

Bob Bollowing

United States Government

Department of Energy

memorandum

DATE: JUN 15 1988

REPLY TO
ATTN OF: RW-40

SUBJECT: Advance Information on NAS High-Level Waste QA Colloquium

TO: Charles E. Kay, RW-1
Ralph Stein, RW-30
Steve Kale, RW-20
Bud Kehew, RW-3
Carl Gertz, DOE, Nevada

As I stated to you in my note of June 2, on this subject, the NAS/NRC geotechnical and Waste Management Boards are moving ahead on their August 2-3 High-Level Waste QA colloquium. I received a draft Agenda (attachment 1) and draft invitee list (attachment 2) with NRC letter (attachment 3). I spoke with Lynne Craner on June 10 and marked up the agenda and invitee list as the handwritten marks show.

The direction I recommended, as several of you suggested, is to utilize this meeting to advance our important QA program by restructuring the colloquium with strong opening statements by senior DOE and NRC management on the necessity for a sound QA program to permit licensing, and hence, success of our repository program. The geotechnical scientific community (as invited by NAS staffers), which I have marked "NAS" on attachment 2, must understand that an acceptable Nuclear Regulatory Commission repository QA program must be made to work for our program to succeed.

To further that end, I suggested Ed Kay or another designated senior DOE official and an NRC official of at least Division Director status to make the opening statements. Afterwards, the more technical discussions could focus on making QA work in the geoscience area with focus on implementing the TUFF QA Plan.

You may also want to note that the agenda includes a talk by Richard Gormley, IBM, who supposedly has faced many of the same QA problems we have, in Department of Defense work with complex models and codes. His talk is designed to show how QA can be successfully applied in a program separate from ours.

8806210133 880615
PDR WASTE
WM-1 DCD

405-11
NAD1
WM-1

If any of you have suggestions for adding or deleting attendees or changes to the the agenda, please let me know.

I will keep you advised.

Lake H. Barrett
Acting Associate Director
Office of External Relations and Policy

Attachments (3)

cc:

K. Sommer, RW-3
D. Alexander, RW-332
K. Klein, RW-30
J. Saltzman, RW-20
S. Brocoum, RW-331
V. Trebules, RW-1
R. Nelson, RW-1
S. Rousso, RW-10
J. Blaylock, NV

TENTATIVE AGENDA

Barrett/Cramer
6/10
Markup

Colloquium on Quality Assurance Practices
for Underground Radioactive Waste Repositories

DOE HQT management - Ed Key or Designee
NRC management - Browning or above (Thompson?)
Tuesday, August 2

- 8:00--8:30 Coffee
- 8:30--9:00 Introductions, Opening Remarks - Pincus
- 9:00--9:30 QA--Successes and Failures in Meeting Its Objectives - Jim Knight in reactors
- 9:30-10:00 QA Program at Nevada Site
- 10:00-10:20 Discussion Gertz? / Blaylock
- 10:20-10:40 Break
- 10:40-11:10 Objectives of NRC - Browning / Kennedy
- 11:10-11:40 NQA-3 - C. Williams
- 11:40-12:15 Discussion
- 12:15--1:15 Lunch Break
- 1:15--1:45 Code Verification, Validation and Bench Marking--Experiences Outside of the Waste Repository Program R. Gormley - DOD success in QA
- 1:45--2:15 Code Verification, Validation and Bench Marking--Experiences Within the Repository Program - A. Fossval
- 2:15--2:35 Discussion
- 2:35--2:45 Break
- 2:45--3:15 Instrumentation - GREEN - NAs
- 3:15--3:45 In Situ Testing - Zimmerman - NAs
- 3:45--4:15 Lab Testing - Wawersik + Senseny - NAs
- 4:15--5:00 Discussion

Wednesday, August 3

- 8:30--9:00 Incorporation of Expert Opinion in the QA Process of Performance Assessment - Denise
- 9:00--9:30 Experience in the WIPP Program - Weart (WIPP)
- 9:30-10:50 Discussion
- 10:50-11:00 Break
- 11:00-11:30 USGS Earth Sciences Quality Assurance Team - Watt
- 11:30-12:30 Discussion--What Should The Geotechnical Community Do Next? Pincus
- 12:30-12:45 Closing Remarks

Richard M. Allen
SRM, c/o U.S. Dept. of Energy
Nevada Operations Office
P.O. Box 95818, Mail Stop 523
Las Vegas, NV 89193

*International
Perspective*

Donald H. Alexander
Chief
Regulatory Compliance Branch
U.S. Dept. of Energy, RW-332
1000 Independence Avenue, S.W.
Washington, DC 20585

? *Ralph's Call*

Nick C. Aquilina
Manager
Nevada Operations Office
Department of Energy
2753 South Highland Avenue
Las Vegas, NV 89109

Rip Anderson - Sandia

most likely not.

Don Banks
Chief, Eng. Geol. & R.M. Div.
U.S. Army Corps of Engineers
Waterways Experiment Station
P.O. Box 631
Vicksburg, MS 39180

NAS

Lake H. Barrett
Deputy Assoc., Office Dir
Civilian Radioactive Waste Mgt
Department of Energy
1000 Independence Avenue, S.W.
Washington, DC 20585

John Bartlett
TASC
1 Jacob Way
Reading, MA 01867

NAS

Michael J. Bell
Deputy Director
High Level Waste Management
Nuclear Regulatory Commission
MS 4-H-3
Washington, DC 20555

Joe Youngblood + Jim Kennedy

James Blaylock
Project Quality Manager
Waste Management Project Off.
U.S. Dept. of Energy, Nev. Ops. Off
P.O. Box 98518
Las Vegas, NV 89193

OK in Center

Dick Bieniewski - PSU - NAS

Glenn L. Bristow
Research Director
Spokane Research Center
U.S. Bureau of Mines
East 315 Montgomery Avenue
Spokane, WA 99207

NAS

William Brace
Professor
Mass. Institute of Technology
Room 54-920
Cambridge, MA 02139

NAS

Robert Browning
Director
Div. of High Level Waste Mgmt.
U.S. Nuclear Regulatory Commission
MS 4-11-3
Washington, DC 20555

... maybe higher in addition to Bob

Lynne F. Cramer
Director
USNC/Rock Mechanics, MH-286
National Academy of Sciences
2101 Constitution Avenue, N.W.
Washington, DC 20418

NAS staff

James F. Devine
Assist. Dir., Engng. Geol
Nat'l. Research Center, MS 106
U.S. Geological Survey
12201 Sunrise Valley Drive
Reston, VA 22092

NAS

Fred A. Donath
The Earth Technology Corp.
3777 Long Beach Boulevard
Long Beach, CA 90807

NAS

John Dunningcliff
Consultant
8 Adams Street
Lexington, MA 02173

NAS

Herbert H. Einstein
Professor of Civil Enrg.
Dept. of Civil Engineering
Mass. Institute of Technology
Room 1-330
Cambridge, MA 02139

NAS

Gold Associates, Inc.
3772 Pleasantdale Rd., Suite 165
Atlanta, GA 30340

NAS

Randall J. Essex
Senior Proj. Engineer
Woodward-Clyde Consultants, Inc.
500 12th Street, Suite 100
Oakland, CA 94607

NAS

Charles Fairhurst
Chairman
Dept. of Civil & Mineral Engrg
University of Minnesota
500 Pillsbury Drive, SE
Minneapolis, MN 55455

NAS

David F. Fenster
Roy F. Weston, Inc.
955 L'Enfant Plaza, S.W., 8th Floor
Washington, DC 20024

NAS

Arlo F. Fossum
RE/SPEC, Inc.
P.O. Box 725
Rapid City, SD 57709

NAS

Carl P. Gertz
Project Manager
Waste Management Project Off.
U.S. Dept. of Energy, Nev. Ops. Off
P.O. Box 98518
Las Vegas, NV 89193

El Ray recommended
because of state right activity

Richard D. Gormley
Senior Programmer
c/o IBM
Systems Integration Div.
P.O. Box 9023
Boulder, CO 80301

NAS

John T. Greeves
Deputy Director
Div. of Low Level Waste Mtngr.
U.S. Nuclear Regulatory Commission
MS 5-E-3
Washington, DC 20555

NRC - Low Level Perspective
per NAS

William R. Griffith
Project Manager
Fluor Technology, Inc.
3333 Michelson Drive
Irvine, CA 92730

NAS

Michael Schwendler Group
815 Colorado Blvd., 6th Floor
Los Angeles, CA 90041

NAS

James P. Knight
Director
Office of Nuclear Safety
U.S. Department of Energy
MC E-H-33
Washington, DC 20545

- Repeat talk on Reactor

Don Linger
HDQTRS, Defense Nuclear Agency
DFTD
6801 Telegraph Road
Alexandria, VA 22310

NAS/DOD

Jane C.S. Long
Staff Scientist
Lawrence Berkeley Laboratory
1 Cyclotron Road, MS 50E
Berkeley, CA 94720

NAS

Peter B. Myers
Director
Board on Radioactive Waste Mgt
National Academy of Sciences
2101 Constitution Avenue, N.W.
Washington, DC 20418

NAS

Mysore Nataraja
Section Chief, RM Section
Division of Waste Management
U.S. Nuclear Regulatory Commission
MS 5-H-8
Washington, DC 20555

NRC

Frank L. Parker
Chairman
Board on Radioactive Waste Mgt
Dept. of Environmental Engineering
Vanderbilt University
Nashville, TN 37235

NAS *8/2-3-7*

David Pentz
Golder Associates, Inc.
4104 148th Street, N.E.
Redmond, WA 98052

NAS

General J. ...
Consultant
P.O. Box 27630
San Diego, CA 92128

NAS

*Chair of Steering Committee
for this meeting.*

Joe L. Ratigan
RE/SPEC, Inc.
P.O. Box 725
Rapid City, SD 57709

NAS

~~R. P. Gaget
Director
Quality Assurance Division
U.S. Dept. of Energy, A5-52
Richland Op. Off., P.O. Box 550
Richland, WA 99352~~

Bud Kehwe

John F. Schatz
SAIC
10210 Campus Point Drive
San Diego, CA 92121

NAS

Birger Schmidt
Vice President
PBQD, Inc.
1625 Van Ness Avenue
San Francisco, CA 94109

NAS

Paul E. Senseny
RE/SPEC, Inc.
P.O. Box 725
Rapid City, SD 57709

NAS

Karl G. Sommer
Siting & Facilities Tech. Div.
U.S. Department of Energy, RW-3
1000 Independence Avenue, S.W.
Washington, DC 20585

Good

Christopher M. St. John
Principia
50 Vineyard Path
East Sheen
London, SW14 8ET ENG.

NAS/International

Ralph Stein
Acting Assoc. Director
Sys. Integration & Regulations
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, DC 20585

Ralph on design of his choice.

Responsible for:
Deputy Chief
Radioactive Waste Program
Office of Regional Geology
U.S. Geological Survey, MS 908
Reston, VA 22092

NAS

Eugene B. Waggoner
Engrg. Geol. Consultant
336 Seawind Drive
Vallejo, CA 94590

NAS

Ray Watts
Nat'l. Research Center, MS 104
U.S. Geological Survey
Reston, VA 22092

NAS

Wolfgang R. Wawersik
Sandia National Laboratories
Geomechanics Division 6232
Albuquerque, NM 87185

NAS

Wendell D. Weart
Manager, Waste Mngt. Tech
Waste Isolation Pilot Project
Division 6330
Sandia National Laboratories
Carlsbad, NM 88221

WIPP Experience

Roger M. Zimmerman
Member Technical Staff
Sandia National Laboratories
Division 6313
Albuquerque, NM 87185

NAS

1-7-88-1-1-1-3

NATIONAL RESEARCH COUNCIL
COMMISSION ON ENGINEERING AND TECHNICAL SYSTEMS
2101 Constitution Avenue Washington, D.C. 20418

GEOTECHNICAL BOARD
(202) 334-3137

June 2, 1988

Mr. Lake H. Barrett
Deputy Associate Office Director
Office of Civilian Radioactive
Waste Management
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

Dear Mr. Barrett:

As we discussed on the telephone, the Geotechnical Board and the Board on Radioactive Waste Management of the National Academy of Sciences, are planning to hold a Colloquium on Quality Assurance Practices for Underground Radioactive Waste Repositories on August 2-3, 1988 in Washington, D.C. The intent of the colloquium is to bring together the appropriate people from the Department of Energy and the Nuclear Regulatory Commission to meet with the geotechnical community to discuss the application of quality assurance practices to the planning, design, and construction of underground structures. The Boards that initiated this activity hope that the colloquium will facilitate discussions between all the players in the repository program. The colloquium will be an opportunity to better educate the geotechnical community on the purpose and necessity for quality assurance, and enable the geotechnical community to identify, for both DOE and NRC, any potential problems that are perceived with the utilization of QA in underground construction.

We hope to keep the attendance at the colloquium relatively small (approximately 50 people) so that discussion will be easily facilitated. Accordingly, we have developed a preliminary "invitation list" which we would like you to review. I have enclosed the list and marked in red those people who are from DOE. I would appreciate any suggestions that you might have regarding any additions to the list.

I have also attached a tentative agenda for the colloquium. We are still identifying the speakers, but should have that information available by June 15. I will be happy to discuss any of the details with you, and I appreciate your assistance.

Sincerely,

Lynne F. Cramer

Lynne F. Cramer, P.E.
Geotechnical Board Coordinator

cc: P. Myers, Director, Board on Radioactive Waste Management