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OCT 31 1996

96-PMDA-080

Mr. John T. Conway, Chairman
Defense Nuclear Facilities Safety Board
625 Indiana Ave, N.W. Suite 700
Washington, DC 20004

Dear Mr. Chairman:

**DEFENSE NUCLEAR FACILITIES SAFETY BOARD (DNFSB) RECOMMENDATION
92-4 IMPLEMENTATION PLAN FOURTH QUARTER FY 96 STATUS REPORT**

Enclosed is the above subject report. Site commitments are complete, but site integration activities, initiatives, and planning continue. If you have any questions, please contact me, or your staff may contact Carol Sohn of the Office of Tank Waste Remediation System, Management System Division, on (509) 376-8523.

Sincerely,

John D. Wagoner
Manager

Enclosure

cc w/encl:
R. D. Izatt, EM-2
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M. Mikolanis, S-3.1
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FY 1996 FOURTH QUARTER REPORT DNFSB RECOMMENDATION 92-4 IMPLEMENTATION PLAN REVISION 1

U.S. DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE

FY 1996 FOURTH QUARTER REPORT ON DEFENSE NUCLEAR FACILITIES SAFETY BOARD RECOMMENDATION 92-4 IMPLEMENTATION PLAN FOR THE PERIOD JULY 1, 1996 - SEPTEMBER 30, 1996

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1.0 INTRODUCTION

1.1 PURPOSE

This report provides the status of activities underway between July 1, 1996 and September 30, 1996, at the Hanford Site by the Department of Energy (DOE) Richland Operations Office (RL) and DOE Headquarters (HQ) relating to the *Defense Nuclear Facilities Safety*

1.2 SITEWIDE THREE-MONTH HIGHLIGHTS

In July 1996, RL submitted documents completing DNFSB Recommendation 92-4 commitments for the Systems Engineering Implementation Plan (SEIP), the Final Site-wide Systems Engineering Management Plan (SEMP), and the Site SEMP Implementing Procedures. In September 1996, RL submitted documentation to the DNFSB completing the DNFSB Recommendation 92-4 commitment covering Hanford Site Management System Directives. These actions completed all RL Site-wide commitments.

During this quarter, Site-wide Systems Engineering (SWSE) and the projects at Hanford continued to implement these and other SWSE documents. One result was continued development of the Hanford Site Technical Baseline (HSTB). The revised HSTB provided the Site an improved definition of requirements, planning assumptions, technical issues, and site-level project interfaces.

The HSTB was used this quarter to generate Section 1 of the individual Project Hanford FY 1997 Multi-Year Work Plans (MYWPs). Section 1 of the MYWPs provides essential requirements, interfaces, waste type data, and infrastructure data, including forecasted information. At Hanford, these MYWP sections are used as the bases for more detailed project planning, including the cost/schedule estimates necessary to treat, store and dispose of materials/facilities in accordance with all established regulatory requirements. This is the first time that the HSTB data has been directly used in developing the MYWPs; its value as a planning tool became clearly evident.

As part of DOE's contract reform initiative, the reporting relationships for Hanford contractors were significantly modified at the end of the fourth quarter. The new Management Contractor (Fluor Daniel Hanford Team) is chartered to develop and evolve the systems engineering processes consistent with the RLPD 430.1 and RLID 430.1 requirements, the Project Hanford Management Contract (PHMC) contract provisions, and established performance agreements.

Specific processes and methodologies which will govern the development and execution of the integrated technical baseline for Project Hanford, will be contained in the PHMC Systems Engineering Management Plan (SEMP). The PHMC-SEMP was delivered to RL for review on October 1, 1996.

1.3 TANK WASTE REMEDIATION SYSTEM THREE-MONTH HIGHLIGHTS

Another draft of DNFSB Recommendation 92-4 Implementation Plan, Revision 2 was developed and informally submitted to DNFSB Staff for comment during this quarter. Commitment changes included in this draft have been discussed with DNFSB Staff and submittal of a revised 92-4 Implementation Plan is scheduled for FY 1997.

The Contractor's Tank Waste Remediation System (TWRS) Systems Engineering Management Plan (SEMP) and SEMP Implementing Procedures were accepted by RL and

forwarded to the DNFSB. This submittal also completed required actions identified for Commitment 3.6.c, "A Schedule for Development and Issuance of the Contractor TWRS Management Plan and Associated Documentation."

The System Requirements Review (SRR) Action Plan was approved by DOE-HQ on July 16, 1996 and the SRR Implementation Plan was submitted informally to DNFSB Staff in September 1996. RL has accepted this Plan as "Work-in-Progress" pending a revision resulting from the ongoing analyses and refinement of FY 1997 workscope.

A TWRS contractor staffing analysis supporting the FY 1997 Multi-Year Work Plan planning effort was completed and submitted this quarter. The analysis identified that current staff skills are relatively close to the planned work. The TWRS RL staffing analyses are currently being performed by each of the TWRS divisions. Position specific knowledge, skills, and ability requirements are being derived on the basis of TWRS mission and functional requirements, and staff personnel will be evaluated against these requirements. These analyses will be used to further refine the qualification requirements currently stated in the Technical Program Qualification standards described in the DNFSB Recommendation 93-3 Implementation Plan.

The Baseline Comparison Report for the Cross-Site Transfer Line Project was updated to incorporate an expanded discussion on risk assessment, reviewed by the DNFSB Staff, and submitted this quarter. This comparison report compared Functional Design Criteria and a preliminary Design Requirements Document (based on TWRS Functions and Requirements as of August 1995). The report reaffirmed the need for this project.

The Tank Waste Remediation System (TWRS) Mission Analysis Report (MAR) was reviewed by RL this quarter. Comments generated were closed and the MAR was submitted by the Contractor to RL for approval. The Functions & Requirements Document (FRD) which, in conjunction with the MAR, constitutes the initial portion of the TWRS technical baseline documentation, has undergone significant change to bring it in line with the TWRS privatization effort. Further work is still required on the FRD before it meets the defined acceptance criteria. It is expected that the Project Hanford Management Contractor will accomplish this work within FY 1997.

Specific details on the DNFSB 92-4 Implementation Plan TWRS commitment status and progress for the fiscal year to date are provided in Sections 2.2 and 2.3.

1.4 REPORT FORMAT

This report documents progress on commitments in the DNFSB Recommendation 92-4 Implementation Plan. It is arranged in the same order as the implementation plan (i.e., Site-wide Commitments, TWRS Program Commitments, TWRS Project Commitments, and Continuing Commitments). Each commitment that was due or overdue during the July 1996 through September 1996 period and the next quarter (October 1996 through December 1996) is identified and followed by a description of its status.

Topics for each reported commitment include:

- Completion status of commitments due during the 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. Shaded commitments indicate those commitments that have been submitted to the DNFSB and are considered complete.

1.5 TABLE OF COMMITMENTS

SITEWIDE COMMITMENTS

Commitment	Commitment/Deliverable Title	Due Date	Submitted	Status
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)	1. Systems Engineering Implementation Plan based on FY 1995 Multi-Year Program Plan (MYPP) logic and planning for the site	11/15/94	7/15/96	
2.2.b(2)	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	3/31/95	7/14/95	
3.6.a	Hanford Site Management System Directives	7/12/94	9/23/96	
3.7.d	Draft Site Systems Engineering Management Plan (SEMP)	3/31/94	7/12/94	
3.7.e	Final Site SEMF	6/30/94	7/15/96	
3.7.f	Draft Site SEMF Implementing Procedures	2/14/95	7/15/96	

TWRS PROGRAM COMMITMENTS

Commitment	Commitment/Deliverable Title	Due Date	Submitted	Status
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	4/95	
2.4.d	TWRS Technical Requirements Review Report	3/31/95		1

3.2.a	TWRS Integrated Technology Plan	6/10/94	9/28/94	2
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 Contractor 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	3/31/94	
3.4.b	RL TWRS Preliminary Staff Analysis Report	8/26/94	8/26/94	
3.4.c	DOE-HQ (EM-36) Individual Development Plans	10/31/94	10/31/94	
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	
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 Stds Delivery		3
3.4.h	Report documenting completion of required technical training identified in Individual Development Plan and Training Requirements Matrix	RL: 8/31/95 HQ:10/31/95		3
3.5.a	Contractor TWRS Staffing Analysis and Contractor Position Qualification Standards	1/27/95	9/30/96	
3.5.b	Contractor TWRS Individual Qualification and Training Plans	2/28/95	4/25/95	
3.5.c	Contractor TWRS Selection Process Report documenting status and completion	3/17/95	4/25/95	
3.6.b	TWRS Management Systems Description document and Policy Annexes	11/30/94	12/13/94	
3.6.c	Schedule for development and issuance of the Contractor TWRS Management Plan and associated documentation	12/30/94	9/30/96	
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	6/19/95	
3.7.g	Draft TWRS Systems Engineering Management Plan	3/31/94	3/31/94	
3.7.h	TWRS Systems Engineering Management Plan Implementing Procedures		9/30/96	5
3.7.i	Revised TWRS Systems Engineering Management Plan		9/30/96	5

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

Commitment	Commitment/Deliverable Title	Due Date	Submitted	Status
2.4.e	Multi-Function Waste Tank Facility Baseline Comparison Report	9/30/95	2/8/96	4
2.4.f	Multi-Function Waste Tank Facility Independent Critical Design Review Report	Prior to construction	2/8/96	4
2.4.g	Aging Waste Transfer Line Baseline Comparison Report	11/30/95	2/8/96	4
2.4.h	Cross-site Transfer Line Baseline Comparison Report	11/30/95	9/30/96	
2.4.i	Initial Retrieval Demonstration Baseline Comparison Report	11/30/95		1
2.4.j	Initial Pretreatment Baseline Comparison Report	11/30/95		1
2.4.k	Scheduled dates for each Project Independent Design Review	1/31/95		1
2.4.l	Summary Report for each Standdown Review	1/13/94	4/1/94	

CONTINUING COMMITMENTS

Commitment	Commitment/Deliverable Title	Due Date	Submitted	Status
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 2.4.d, 2.4.i, 2.4.j, and 2.4.k will be superseded by commitments more aligned with currently planned TWRS projects in a planned revision to the DNFSB 92-4 Implementation Plan.
2. Although Commitment 3.2.a is complete, DOE-RL re-evaluated the Integrated Technology Plan with a view toward clarifying an alternative path to privatized waste processing. A commitment associated with this re-evaluation will be proposed in a planned revision to the DNFSB Recommendation 92-4 Implementation Plan.
3. Effort on Commitments 3.4.g and 3.4.h is in progress. See Section 2.0 of this report for additional details.
4. As a result of the February 8, 1996, letter from H. O'Leary to J. Conway stating the

Department's intent to delete commitments 2.4.e, 2.4.f, and 2.4.g, these commitments are considered deleted.

5. The due date for this deliverable will be submitted in response to the RL-TWRS Management System Description and Policy Annexes--ref: Commitment 3.6.c.

2.0 STATUS: COMMITMENTS DUE/OVERDUE DURING FOURTH QUARTER FY 1996 AND FORECAST FOR FIRST QUARTER FY 1997

2.1 SITEWIDE COMMITMENTS

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

STATUS: COMPLETE: As part of RL's new organizational ownership, policy and implementation guidance for Sitewide Systems Engineering (SWSE) at Hanford, RLID 430.1 "Systems Engineering Criteria Document and Implementing Directive", was developed. RLID 430.1 constitutes the SEIP and is based on the FY 1996 MYPP logic and planning for the site. This document was formally transmitted to the DNFSB on July 15, 1996.

- 2.1.2 **COMMITMENT 3.6.a**: COMPLETE SITE MANAGEMENT SYSTEM (SMS) DIRECTIVES
(DUE: July 12, 1994)

STATUS: COMPLETE: As part of DOE's contract reform initiative, and in anticipation of managing the Hanford Site under the Project Hanford Management Contractor (PHMC), RL eliminated many unnecessary directives developed to support SMS. These directives were replaced by the Hanford Management Plan (HMP), a Site management document describing management protocols, planning timelines, and roles and responsibilities to be used under the PHMC. The HMC is supported by specific SMS directives where additional detail is appropriate.

The HMP and its supporting SMS directives were formally transmitted to the DNFSB on September 23, 1996.

- 2.1.3 **COMMITMENT 3.7.e**: FINAL SITE SYSTEMS ENGINEERING MANAGEMENT PLAN.
(DUE: June 30, 1994)

STATUS: COMPLETE: The Site Systems Engineering Management Plan (SEMP), incorporating the changes in policy and implementation for SWSE at Hanford (i.e., RLPD 430.1 and RLID 430.1), was issued for use this quarter. The SEMP was formally transmitted to the DNFSB on July 15, 1996.

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

STATUS: COMPLETE: Site SEMP implementing procedures are available to all Site

personnel on the Hanford Local Area Network (HLAN), as guidance to specific projects and programs. Documentation to complete this commitment was formally transmitted to the DNFSB on July 15, 1996.

2.2 TWRS PROGRAM COMMITMENTS

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

STATUS: OVERDUE: The TWRS functional requirements form the basis for TWRS technical requirements. The TWRS functional requirements, as defined by a Mission Analysis Report, a Functions and Requirements Document, and other documents, were rejected in April 1995 as a result of the TWRS System Requirements Review (SRR). In response to the DOE-HQ SRR, DOE-RL generated a SRR Action Plan. This SRR Action Plan was approved by DOE-HQ on July 16, 1996. An SRR Implementation Plan has resulted from the SRR Action Plan. The initial version of the Implementation Plan is based on the August, 1996 draft of the FY 1997 MYWP and is planned to be revised in December 1996.

To define the technical requirements for projects without adversely affecting TWRS goals, the TWRS functional requirements baseline will be established before all the SRR issues have been fully resolved. For those SRR issues remaining at the time the functional baseline is approved, enabling assumptions will be identified to allow progress to continue. The risk associated with each of these enabling assumptions will be determined and identified on the appropriate contractors' TWRS risk management. Studies will be conducted to close these enabling assumptions as needed.

Based on discussion with DNFSB Staff on June 26, 1996, and thereafter, this commitment will be superseded in a revised DNFSB 92-4 Implementation Plan by a similar commitment for the Initial Tank Retrieval System Project.

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

RL STATUS: OVERDUE: This commitment was reopened for a revised staff analysis. This analysis will be based on the current TWRS organizational alignments; the Management Systems Division in TWRS is serving as a pilot for the revision. The process involves the derivation of position specific knowledge, skills, and abilities requirements from TWRS' mission and functions, and the identification of existing personnel knowledge, skills, and abilities. These outputs are compared and used to determine discrepancies and position specific TWRS personnel training requirements. The training will be completed in conjunction with training required by the DNFSB Recommendation 93-3 Implementation Plan Technical Qualification Program. A date for completing the TWRS staffing analysis and definition of the deliverable will be provided in a planned revision to the DNFSB 92-4 Implementation Plan.

HQ STATUS: OVERDUE: The HQ staffing analysis is also being updated to reflect

the new HQ organizational alignment and will incorporate the DNFSB 93-3 Implementation Plan requirements. It will be submitted to the DNFSB by November 29, 1996.

- 2.2.3 **COMMITMENT 3.4.h**: REPORT DOCUMENTING COMPLETION OF REQUIRED TECHNICAL TRAINING IDENTIFIED IN IDPs AND TRMs (DUE: August 31, 1995)

RL STATUS: OVERDUE: Completion of this commitment was identified as contingent upon completing the DNFSB 93-3 Implementation Plan Technical Qualification Program (reference letter John Wagoner to Chairman John Conway, September 9, 1995). During the third quarter of FY 1996, DNFSB Staff agreed that completion of DNFSB 92-4 Implementation Plan training requirements may be consolidated with the RL Technical Qualification Program required by the DNFSB 93-3 Implementation Plan. Effort is now focused on completing these requirements before May 1998 as specified in the DNFSB 93-3 Implementation Plan.

HQ STATUS: OVERDUE: DOE-HQ is also focused on completing the TWRS training requirements, as identified in the Individual Development Plans (IDPs), by May 1998.

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

STATUS: COMPLETE: A quantitative and qualitative assessment of the required staff to accomplish the TWRS mission and position qualification standards were initially submitted in April 1995 as a "snapshot in time." DNFSB Staff subsequently requested a revised "snapshot" and additional information on the contractor's qualification program.

A revised Contractor Staffing Analysis, based on the Draft FY 1997 Multi-Year Work Plan, and a description of the Contractor's Technical Qualification Program were formally transmitted to the DNFSB on September 30, 1996.

- 2.2.5 **COMMITMENT 3.6.c**: ISSUE SCHEDULE FOR DEVELOPING/ISSUING WHC TWRS MANAGEMENT PLAN AND ASSOCIATED DOCUMENTATION (DUE: December 30, 1994)

STATUS: COMPLETE: Included in this commitment were schedules for developing and issuing the TWRS Systems Engineering Management Plan (SEMP) and TWRS SEMP Implementing Procedures (Commitments 3.7.h and 3.7.i). Commitment 3.6.c was partially completed by a submittal to the DNFSB on March 30, 1995. With submittal of documentation supporting Commitments 3.7.h and 3.7.i below, this commitment is now complete.

- 2.2.6 **COMMITMENT 3.7.h**: TWRS SEMP IMPLEMENTING PROCEDURES. (DUE: The due date for this deliverable will be submitted in response to the RL-TWRS Management System Description and Policy Annexes--ref: Commitment 3.6.c.)

STATUS: COMPLETE: TWRS SEMP Implementing Procedures were issued in the third quarter, are currently in use, and support transition activities associated with the Project Hanford Management Contract. The procedures were formally transmitted to the DNFSB on September 30, 1996.

2.2.7 **COMMITMENT 3.7.i:** REVISED TWRS SEMP.

(DUE: The due date for this deliverable will be submitted in response to the RL-TWRS Management System Description and Policy Annexes--ref: Commitment 3.6.c.)

STATUS: COMPLETE: The final draft of the TWRS SEMP, incorporating the DOE-RL Systems Engineering Policy from the TWRS Program Management System Description, was issued in February 1996. This document has been updated and issued for use. It was formally transmitted to the DNFSB on September 30, 1996.

2.3 TWRS PROJECT COMMITMENTS

2.3.1 **COMMITMENT 2.4.h:** CROSS-SITE TRANSFER LINE BASELINE COMPARISON REPORT.

(DUE: November 30, 1995)

STATUS: COMPLETE: TWRS Systems Requirements specify development of a TWRS Functions and Requirements (F&R) document to provide top level requirements for TWRS projects. The F&R was developed in preliminary form but required rework as a result of the TWRS Systems Requirements Review (SRR). Since the SRR Implementation Plan, which identifies the actions needed to approve the F&R, has not yet been accepted or the actions in it completed, selected TWRS projects have had to proceed on the basis of an updated, but not yet final, F&R document in order to support critical TWRS Program objectives. The latest version of the F&R is being used as the starting point for development of the Design Requirements Documents for these projects.

For the Cross-Site Transfer Line project, a baseline comparison between the Functional Design Criteria and a preliminary Design Requirements Document based on the August 1995 version of the F&R has been completed and has reaffirmed the need for this project. This Baseline Comparison Report was formally transmitted to the DNFSB on September 30, 1996.

2.3.1 **COMMITMENT 2.4.i:**

(DUE: November 30, 1995)

STATUS: OVERDUE: Refer to Commitment 2.4.h above for a discussion of the TWRS Systems Requirements and the status of the TWRS Functions and Requirements document. On the Initial Tank Retrieval System (ITRS) Project, design work is proceeding on the basis of the January 1996 version of the F&R. Based on discussion with the DNFSB Staff on June 26, 1996, this commitment will be superseded in a planned revision to the DNFSB Recommendation 92-4 Implementation Plan by a similar commitment for the first tank modified in the ITRS Project.

2.3.2 **COMMITMENT 2.4.j**: INITIAL PRETREATMENT BASELINE COMPARISON REPORT
(DUE: November 30, 1995)

STATUS: OVERDUE: All work on this project was suspended in July 1995 and funding was not allocated to the project in FY 1996. On July 24, 1996, DOE and the Washington State Department of Ecology approved the Change Request for the Hanford Federal Facility Agreement and Consent Order, (Tri-Party Agreement). As a result of this Change Request, Tri-Party Agreement Change Request M-50-95-01 to delete this workscope was subsequently approved.

Based on discussion with DNFSB Staff, this commitment will be superseded in a planned revision to the DNFSB Recommendation 92-4 Implementation Plan with a commitment clarifying an alternative path to privatized waste processing.

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

STATUS: OVERDUE: Based on the use of the standard SEMP processes and procedures, independent design reviews will not be required on future projects. As discussed with the DNFSB Staff on June 26, 1996, this commitment will be superseded by a commitment relating to activities that implement TWRS SEMP processes on an example project. The commitment will be identified in a planned revision to the DNFSB 92-4 Implementation Plan.