

Department of Energy . Washington, DC 20585 May 21, 1998

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

Dear Mr. Chairman:

Enclosed is the quarterly progress report on implementation of Defense Nuclear Facilities Safety Board Recommendation 94-2 for the period October 1, 1997, through December 31, 1997.

The quarterly progress report contains a status table on the task initiatives that were due or overdue during the October 1, 1997, to December 31, 1997, reporting period. The status table shows that the Department is behind schedule in completing a number of commitments. These delays are largely due to unforseen events including downsizing, lawsuits, and new and competing priorities which have taxed our ability to make progress on a number of the Task Initiatives. However, the fundamental approaches to addressing the Task Initiatives and the deliverables have not changed.

The Department is committed to meeting the 94-2 commitments and working with you and your staff to reach closure on all of the 94-2 commitments by the end of this fiscal year. By May 29, 1998, the Department will submit a Quarterly Report for the period from January 1, 1998, through March 31, 1998. This Quarterly Report will provide detailed information on all of the late deliverables and our proposed plan and schedule to complete each of the deliverables. I would then like to meet with you and the other members of the Board to discuss our progress, answer your questions, and understand any further concerns you may have. If you have any questions concerning this information, please contact me at (202) 586-7710 or Mark Frei at (202) 586-0370.

Sincerely,

James M. Owendoff

Acting Assistant Secretary for Environmental Management

Jam M. Camieff

Enclosure

cc: Mark B. Whitaker, Jr., S-3.1

Quarterly Report

for

Implementation Plan

Defense Nuclear Facilities Safety Board

Recommendation 94-2

Conformance with Safety Standards at
Department of Energy
Low-Level Nuclear Waste and Disposal Sites

October 1 through December 31, 1997

Quarterly Report for Implementation Plan Defense Nuclear Facilities Safety Board Recommendation 94-2

1.0 INTRODUCTION

The Department of Energy (DOE) issued the "Implementation Plan, Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 94-2" in March 1995. In May 1996 DOE issued a revision to the Implementation Plan that reflected enhancements to DOE's approaches to systems engineering and the radiological assessments, and better integration and coordination of both the task initiatives and the involved organizations. In August 1996, the Department received a letter from the DNFSB accepting the revised Implementation Plan, with conditions.

The revised Implementation Plan follows the same general approach as the original, identifying initiatives in six task areas:

- Systems Engineering
- · Complex-Wide Review
- · Regulatory Structure and Process
- Radiological Assessments
- · Low-Level Waste Projections
- · Research and Development

This is the ninth report on the status of task initiatives as described in the Implementation Plan that DOE is undertaking to improve its management of low-level waste (LLW). This report covers the period from October 1, 1997 to December 31, 1997.

2.0 OVERVIEW

2.1 General Progress

Progress on completion of 94-2 Implementation Plan commitments continued during this quarter albeit at a slower pace. Two factors were primarily responsible for the slower pace. First, there have been competing priorities which have affected progress in some task areas. Secondly, the use of the LLW Disposal Facilities Federal Review Group and review teams for reviewing radiological assessments is a fairly new process which is not yet operating at an optimal level.

During this reporting period the Department completed two commitments, one overdue from the previous quarter and the other a year ahead of the Implementation Plan schedule. Four other commitments due during this reporting period were not completed.

Work continued on the resolution of comments received on the February 1997 draft of the revised Order on Radioactive Waste Management (DOE O 435.1) and its accompanying manual,

guidance, and technical basis. Work on the Manual included a review and comments from the Senior Review Panel of external experts employed to support this effort.

In the Radiological Assessments task area, the Savannah River Operations Office submitted the composite analysis for the E-Area Vaults and Saltstone Disposal Facilities to Headquarters for review. The Nevada Operations Office submitted the performance assessment/composite analysis for the Nevada Test Site Area 3 disposal facility. Reviews of radiological assessments continued or were initiated for the Los Alamos National Laboratory, the Oak Ridge Reservation, and the Savannah River Site. The LLW Disposal Facilities Federal Review Group identified team leaders and approved teams for conducting a number of the reviews.

Work in the Waste Projections and Research and Development task areas was essentially on hold pending availability of key personnel. Actions that were impacted by the unavailability of staff were the final review of the waste disposal capacity report and effort to re-assess the research and development task needs and develop a revised approach. Proposed completion dates for all of the overdue commitments will be addressed in the Quarterly Report for the period from January 1, 1998 through March 31, 1998 that will be submitted to the DNFSB by May 29, 1998.

2.2 Meetings with the DNFSB and Staff

2.2.1 Meetings During this Reporting Period

During this reporting period there were no face-to-face meetings between DOE management and the DNFSB to specifically address DNFSB Recommendation 94-2, nor were there any staff level meetings.

2.2.2 Meetings in Future Reporting Periods

The following interactions with the DNFSB or staff are anticipated during the next reporting period:

- A meeting will be held between DOE and DNFSB to discuss the progress and schedule for the revised *Radioactive Waste Management Order* and associated documents.
- A meeting will be held to discuss the status and plans for completing commitments in the 94-2 Implementation Plan.

3.0 SUMMLARY OF COMMITMENTS DUE IN THE CURRENT REPORTING PERIOD

The following table summarizes the status of commitments that were either due or completed during the current reporting period and overdue commitments. Appendix A provides a listing of all task initiatives committed to in the 94-2 Implementation Plan and their status, as reported in DOE's Safety Issues Management System (SIMS). Two indicators are provided in the first column of the following table. The first correlates with the commitment as numbered in the Implementation Plan. The second number corresponds to the numbering system used in SIMS.

Status of Task Initiatives: October 1, 1997 - December 31, 1997

<u>IP Task #</u> SIMS ID #	Title or Description	Due Date	Status
<u>VII.B.5.b.2</u> R94-02 030-011	Submit Savannah River Site Composite Analysis to Headquarters for Review.	09/30/97	Complete. The site submitted the composite analysis in October 1997; notification of DNFSB is pending.
VII.B.5.b.2 R94-02 030-012	Complete Headquarters' Review of Savannah River Site Composite Analysis.	12/31/97	Pending. Review team has been convened and review is underway. Proposed due date will be addressed in the Quarterly Report for the period from January 1, 1998 through March 31, 1998 that will be submitted to the DNFSB by May 29, 1998.
<u>VII.B.5.b.2</u> R94-02 030-001	Submit Los Alamos National Laboratory Composite Analysis to Headquarters for Review.	12/31/97	Completed. DNFSB was notified by April 3, 1997 letter that the composite analysis was included in the performance assessment.

IP Task # SIMS ID #	Title or Description	Due Date	Status
<u>VII.B.5.b.1</u> R94-02 029-002	Complete Headquarters' review of LANL Performance Assessment.	12/31/97	Pending. Being done in conjunction with composite analysis; review report in preparation. Proposed due date will be addressed in the Quarterly Report for the period from January 1, 1998 through March 31, 1998 that will be submitted to the DNFSB by May 29, 1998.
VII.B.5.b.2 R94-02 030-008	Complete Headquarters' Review of Oak Ridge Solid Waste Storage Area 6 Composite Analysis.	12/31/97	Pending. Review team has been convened and review is underway. Proposed due date will be addressed in the Quarterly Report for the period from January 1, 1998 through March 31, 1998 that will be submitted to the DNFSB by May 29, 1998.
<u>VII.B.5.b.2</u> R94-02 030-009	Submit Hanford Site Composite Analysis to Headquarters for Review.	12/31/97	Submittal date was impacted by a change in approach involving a more complex analysis. Proposed due date will be addressed in the Quarterly Report for the period from January 1, 1998 through March 31, 1998 that will be submitted to the DNFSB by May 29, 1998.

IP Task # SIMS ID #	Title or Description	Due Date	Status
<u>VII.B.5.b.2</u> R94-02 029-005	Submit NTS Area 3 Performance Assessment/ Composite Analysis to Headquarters for Review.	3/31/98	Pending. The performance assessment composite analysis was submitted to Headquarters in November; notification of DNFSB is pending.
VIII.B.1.b.2 R94-02 033	Issue Low-Level Waste Disposal Capacity Report, Revision 1	09/30/97	Pending. As of the end of this reporting period the report was in review. Proposed due date will be addressed in the Quarterly Report for the period from January 1, 1998 through March 31, 1998 that will be submitted to the DNFSB by May 29, 1998.
IX.B.3 R94-02 038 IX.B.4 R94-02 039	Determine Outstanding LLW R&D Needs Prepare Strategy to Address LLW R&D Needs	06/30/97 09/30/97	Pending. Following discussions with the DNFSB staff, it was decided that the R&D task area was not correctly focused on R&D important to disposal. DOE is reevaluating the tasks necessary to adequately address LLW R&D

^{4.0} TASK AREA STATUS

^{4.1} Systems Engineering

The Low-Level Waste Program Management Plan, outlining the programmatic strategies, policies, initiatives, and assumptions that form the basis for evolving to an integrated low-level waste program, was issued on March 31, 1997. This completed all of the Systems Engineering task initiatives in the Implementation Plan. The Department intends to revise the plan as necessary to provide the top-level direction for DOE in low-level waste management.

The Department prepared corrective action plans as a Systems Engineering task in response to the Complex-Wide Review. The Low-Level Waste Management Program continues to monitor implementation of the commitments made in the DOE-wide and site-specific corrective action plans.

4.2 Complex-Wide Review

The Final Complex-Wide Review Report was transmitted to the DNFSB on May 17, 1996. This completed all Complex-Wide Review task initiatives. DOE-wide and site-specific corrective actions in response to the Complex-Wide Review are being completed under the Systems Engineering task area.

4.3 Regulatory Structure and Process

The draft order, DOE O 435.1, Radioactive Waste Management, the accompanying manual, DOE M 435.1, Radioactive Waste Management Manual, guidance, and technical basis documentation were issued for DOE and DNFSB review on February 28, 1997. The draft Order includes overarching requirements for managing radioactive waste to protect the public, workers, and the environment, and to comply with applicable laws, regulations, and DOE directives. The draft Manual addresses essential management and implementation requirements for safe management of low-level waste and other waste types. The draft guidance documents include a number of products previously prepared as part of the implementation of DNFSB Recommendation 94-2 (e.g., performance assessment guidance documents, policy on management of waste generated as part of cleanup activities), portions of existing guidance documents, and newly-developed material. In issuing the draft Order, Manual, and guidance documents for review, DOE completed the Regulatory Structure and Process task initiatives in the Implementation Plan.

During this reporting period, most of the effort was focused on developing revised drafts of the Manual chapters and preparing initial drafts of guidance that matched one-for-one with the requirements in the Manual. The revised set of guidance was provided to select members of the Order Revision Team for cross-chapter review and integration, and additional work. There was also a review of an interim draft of the Manual by the Senior Review Panel of external experts. The Panel reviewed how previous comments on the Manual were incorporated and provided their input on further improvements.

During the next reporting period, the staff will continue to revise the guidance and to resolve issues identified through the process of guidance development. The Department expects to complete a second draft of the Order, Manual, and guidance documentation during the next reporting period and to distribute it for DOE and DNFSB review during April.

4.4 Radiological Assessments

During the current reporting period, radiological assessments in support of two commitments were completed and submitted to Headquarters. The Savannah River Operations Office submitted the Composite Analysis, E-Area Vaults and Saltstone Disposal Facilities, Revision 0 (WSRC-RP-97-311), completing an analysis that was due at the end of the previous reporting period. The composite analysis presents an evaluation of the potential future impacts to the public of the Saltstone Disposal Facility, the E-Area Vaults disposal facility, and other radiological sources that potentially add to the projected doses from the two disposal facilities. The Nevada Operations Office submitted the Performance Assessment/Composite Analysis for the Area 3 Radioactive Waste Management Site at the Nevada Test Site, Nye County, Nevada, Revision 2.0 (DOE/NV-491). The Nevada Test Site Area 3 performance assessment and composite analysis evaluates projected long-term performance of the Area 3 disposal facility relative to the performance objectives of DOE Order 5820.2A, as well as the potential off-site impacts from the disposal facility and other radioactive source terms that may add to the dose projected for the disposal facility.

A number of commitments due during this reporting period were not completed as scheduled. Submittal of the Hanford Site composite analysis, scheduled for December 31, 1997, is behind schedule. A re-assessment of the approach to the composite analysis led to a decision to perform a more complex assessment. The change in approach and the more complex assessment both contributed to the schedule slip. The reviews of radiological assessments have also been impacted, due principally to instituting a review process different than that envisioned when the 94-2 Implementation Plan was developed. Rather than using an established organization (the Peer Review Panel comprising contractors), the LLW Disposal Facilities Federal Review Group, comprising DOE representatives from Headquarters and sites, was formed to administer the reviews. For each radiological assessment, a review team composed of member(s) of the Group and others selected for their expertise is assembled to conduct the review. The fact that this is a new process plus the details of the process itself contribute to the delays in longer time frames for completing these reviews. A revised schedule for completing the radiological assessments and their reviews will be proposed to the DNFSB in the next quarterly progress report.

Although there have been slips in the schedules for completing reviews, the LLW Disposal Facilities Federal Review Group has been active in moving the reviews and review process forward. During this review period, the Group was provided a copy of the guide being prepared to direct the teams commissioned to conduct the technical reviews of the performance assessments and composite analyses. Comments were requested by early January.

The review team assembled to conduct an evaluation and develop a report on the *Performance Assessment and Composite Analysis for Los Alamos National Laboratory Material Disposal Area G* (LA-UR-97-85) continued its efforts. A draft report to be submitted to the LLW Disposal Facility Federal Review Group was being prepared as of the end of the reporting period. Following the review, the LLW Disposal Facility Federal Review Group will make a recommendation to the Deputy Assistant Secretary for Waste Management regarding acceptance of the document and issuance of a disposal authorization statement.

The LLW Disposal Facilities Federal Review Group also identified team leader candidates and initiated the selection of review teams for recently submitted composite analyses. Team leaders were confirmed and team member selection was completed for the Oak Ridge and Savannah River review teams in January. Team leaders were also identified for reviews of the Nevada Test Site and Hanford radiological assessments.

In the last reporting period it was projected that the final action on the Savannah River Site Saltstone Disposal Facility performance assessment would be completed during this reporting period. The remaining action was to document the resolution of an issue regarding compliance with the groundwater performance objective in the compliance evaluation and transmit the compliance evaluation to the site and the DNFSB. Resource constraints have hampered this effort, but as of the writing of this report, the compliance evaluation is undergoing final review for approval by the Deputy Assistant Secretary for Waste Management.

During the next reporting period Headquarters expects to receive comments from the LLW Disposal Facilities Federal Review Group on the performance assessment and composite analysis review guidance document. A revised draft of the document reflecting resolution of the comments will be prepared during the reporting period. The LLW Disposal Facilities Federal Review Group plans to meet to review the team's report and make a decision on the acceptability of the Los Alamos performance assessment/composite analysis, and to approve a review team for the Hanford Site composite analysis. The Richland Operations Office expects to submit the Hanford Site composite analysis for review. A review team will be selected for conducting the review of the Nevada Test Site Area 3 performance assessment/composite analysis and the review will be initiated. Review team activities will continue for the Savannah River Site and Oak Ridge Reservation radiological assessments with review team reports projected for the following quarter.

4.5 Low-Level Waste Projections

Previously, DOE reported the results of a disposal capacity analysis based on volumetric capacity and projections of the waste (September 1996). A revision to the report to include consideration of the radiological constraints of the DOE disposal sites was a September 1997 deliverable in the Implementation Plan. During the last reporting period, data on the waste characteristics, including projected radiological characteristics, were compiled and an analysis of the capacity relative to these wastes was performed. The results of the data and analysis have been compiled into a draft report, review of which has been impacted by resource constraints at Headquarters. A revised completion date will be proposed to the DNFSB.

4.6 Research and Development

The previous status reported that DOE had begun a reassessment of the research and development task area to better focus the effort on addressing the concerns originally identified by the DNFSB in Recommendation 94-2. In that report it was projected that a revised approach would be developed during this reporting period. Resource constraints, specifically, the

availability of key personnel to direct this effort, prevented significant action from being taken on this activity. A revised approach and completion dates will be proposed to the DNFSB.

Appendix

Safety Issues Management System

Report for Recommendation 94-2

October 1, 1997 to December 31, 1997

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Report - Key Com

Recommendation # R94-02 Conformance with Safety Standards at Low -Level Nuclear Waste Disposal Sites

R94-02 R94-02 Rec # R94-02 R94-02 R94-02 R94-02 K94-02 R94-02 .kesp. Org. R94-02 Cmit # 200 2000 WW2 2000 TON . 002 002 002 200 M Z 900 8 897 002 100 200 0000 0003 Act # The LLWMTTG will establish a regular report formal and provide quarterly reports to the Board on progress on the The LLWMTG will establish a regular report format and The LL WMTK will establish a regular report formal and provide quarterly reports to the Board on progress on the The LLVVIIIG will establish a regular report formal and The LL WWITG will establish a regular report formal and provide quarterly reports to the Board on progress on the The LLWMTC will establish a regular report formal and commitments described in this implementation Plan. commitments described in this Implementation Plan provide quarterly reports to the Board on progress on the commitments described in this Implementation Plan commitments described in this Implementation Plan provide quarterly reports to the Board on progress on the The I.I. WAITG will establish a regular report format and provide quarterly reports to the Board on progress on the The LLWATEG will establish a regular report formal and progress on the commitments described in this Implementation Plan provide quarterly reports to the Board on progress on the The Project Mainagement Plan (PJNIP) will be updated to manage the task initiatives and commitments described in this commitments described in this Implementation Plan commitments described in this implementation Plan commitments described in this Implementation Plan in this Implementation Plan. reports to the Board on progress on the commitments described The Low-Level Waste Management Task Group (L.L. WMTG) Implementation Plan. will establish a regular report format and provide quarterly Commitment Statement Resp. Mgr. Mr. Martin Letourneau (January - March 1998) Quarterly Progress Report Quanterly Progress Report (October - December 1997) Quarterly Progress Report. (July - September 1997) Quarterly Progress Report. (April Quarterly Progress Report (Jamuary - March 1997) Quarterly Progress Report (October-December 1996). Quarterly Progress Report (July-September 1996). Updated Project Wanagement Plan (PjWP). (April-June 1996). Quarterly Progress Report Quarterly Progress Reports. June 1997) aldereviledi DR Contact Mr. Michael Worley IP dated 4/96. Commitment 181.C.2, pg. 111-10 IP dated 4/96 Commitment 111.C.2, pg. 111-10 Commitment III.C.1, pg. 111-9 1111.C.2, pg. 111-10 III dated 4/96. III.C.2, pg. 111-10 Commitment III.C.2, pg. III-10 1111.C.2, pg. 111-10 IP dated 4/96. Commitment IP dated 4796 III.C.2, pg. III-10 Commitment III.C.2, pg. III-10 IP dated 4/96 IP dated 4/96 Commitment IP dated 4/96, 111.C.2, pg. 111-10 Commitment IP dated 4/96 IP dated 4/96, egmeneje M Open Open Complete Complete Complete Complete? 1 1/2 1/1 997 7/3 1/1997 5/ 1/1997 21711997 Complete 3661/11/11 Complete Complete Complete Open 7/29/199/ 6/27/1996 Report is under review. Report is under review. Ref: Alm/Conway its dated Ref: EM97-03482 11/21/97 Ref: EM97-00433 delivered 7/29/96. April through June 1996 Quarterly Report for period of Beard Contact Mr. Steve Stokes Descriptive Status quanter calendar year end of each days after the Quarterly, 30 04/30/1998 3661/15/10 £6661/112/01. Due Date 7773111997 A6661/082/PO 701/31/1997 07/31/1996 9661/15/01

Summary Recommendation Report - Key Commitment and Action Information

Recommendation # R94-02

Conformance with Safety Standards at Low -Level Nuclear Waste Disposal Sites

Rec # R94-02 R94-02 K04-02 R94-02 R94-02 R94-02 R94-02 R94-02 K94-02 200-b6> 194-02 esp. Org. Com (%) 700 900 **@13** 210 MIM 110 600 Act # engineering evaluation to accomplish the mission of the LLW Independent evaluations are completed for the 38 facilities and Site-specific corrective action plans prepared as a result of the Complex-Wide Review constitute the initial site improvement A complex-wide corrective action plan will be prepared to sites for the exclusive disposal of DOE LLW. A study will be performed to evaluate the salety merits and what functions (activities) are necessary to accomplish the system requirements including goals and assumptions. The Department will compile and document LLW program The Department will complete and document a systems an assessment report for these sites is issued Independent evaluations are completed for the 38 facilities and sites, beginning June 1, 1995. instrument is prepared. Individuals are trained on survey contents and survey methods, and perform surveys at their The Department will prepare and maintain a Program demerits of using a privately operated facility away from DOE requirements and identify any additional requirements and The Department will analyze the requirements to determine an assessment report for these sites is issued I.L.W siles to be surveyed are identified and a survey Working Group identifies and selects the Working Group develop the complex-wide review process. The Assessment The Assessment Working Group members are selected to activities. correct the vulnerabilities common across the complex. Management Plan functions needed to integrate the program. Assessment Teams to perform evaluations of the 32 facilities. Commitment Statement Resp. Nigr. Mr. Martin Letourneau Final Report. Preliminary Report. LLLW Program Management Plan. engineering evaluation report DOE LLW management system action plans Initial site-specific corrective linitial complex-wide corrective Privatization guidelines. LLW system description LLW program requirements document. Completed site surveys Teams are assigned. Assessment Working Group and action plan. Working Group Assessment and Meds of Slaubivibul Deliverable DR Contact Mr. Michael Worley Commitment V.B.2, pg. V-12 Commitment V.B.I. pg. V-12 IP dated 4/96. V.B.3, pg. V-12 IP dated 4/96, IP dated 4/96, IV.B.6.b.2, pg. IV-6 IV.B.3, pg. IV-4 IV.B.1. pg. IV-3 IP dated 4/96, IP dated 4/96 Commitment IV.B.6.b.1, pg. IV-6 IIP dated 4/96 IV.B.S, pg. IV-S Commitment IV.B.4, pg. IV-4 Commitment IV.B.2, pg. IV-3 Commitment IP dated 4/96. IP dated 4/96 Commitment Commitment IP daled 4/96, Commitment IP dated 4/96, Commitment IP dated 4/96, Reference Complete Complete Complete Complete Complete Complete Complete Complete Complete? 11/30/1999 Complete 6/30/1999 Complete 4/12/1996 3/4/1996 7/3 1/1 99% 3/2 8/1 99% 3/3 1/1997 10/7/1996 Complete 4/26/1996 10/2/1996 Board on 4/16/96. CWR results were briefed to the EM-30 letter dated 3/4/96. delivered to the Board in an Complete membership options which was specified as part of Task IV.B.4. when considering disposal and criteria for sites to use The PMP includes the guidance Management Order is revised the SDD once the Waste the SDD states intent to update Deliverable letter of 10/7/96 for Beard Contact Mr. Steve Stokes Descriptive Status · Due Date 05/17/1996 04/12/1996 11/30/1995 02/29/199% 07/31/1996 966 [7] 5720 03/31/1997 26661/002/120 2661/02/90 966 1/05/5/60 9661/08/60

Data Current as of: 5/ 1/98

S-3.1 Contact: Debra Abraham @ (202) 586-1706

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Conformance with Safety Standards of Low-Level Nuclear Waste Disposal Sites

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Board Contact Mr. Steve Stokes

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Resp. Mgr. Mr. Manin Letoumeau

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Summary Recommendation Report - Key Commitment and Action Information

R94-02 Conformance with Safety Standards at Level Nuclear Waste Disposal Sites

DR Contact Mr. Michael Worley

Board Contact Mr. Steve Stokes

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		9661/1 /01	2-11A		criteria and design and operational requirements derived from the performance assessments remain viable, as well as provide criteria for determining when revisions to the performance assessments are necessary.			
9.661/02/60		alalqmoD	IIP dated 4/96, Commitment VIIIB.4.b.1, pg.	and sing source guidance of the common of th	The guidance on performance assessment maintenance program will specify criteria for periodic review of the performance assessments to ensure that the waste acceptance		4zo	K64:03.
		9661/1 /11	Commitment VII.B.3, pg. VII-7	criteria for fleadquanters review	Feadquarier's review of the composite analyses and the criteria for evaluating the acceptability of the analyses.			. isau. Uigitgi
2661/18401		4/30/1996	11P dated 4/96,	Description of the process and	nol sessong sill to notifice description of the green for		_ 970 .	K64-05.
9661/18/SO		ələlqmioD	11 dated 4/96, Commitment 3-11V .gq , S.A.IIV	Cuidânce for conducting composite analyses.	Doll will prepare and provide to the sites a document of the providing guidance on the preparation of the composite says.		S70	K64-05
- Control of the cont	until the end of February consistent with the Order revision effort. A letter to the Board informing them of the defened delivery was sent on 2/2/97. Ref. FM96-04920.	£66¶/£ /£						
	Deliverable sent to the Board on 3/7/97 (Ref. EM97-0832). This deliverable was deferred	2/28/1997	IP däled 1/96, Commilment VII.B.I, pg. VII-5	Policies sódressing cillical assumptions and clarifications for performance assessments.	The Department will issue interim direction addressing the critical aspects of conducting a performance assessment.		620	_Z0-96X
	diversified the PRP by establishing a federally-staffed group to review the Board was assessments. The Board was notified of these actions in a 4/30/97 letter from EM-1.							
4661/87/20	Included with draft Order 435.1 documents which were delivered to the Board on 2/28/97. In response to the Board's IP revision acceptance condition, Department	ລາລໂຖດຄວະນັ	11: 42:44. Comminient VI.B.7, pg. VI-10	Radiological assessment approval process modified and formally developed for inclusion in Radioactive Waste Management Order revision.	The approval process for radiological assessments (i.e., performance assessments and composite analyses) will be formalized in order to make the process consistent with the commitments made in this Implementation Plan and will become part of the Order revision for Radioactive Waste Management.		EKO	K&4-05
	. 79/82/2 no 1,28/97.	\$\\$8\\$661	ol-1v .gq ,b.a.lv	essential LLV management requirements.	developed, and necessay documentation will be provided in time to support the Radioactive Waste Management Order revision.			
	contained States Implementation guidance delivered to the Board with	Complete Complete	Kelerence Ip daked 1/96. Commitment	Deliverable Implementation guidance and rechnical standards to support	Committee of statement of requirements of requirements for LLW management, implementation guidance will be	AN DATE	077 	. ZD-26H
L	220/2/20 2238/28/2929	(0 = A = 1] area = 2)	22222000	-1-1	Omarmatato Damarathamana D	₩ 12A	I W Come D	# 29%

Summary Recommendation Report - Key Commitment and Action Information

Recommendation # R94-02 Conformance with Safety Standards at Low -Level Nuclear Waste Disposal Sites

Kesp. Org. EM Resp. Nigr. Mr. Manin Letoumeau DR Contact Mr. Michael Worley Board Contact Mr. Steve Stokes

R94-02	R94-02	R94-02	R94-02	R94-02	R94-02	R94-02	
- P. 29	. 620			029	029	.020	
98	800	902	993	96 2	[BB]		Act W
Siles with LLW disposal facilities operating finder DOE Order 5820.2A will prepare performance assessments in accordance with the requirements of the Order.	Sites with LLW disposal facilities operating under DOE Order \$820.2A will prepare performance assessments in accordance with the requirements of the Order.	Sites with LLW disposal facilities operating under DOE Order \$220.2A will prepare performance assessments in accordance with the requirements of the Order.	Sites with LLW disposal facilities operating under DOE Order \$820.2A will prepare performance assessments in accordance with the requirements of the Order.	Sites with LLVV disposal facilities operating under DOE Order 5820.2A will prepare performance assessments in accordance with the requirements of the Order.	Sites with LLW disposal facilities operating under DOE Order 5820.2A will prepare performance assessments in accordance with the requirements of the Order.	Sites with LLW disposal facilities operating under DOE Order \$820.2A will prepare performance assessments in accordance with the requirements of the Order.	Committment Statement performance assessment results into waste acceptance criteria. The Standard Review Plan will include technical criteria for the findings that must be made to determine that a performance assessment is technically acceptable.
Complete the Headquarters technical review and documentation of the NTS Area 3 Radioactive Waste Management Site performance assessment.	Submit NTS Area 3 Radiosotive Waste Management Site performance assessment (including composite analysis) to Bleadquarters for review.	Complete the Headiquarters technical review and documentation of the NTS Area 5 Radioactive Waste Management Site performance assessment.	Complete the Headquarters technical review and documentation of the INEL Radioactive Waste Management Complex performance assessment.	Complete the Headquarters technical review and documentation of the LANL TA-54, Area G, performance assessment.	Submill LANL TA-54, Airs G, performance assessment to Headquarters for review.	Submit performance assessment to Headquarters for review; complete the Headquarters technical review and documentation.	Deliverable
IP dated 4/96. Commitment VII B.S.b.1, pg. VII-9	IP dated 4/96, Commitment VII.B.S.b.1, pg. VII.9	IP dated 4/96, Commitment Vil.B.S.b.1, pg. Vil.9	IP dated 4/96, Commitment VII.B.S.b.1, pg. VIII-9	IP dated 4/95. Commitment VII.B.S.b.1, pg. VII.9	If dated 4/95, Commitment VII.B.S.b.I, pg. VII-9	IP däded 4/96, Commitment VII.B.S.b. 1, pg. VII-9	Reference VII-8
Open	Open	Complete	Complete	Open	Complete A/3/1997	Open	Complete?
	Completion letter is being drafted.	PA secepted with conditions.	PRP recommended approval at July meeting. PA accepted with conditions.	Completton delsyed. Late letter being developed.	Ref: EM97-01409.	The last PA reviewed by November 30, 1998.	Descriptive Status
11/30/1998		08/3171996	08/31/1998	12/31/1997	7731/11897	11/30/1998	Dwe Date

Summary Recommendation Report - Key Commitment and Action Information

Recommendation # R94-02 Conformance with Safety Standards at Low -Level Nuclear Waste Disposal Sites

ikesp. Org.	E M		Resp. Nigr. Mr. Martin Letourreau	DR Comtact	d Wr. Wichael Worley		Board Contact Mr. Steve Stokes	ù
Rec #	Cmt #	Act #	Committment Statement Statement Statement Sites with LLW disposal facilities operating under DOE Order 5820.2A will prepare performance assessments in accordance with the requirements of the Order.	Deliverable Submit ORNI Solid Waste Storage Area-6 performance assessment to Headquanters for review.	Reference IP dated 4795, Commitment VII.B.5.b.1, pg.	Complete?	Descriptive Status PA submission was reported in a letter to the Board on October 16, 1997.	Due Daite
R9A-02	029	00	Sites with LLW disposal facilities operating under DOE Order \$20.2A will prepare performance assessments in accordance with the requirements of the Order.	Complete the Pleadquarters technical review and documentation of the ORAL Solid Waste Storage Area-6 performance assessment.	In deled 1/96. Commitment VII.B.S.b.I, pg. VII.9	9/30/1997 Open	Completion delayed, late letter being developed.	3661/12/10
R94:02		009	Sites with LLW disposal facilities operating under DOE Order—5320.2A will prepare performance assessments in accordance with the requirements of the Order.	Complete the Headquarders technical review and documentation of the Hanford 200-W Burist Chound performance assessment.	IP dated 4/96, Commitment VIII.B.S.b.1, pg. VII.9	Complete		
R94-02	029	916	Sites with LLW disposal facilities operating under DOE Order \$20.2A will prepare performance assessments in accordance with the requirements of the Order.	Submit the Haniford 200-E Burial Ground performance assessment to Headquanters for review.	IP dated 4/96, Committement VII.B. S. b. 1, pg. VII-9	Complete		08731111996
R94-02	-029	011	Sites with LLVV disposal lacilities operating under DOE Order 5820.2A will prepare performance assessments in accordance with the requirements of the Order.	Compilete the Headquarters lechnical review and documentation of the Hanford 200-E Burial Ground performance assessment.	IP dated 4/95, Committment VII.B.5.b.1, pg. VII-9	Complete	(Ref. EM95-04214) Board was modified of a delay by am EM-1 letter dated 4/30/97 (Ref. EM96-04948).	04/30/1997
R9A-02	029	2	Sites with LLV dispossil facilities operating under DOE Order 520.2A will prepare performance assessments in accordance with the requirements of the Order.	Complete the Headquarters technical review and documentation of the SRS Saltstone Disposal Facility performance assessment.	IP disted 4/96, Committeem VII.B.S.b.1, pg. VII-9	Complete 7/31/1996	PA found technically acceptable except for acceptable except for groundwater smallysis - more analysis is being requested. Formal closure with the Board will be proposed when the additional groundwater analysis information is received and reviewed.	
RSA-02	- 030		The sites will prepare a composite analysis.	Submit composite analyses to Headquarters for review; complete the Headquarters technical review and documentation.	IP dated 4/96, Commitment VII B.S.b.2, pg. VII-9	Openi	The last composite analysis reviewed by December 31, 1999.	12/31/1999
R94-02	989	901	The sites will prepare a composite amalysis.	Submit LANL TA-54, Area G, composite analyses to Headquarters for review.	IP dated 4/95, Commitment VII.B.5.b.2, pg. VII-9	Complete	RēC EM97-01409	72/31/18/997
Data Cu	Current as of:	of: 5/1/98	98	S-3.1 Contact: Debra Abrai	raham @ (202) 586-1706	1706		Page # 6

Summary Recommendation Report - Key Commitment and Action Information

Recommendation # R94-02 Conformance with Safety Standards at Low -Level Nuclear Waste Disposal Sites

R94-02	R94-07	R94-02	K9A-UZ	R94-02-	R94:02	R94:02	N94-02	Ree #	lesp. Otz.
		٥٤٩	030	- 0300			93%	C mark	· E
ODD		8.00	8	800	. (800	EDO	002	Act W	
The siles will prepare a composite analysis.	The siles will prepare a composite analysis.	The siles will prepare a composite analysis.	The sites will prepare a composite analysis.	The sites will prepare a composite analysis.	The sites will prepare a composite analysis.	The sites will prepare a composite analysis.	The sites will prepare a composite analysis.	Commitment Statement	Resp. Mgr. Mr. Marin Letournesu
Submitt the Hamford 200-E & W Burial Grounds & Environmental Restoration Disposal Facility composite analysis to Headquarters for review.	Complete the Headquarters technical review and documentation of the ORNL Solid Waste Storage Area-6 composite analyses.	Submit the ORNI. Solid Waste Storage Area-6 composite analyses to Ileadquarters for review.	Complete the Headquarters technical review and documentation of the NTS Area S Radiosctive Waste Management Site composite analyses.	Submit the NTS Area S Radioactive Waste Management Site composite analyses to Headquanters for review.	Complete the Headquarters technical review and documentation of the INEL Radioactive Waste Management Complex composite analyses.	Submit INEL Radioactive Waste Memagement Complex composite analyses to Readquarters for review.	Complete the Headquarters technical review and documentation of the LANL TA-54, Area G, composite analyses.	Deliverable	· DR Contact
IP dated 4/96, Commitment VII.B.S.b.2, pg. VII-9	IP dated 4/96, Commitment VII.B.S.b.2, pg. VII-9	IP dated 4/96. Commitment VII.B.S.b.2, pg. VII-9	IP dated 4/96, Committeent VII.B.S.b.2, pg. VII.9	IP dified 4/96, Commitment VII.B.S.b.2, pg. VII-9	IP daicd 4/96, Commitment VII.B.S.b.2, pg. VII-9	IP dated 4/95, Commitment VIII.B.S.6-2, pg. VIII-9	IP daied 4/96; Commitment VII B.S.b.2, pg. VII-9	Reference	e Mr. Michael Worley
Open.	O pë ni	Complete 9/30/1997		Open	Open on	Open	C) Piers	Complete?	
RL reported in a 10/15/97 letter that this commitment will not be met until 3/31/98. To be addressed in late letter.	IIQ fèdeiai réviév lesm formed. To be addressed in late letter:	CA submission was reported in a letter to the Board on October 16, 1997.			Sustans ainkano win	Completion delayed, late tetter being developed.		Descriptive Status	Board Contact Mr. Steve Stokes
	12731/1997	7091405160	1273171999	. 66681.00\$7600	04/30/1998	0173171998	8661/16250	Due Date	.

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Summary Recommendation Report - Key Commitment and Action Information

Recommendation # R94-02

Mr. Martin Letourneau

Kesp. Org.

Conformance with Safety Standards at Low-Level Nuclear Waste Disposal Sites

.Rec # R94-02 R94-02 R94-02 R94-02 R94-02 K94-02 R94-02 Z01-1963 Cont & 031 031 ICO 180 031 ٥٥٥ 030 004 000 2000 001 012 011 010 Act W the disposal authorization statement to document any limits on analysis) will be reviewed and form the basis for issuance of The complete radiological assessment (e.g., PA and composite design or operations for the facility. analysis) will be reviewed and form the basis for issuance of The complete radiological assessment (e.g., PA and composite The complete radiological assessment (e.g., PA and composite The complete radiological assessment (e.g., PA and composite design or operations for the facility. The siles will prepare a composite analysis The sites will prepare a composite analysis The sites will prepare a composite analysis design or operations for the facility the disposal authorization statement to document any limits on design or operations for the facility the disposal authorization statement to document any limits on analysis) will be reviewed and form the basis for issuance of design or operations for the facility. the disposal authorization statement to document any limits on amalysis) will be reviewed and form the basis for issuance of the disposal authorization statement to document any limits on amalysis) will be reviewed and form the basis for issuance of The complete radiological assessment (e.g., PA and composite Commitment Statement Resp. Mgr. Issue disposal authorization Issue disposal authorization issues or concerns for the NTS statement or direction to resolve Radioactive Waste Management issues of conceins Management Site. issues or concerns for the NTS statement or direction to resolve Issue disposal authorization statement or direction to resolve TA-S4, Area G issues or concerns for LANL statement or direction to resolve Issue disposal authorization statement or direction to resolve Issue disposal authorization Facility composite analysis Vaulus and Salustone Disposal Area 3 Radioactive Waste Management Site Area 5 Radioactive Waste issues or concerns for INEL documentation of the SRS E-Area technical review and Complete the Headquarters Weiver to teriew. Facility composite analysis to and the Saltstone Disposal Submit the SRS E-Area Vaults Env. Rest. Disp. Fac. composite 200-E & W Burial Grounds & documentation of the Hanford amallysis. pur waitan iranimulasi Complete the Readquarters Deliverable DR Contact Mr. Michael Worley VII.B.S.b.3, pg.: VII-9 VII.B.S.b.3, pg VIII-9 IP dated 4/96, VII.B.S.b.3, pg Commitment | VII.B.5.b.2, pg @-111V Commitment Commitment VII.B.S.b.3, pg IP dated 4/96, IP dated 4/96. Commitment IIP dated 4/96, Commitment IIP dated 4/96. VIII.B.S.b.3, pg. Commitment IP dated 4/96 VII.B.5.b.2, pg HP dated 4/96, VII.B.5.b.2, pg IP dated 4796, Commitment Reference Open Open Open Open Open Complete? Open Open Complete 10/30/1997 Status unknown The last disposal authorization statement by January 31, 2000 Federal review leam formed. To be addressed in late letter Completion letter being drafted quarterly report (cmt#002, ac(#006) CA delivery reported in the Board Contact Nir. Sieve Stoke: Descriptive Status 2661115150 02/28/1999 0002715710 05/31/1998 04/30/1998 01/31/2000 6661/08/60 Mus Dake 12/31/1997

Summary Recommendation Report - Key Commitment and Action Information

DR Contact Mr. Michael Worley

Board Contact Mr. Steve Stokes

Resp. Mgr. Mr. Manin Letoumeau

Resp. Org. EM

Recommendation # R94-02 Conformance with Safety Standards at Low-Level Nuclear Waste Disposal Sites

2) \$26-1706	2) 88A 129A		alham @ (202) 52	S-3.1 Contact: Debra Abr	5/ 1/98	of: 5/1	Data Current as of:	
Complete —— Draft report was discussed with Board Staff 8/1/96. A	Complete	<i>a</i>	Ommiment VIII B. 3 no VIII-5	Evaluation and strategy for improvements to LLW minimization.	A survey will be conducted to determine the common LLW generating activities at major DOE sites, and identify practices, procedures, policies and techniques that are effective in		023	R94-02
12/26/1996	12/26/1996		VIII.B.2, pg. VIII-4	Documentation.	waste disposal capacity (Task VIII.B. I), a DOE low-level waste projection program will be developed.			
Complete	Complete		II ⁹ dated 4/96. Commitment	DOE Low-Level Wasie Projection Program	Based on low-level waste inventory and projections information and the survey of current and planned low-level		O 34	R94-02
			VIII-0		utilizing pathway analysis modeling techniques. The radiological capacity and projection will be contained in the first revision of the disposal capacity report as consideration of radiological source terms are reflected in the radiological assessments.			
7/3 / 1996 (It is not expected to be Open May, 1992.	7/3 / 1996 Opën		II ⁿ dated 4/95, Cmt. VIII.B.I.b.2, pg.	Low-Level Wasie Disposal Capacity Report, Revision 1.	Currently svallable and plainined baselline radiological capacity will be determined by analyzing site environmental data and		033	R94-02
Complete	Complete		IP dated 4/96, Cmit. VIII.B.1.b.1, pg. VIII4	Low-Level Waste Disposal Capacity Report, Revision 0.	Capacity, as used in this implementation Plan, addresses the quantity of both volume and radiomuclide inventory that can be accepted at a disposal facility. The initial LLW disposal capacity report will only include information on volumetric capacity.		032	R94-07
Open Status unknown.	Open		IP dated 4/96. Commitment VII.B.S.b.3, pg. VII-9	Issue disposal authorization statement or direction to resolve statement or direction to resolve issues or concerns for the Savannah River Saltatone Disposal Facility.	The complete radiological assessment (e.g., PA and composite analysis) will be reviewed and form the basis for issuance of the disposal authorization statement to document any limits on design or operations for the facility.	000	. D. S. D.	R94-02
Open Statius unknown.	Open		IP dated 4/9%. Commitment VII.B.S.b.3, pg. VIII-9	Issue disposal authorization statement or direction to resolve issues or concerns for the Savannah River E-Area Vaults.	The complete radiological assessment (e.g., PA and composite analysis) will be reviewed and form the basis for issuance of the disposal authorization statement to document any limits on design or operations for the facility.	OGS	- 031	R94-02
Open	Open		IP asied 4/96, Commitment VII.B.S.b.3, pg. VII.9	Issue disposal authorization street or direction to resolve issues or concerns for the Hamford 200-E Burisl Grounds.	The complete radiological assessment (c.g., PA and composite analysis) will be reviewed and form the basis for issuance of the disposal authorization statement to document any limits on design or operations for the facility.	7000	0 0 1	R94-02
Open	Open		IP dated 4/96. Commitment VII.B.S.b.3, pg. VII.9	Issue disposal authorization statement or direction to resolve issues or concerns for the Hanford 200-W Burial Grounds.	The complete radiological assessment (c.g., PA and composite analysis) will be reviewed and form the basis for issuance of the disposal authorization statement to document any limits on design or operations for the facility.	000%	031	R94:02
Complete? Descriptive Status	Complete? Open		Reference IP dated 4795, Commitment Vil. B. 5.b.3, pg. Vil. 9	Deliverable Issue disposal authorization statement or direction to resolve issues or concerns for the ORNL Solid Waste Storage Area-6.	W Committee of the committee of Statement (e.g., PA and composite analysis) will be reviewed and form the basis for issuance of the disposal authorization statement to document any limits on design or operations for the facility.	Act #	(Const &	Rec # R94-02
			0		AND THE RESERVE OF THE PROPERTY OF THE PROPERT	1		:

Summary Recommendation Report - Key Commitment and Action Information

Recommendation # 1894-02 Conformance with Safety Standards at Low-Level Muclear Waste Disposal Sites

sch. Dig. Hill Martin Letourneau Dig Continet Mr. Michael Worley Board Contact Mr. Steve Stokes

4661/08/60	Repond delayed. Revised approach to be addressed in layer better.		.p444 baled 41 Comminment 6-XI .gq ,4.8.XI	Straicey to address outstanding L. W technical and R&ID needs.	A comprehensive strategy for meeting outstanding LLW RAID needs will be developed for the LLW Management Task Group. The strategy will be developed for inclusion, as appropriate, in the LLW Program Management Plan.		_ 6 20	K64-05
	developed. To be addressed in late letter.		8-XI .30 ,E.A.XI	·	analysis) and use this as a sercen of the needs identified, in task are being addressed, these N.E.Y. In eases where R&D needs are being addressed, the wangement will be documented and provided to the U.L. wateragement with recommendations on how to assimilate their program with recommendations on how to assimilate their			
L661/0E/20	Report delayed. Revised approach to LLW R&D to be	Open	The dated 4/96;	Identification of outstanding R&D needs.	systematic crosswalk between needs and activities (gap		032	K64-05
		4661/81/9		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ملية على المراكب المر		@&#</td><td>GM TM</td></tr><tr><td></td><td></td><td></td><td>Commitment 1X.E3.2, pg. 1X-5</td><td></td><td>Implementation Plan task groups, and with input from other DACE-wide R&D or technology development programs.</td><td></td><td></td><td></td></tr><tr><td></td><td>KGE EMBY-01721</td><td>sisiqmoD</td><td>16 dated 4/96,</td><td>LLW RAID needs statement.</td><td>LLW R&D needs will be identified by the RDTT, other 94-2</td><td></td><td>LEO</td><td>K64:05</td></tr><tr><td></td><td>resubmitted along with the needs assessment on 4/12/1/6.</td><td>\$661/08/9</td><td>Commitment DX.B.1, pg. 1X-4</td><td>R&D scivities esuslog for initial needs identified by the Bosed.</td><td>where results are applicable to LL.W management program improvements.</td><td></td><td></td><td></td></tr><tr><td> \$66 1/08/90</td><td>zsw noisiav bazivaA</td><td>sisiqmoD</td><td></td><td>Preliminary LLW management</td><td>zoitividas Clau ozodi Vilinobi od boloubnoc od Iliw yoviuz A</td><td></td><td> 980</td><td>K64:05</td></tr><tr><td></td><td>LLV minimization vas sent to the Board on 12/26/96.</td><td>9661/08/8</td><td></td><td></td><td>reducing LLL.VV</td><td></td><td></td><td> -</td></tr><tr><td>oded ond</td><td>endade svidginseal</td><td>Complete?</td><td>eonereleal</td><td>sldarsvilsQl</td><td>Committee Statement</td><td>% DD/A</td><td>wim)</td><td>% osA</td></tr></tbody></table>	