

UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON. D. C. 20555

89001771

FEB 0 9 1993

MEMORANDUM FOR:

B. J. Youngblood, Director

Division of High-Level Waste Management/NMSS

J. J. Linehan, Deputy Director

Division of High-Level Waste Management/NMSS

FROM:

R. L. Ballard, Chief

Engineering Branch

Division of High-Level Waste Management/NMSS

SUBJECT:

NEWLY FORMED NATIONAL ACADEMY OF SCIENCES COMMITTEE ON

REMEDIATION OF BURIED AND TANK WASTE

The first meeting of the newly formed National Academy of Sciences (NAS) Committee on Remediation of Buried and Tank Waste was held on January 6-7, 1993, at the NAS Georgetown facility. The Committee is an outgrowth of discontinuance of two Panels of the Board on Radioactive Waste Management that dealt separately with Hanford (HNL) and Idaho (INEL) Waste issues. The new Committee is being chaired by R. Budnitz and the NAS Staff officer is Bob Andrews. The stated mission of the 15-member Committee is to study the issues of buried and tank radioactive wastes at relevant Department of Energy's (DOE) nuclear weapons facilities from a national and integrated perspective.

The Committee was reportedly organized at the request of DOE, and the first meeting was structured by DOE primarily to provide detailed briefings of the status of the nuclear waste clean-up efforts at HNL and INEL. A copy of the initiating letter and meeting agenda, as well as Committee membership, is enclosed. A number of observations of general interest follow:

- The DOE program objectives were introduced by R. Pat Whitfield, Deputy Assistance Secretary for the Environment, who provided an extended discussion of the overall clean-up program.
- While the problems involve radioactive materials, the principal focus of attention by DOE and the Committee appear to relate to the CERCLA and RCRA statutes. Tri-Party remediation agreements have been made with EPA and the State at both sites. The agreements are for a 30-year goal (2019) for clean-up of all contaminated sites with the objective of removing the facilities from the National Priority List upon conclusion.
- The Tri-Party Agreements at both sites were initiated as part of DOE's Environmental Restoration program. However, residual safety issues at HNL (primarily H₂, Ferrocyanide, and tank overheating) resulted in temporary reassignment of that program back to the Waste Management program (under John Tseng) until safety issues are resolved.

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The Environmental Restoration Budget reflects substantial growth since its inception:

1988 - \$98 million 1990 - \$400 million 1992 - \$1.2 billion 1993 - \$1.8 billion

A point of discussion related to the high costs of government clean-up (\$78 per hour (loaded) compared to \$30 per hour for private industry). DOE attributed most of the high costs to greater oversight of the programs. (A similar high hourly cost was noted by the TRB at the Yucca Mountain site).

The environmental restoration programs at both sites will be using a systems engineering approach. However, INEL's program appeared to be much further along than is the program at HNL, based on the content of the various presentations.

 The states of Idaho, Washington, and Oregon were represented at the meeting, and Tony Mesolina of Washington State actively participated. Ray Clark of EPA was also in attendance.

The Committee's closing discussion related to its basic charter. DOE wanted the Committee to focus on a peer review or overview of the restoration program, and to avoid the role of a technical consultant. The Committee on the other hand, expressed reservations about program review from a policy perspective, and indicated its preference, based on the composition of the Committee membership (scientists and engineers), to provide technical oversight. The matter was not resolved during the meeting.

The Committee is scheduled to meet quarterly, and tentative schedules were established. There appears to be little or no need for active involvement on the part of the NRC, based on the results of the meeting. However, the great deal of technical information that will be presented by DOE provides an excellent opportunity for the technical staff to become familiar with the waste remediation programs, and related problems that we may need to deal with in the future. Consequently, staff participation in selected future meetings as observers would appear to be beneficial.

Viewgraphs of DOE presentations related to the HNL and INEL waste clean-up programs are available for those who have an interest.

R. L. Ballard, Chief /S/ Engineering Branch

Division of High-Level Waste Management/NMSS

Enclosure: As stated

cc: R. Bernero

W. Brach, LLW HLWM Branch Chief

ef P.Nair(CNWRA)

J. Russell(CNWRA) HLGE Section Leaders
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Division of High-Level Waste Management/NMSS

Enclosure: As stated

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J. Russell(CNWRA) HLGE R/F HLGE Section Leaders

NATIONAL RESEARCH COUNCIL

COMMISSION ON GEOSCIENCES, ENVIRONMENT, AND RESOURCES

2101 Constitution Avenue Washington, D.C. 20418

BOARD ON **RADIOACTIVE WASTE MANAGEMENT** CC2) 334-3066 Sept 334-3077

18 December 1992

Office Location: Milton Harris Building Room 456 2001 Wisconsin Avenue, N.W. 20007

MEMORANDUM

TO:

invited participants

FROM:

Bob Andrews, Senior Staff Officer

SUBJ:

Committee on Remediation of Buried and Tank Waste; first meeting

You are invited to participate in the first meeting of the Committee on Remediation of Builed and Tank Waste, Wednesday and Thursday, 6-7 January 1992, In Room 130 Green Building, National Academy of Sciences Georgetown Facility, 2001 Wisconsin Ave., N.W., Washington, DC. This Committee was organized upon conclusion of the terms of the members, and discontinuance, of the Panel to Review Planned DOE Disposal of Radioactive Waste in Single-Shell Tanks at Hanford and the Panel to Review the DOE Assessment of Pre-1970 Buried TRU Waste at the Idaho National Engineering Laboratory (INEL). The Committee's mission is to study the issues of buried and tank radioactive waste from a national and integrated perspective (see attached Committee work statement and membership list). Status reports from Hanford and INEL will be presented at this meeting, and I expect that the Committee will focus initially on issues addressed by the previous panels.

A preliminary agenda for the meeting is attached. All participants are invited to attend a hosted reception at 6:00pm on 6 January. You are invited to participate in the public comment segment at the end of the second day.

To assist us in planning, please notify Shelly Myers, Committee Secretary, or me, if you or a designated representative from your organization plan to attend this meeting and the reception.

attach

cc: R. Budnitz

R. Andrews

DISTRIBUTION LIST

DOE Headquarters

R. P. Whitfield, U.S. Department of Energy - EM-40 John Lehr, U.S. Department of Energy - EM-442 Mary Harmon, U.S. Department of Energy - EM-442 Julie D'Ambrosia, EnviroTech Associates, Inc.

DOE Field Offices

Kenneth Bracken, U.S. Department of Energy - Richland Sandy Trine, U.S. Department of Energy - Richland Jerry Lyle, U.S. Department of Energy - ID Alice Williams, U.S. Department of Energy - ID

Other Federal Agencies

Gordon Burley, U.S. Environmental Protection Agency Priscilla Bunton, U.S. Environmental Protection Agency Paul Day, U.S. Environmental Protection Agency Wayne Pierre, U.S. Environmental Protection Agency - Region 10 Douglas R. Sherwood, U.S. Environmental Protection Agency - Region 10 Newell Trask, U.S. Geological Survey - Reston V. Schneider, U.S. Geological Survey - Reston Jerry Parker, U.S. Geological Survey - Tacoma Ward Staubitz, U.S. Geological Survey - Tacoma Larry J. Mann, U.S. Geological Survey - Idaho Falls Regis Boyle, U.S. Nuclear Regulatory Commission Chad Glenn, U.S. Nuclear Regulatory Commission Dermot M. Winters, Defense Nuclear Facilities Safety Board William P. Barnard, U.S. Nuclear Waste Technical Review Board Paul Charp, ATSDR Mark M. Bashor, ATSDR Dave Berick, Senate Office Building

State Agencies

Steve R. Hill, State of Idaho Department of Health & Welfare Toby Michelena, Washington Department of Ecology Mary Lou Blazek, Oregon Department of Ecology Raiph Patt, Oregon Department of Water Resources David Stewart-Smith, Oregon Department of Energy

Indian Nations

Cheryl Olsen, Snake River Alliance Ron Halfmoon, Nez Perce Tribe Russell Jim, Yakima Indian Nation

FORK STATEMENT To Be Included in the "Organization & Members" Directory

Committee Code (Committee Hembership : Records Office Use Only)

Commission on Geosciences, Environment, and Resources	Committee on Remediation of Buried and Tank Waste
Major Unit	Committee
Board on Radioactive Waste Memt.	
Division, Office or Board	Sub-Unit

Dr. Robert S. Andrews
Staff Officer

WORK STATEMENT

The Committee will review and evaluate plans and actions by DOE to remediate buried and tank-contained defense radioactive wastes at the Idaho National Engineering Laboratory, Hanford (Washington) Reservation, and other relevant DOE sites and facilities that make up the Nuclear Weapons Complex. It will also provide scientific and technical review and evaluation of current and developing remediation technology and methodology from a broad national (and global) perspective.

Include in "O&M"? x YesNo		
Index SelectionEnvironmental	Remediation	
Index Selection		
September 4, 1992 (Date of Statement)	(Date of previous statement)	
Approved By: A Rettien & Meller		
Akathen by Mehler Executive Director, Hajor Unit	COMMITTEE RECORDS FORM #3	(2/86)

COMMITTEE ON REMEDIATION OF BURIED AND TANK WASTES

ROSTER

CHAIRMAN
Robert J. Budnitz, PhD, 1995
Future Resources Associates
(evironmental systems & technology)

Thomas A. Burke, PhD, 1995 The Johns Hopkins University (public health)

Robert J. Catlin, BS, 1995 University of Texas (health physics)

James H. Clarke, PhD, 1995 Eckenfelder, Incorporated (waste disposal technology)

Thomas A. Cotton, PhD, 1995 J.K. Research Associates, Inc. (social science/public affairs)

Rodney C. Ewing, PhD, 1995 University of New Mexico (geology)

Donald R. Gibson, Jr., PhD, 1995 TRW Environmental Safety Systems (engineering systems analysis) James H. Johnson, Jr., PhD, 1995 Howard University (civil engineering)

Debra S. Knopman, PhD, 1995 U.S. Geological Survey (engineering systems analysis)

Thomas M. Leschine, PhD, 1995 University of Washington (environmental science)

NAS Fred W. McLafferty, PhD, 1995 Cornell University (chemistry)

> W. Hugh O'Riordan, JD, 1995 Davis Wright Tremaine (regulatory practices)

NAE Paul A. Witherspoon, Jr., PhD, 1995 University of California, Berkeley (geohydrology)

> Benjamine Ross, PhD, 1995 Disposal Safety incorporated (risk assessment/analysis)

Raymond G. Wymer, PhD, 1995 Oak Ridge National Laboratory (Retired) (chemical engineering)

October 28, 1992

PRELIMINARY AGENDA [DRAFT]

Committee on Remediation of Buried and Tank Waste First Meeting, 6-7 January 1993 National Academy of Sciences, Georgetown Facility 2001 Wisconsin Ave., N.W., 130 Green Building, Washington, DC

Wednesday, 6 January

Treditesa	ay. o various y
	Executive Session
8:15am	Business meeting
11:30am	Lunch - Green Building Refractory
	Open Session
1:00pm	Welcome, introductions, and remarks - Bob Budnitz
1:30pm	DOE EM-40 perspective Pat Whitfield -
2:30pm	Past history on buried and tank waste - John Lehr
4:00pm	Hanford history and the tank program - John Tseng/Ken Bracken
5:30pm	Adjourn for day
6:00pm	Reception for all participants - Green Building
Thursday	. 7 January
	Open Session
8:15am	INEL history and the buried TRU waste program - Alice Williams
9:30am	Regulatory environment
	Hanford - Ken Bracken
•	INEL - Alice Williams
	DOE HQ perspective - John Lehr

Executive Session

Other DOE buried and tank waste - John Lehr

11:45am	Lunch -	130 G	Breen	Building
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Open Session

1:15pm	Possible Issues for Committee study - John Lehr
2:45pm	Wrap-up session - Bob Budnitz
	Plans for next meeting
	Public comment

4:00pm Adjourn meeting

11:00pm

CONTACT: W D'Souza PHONE#: 504- 3392 MAIL STOP: OWFN 4-H-3

89001771

DOCUMENT NAME: G: \RLB\ NAS .

DOCIMENT PREPARATION CHECKLIST DIVISION OF HIGH-LEVEL WASTE MANAGEMENT

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