions required to approve the Functional Requirements Baseline such as completion of the Systems Requirements Review are behind schedule, and because available resources have not been focused on activities required to support the TRR. The TRR is currently scheduled for June 1995. This date may be revised as part of the action plan being developed to respond to the Systems Requirements Review report (see Commitment 2.4.c, above.)

2.2.3 COMMITMENT 3.4.g: FINAL STAFF ANALYSIS DOCUMENT. (DUE: 90 days after 93-3 Qualification Standards Delivery)

STATUS: Constrained by delivery of the Qualification Standards issued as a deliverable under DNFSB Recommendation 93-3 Implementation Plan. The 93-3 Qualification Standards are not yet complete.

2.2.4 COMMITMENT 3.5.a: WHC TWRS STAFFING ANALYSIS AND POSITION QUALIFICATION STANDARDS. (DUE: January 27, 1995)

STATUS: Complete. This deliverable is in the signature cycle for submittal to the DNFSB.

2.2.5 COMMITMENT 3.5.b: WHC TWRS INDIVIDUAL QUALIFICATION AND TRAINING PLANS. (DUE: February 28, 1995)

STATUS: Complete. These plans will not be submitted to the DNFSB due to Privacy Act restrictions but are available for review by the DNFSB at the WHC facilities at Hanford.

2.2.6 COMMITMENT 3.5.c: WHC TWRS SELECTION PROCESS REPORT DOCUMENTING STATUS AND COMPLETION. (DUE: March 17, 1995)

STATUS: Complete. This deliverable is in the signature cycle for submittal to the DNFSB.

2.2.7 COMMITMENT 3.6.c: SCHEDULE FOR DEVELOPMENT AND ISSUANCE OF THE WHC TWRS MANAGEMENT PLAN AND ASSOCIATED DOCUMENTATION. (DUE: December 30, 1994 -- 30 days after issuance of the PMSD + annexes)

STATUS: Complete. This deliverable was submitted to the DNFSB on March 30, 1995. Part of the development approach delineated in the schedule requires an agreement between the Department of Energy, TWRS Program Office and WHC, regarding the extent and depth of the TWRS SEMP and the Implementing Procedures. Upon reaching agreement, the schedule for these deliverables will

be submitted to the DNFSB for meeting Commitments 3.7.h and 3.7.i.

2.2.8 COMMITMENT 3.7.c: DOE-FM REPORT ON DOD SYSTEMS ENGINEERING STANDARD REVIEW. (DUE: March 31, 1995)

STATUS: FM is in the process of requesting an extension of one month. The study is underway with a draft expected during the week of April 10, 1995.

2.2.9 COMMITMENT 3.7.h: TWRS SEMP IMPLEMENTING PROCEDURES SCHEDULE. (DUE: Included in Commitment 3.6.c)

STATUS: The specific schedule for these procedures will be established upon completion of discussions between DOE-RL and WHC. See status of paragraph 2.2.7.

2.2.10 COMMITMENT 3.7.i: REVISED TWRS SEMP SCHEDULE. (DUE: Included in Commitment 3.6.c.)

STATUS: The specific schedule for the revised TWRS SEMP will be established upon completion of discussions between DOE-RL and WHC. See status of paragraph 2.2.7.

2.3 TWRS PROJECT COMMITMENTS.

2.3.1 COMMITMENT 2.4.k: SCHEDULED DATES FOR EACH PROJECT INDEPENDENT DESIGN REVIEW. (DUE: January 31, 1995)

STATUS: Complete. This deliverable was submitted to the DNFSB on February 13, 1995.

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