

August 29, 2000

MEMORANDUM TO: N. King Stablein, Acting Chief
High-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety and Safeguards

FROM: Manny Comar, Project Manager /RA/
Projects and Engineering Section
High-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety and Safeguards

SUBJECT: FORTHCOMING U.S. NUCLEAR REGULATORY COMMISSION
AND U.S. DEPARTMENT OF ENERGY TECHNICAL
EXCHANGE ON CONTAINER LIFE AND SOURCE TERM

DATE/TIME of MEETING: September 12 - 13, 2000
8:00 a.m. - 6:15 p.m. (PDT)

LOCATION: Building 9960
1180 Town Center Drive
Las Vegas, NV 89144

PURPOSE: Discuss resolution of open issues related to the Key Technical
Issue of Container Life and Source Term

AGENDA: Attached

PARTICIPANTS: NRC DOE Nevada NV Counties
CWReamer DWilliams SFrishman DBechtel
NKStablein CHanlon et. al. et. al.
TAhn PRussell
et. al. TGunter
et. al.

* Meetings and technical exchanges between NRC and DOE are open to members of the public, petitioners, interveners, or other interested parties wishing to attend as observers pursuant to the spirit of "Open Meeting Statement of NRC Staff Policy," 43 Federal Register 28058, dated June 28, 1978, which details the open meeting policy for applicants and licensees.

Meeting Notice to N. K. Stablein from M. Comar dated: August 25, 2000

cc: R. Loux, State of Nevada
S. Frishman, State of Nevada
L. Barrett, DOE/Wash, DC
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J. Bailey, M&O
D. Wilkins, M&O
M. Voegele, M&O
S. Echols, Winston & Strawn
B. Price, Nevada Legislative Committee
J. Meder, Nevada Legislative Counsel Bureau
D. Bechtel, Clark County, NV
E. von Tiesenhausen, Clark County, NV
A. Kalt, Churchill County, NV
H. Ealey, Esmeralda County, NV
L. Fiorenzi, Eureka County, NV
A. Remus, Inyo County, CA
B. Duke, Lander County, NV
J. Pitts, Lincoln County, NV
J. Wallis, Mineral County, NV
L. Bradshaw, Nye County, NV
M. Murphy, Nye County, NV
J. McKnight, Nye County, NV
B. Ott, White Pine County, NV
D. Weigel, GAO
W. Barnard, NWTRB
R. Holden, NCAI
C. Williams, NIEC
R. Arnold, Pahrump County, NV
J. Lyznicky, AMA
R. Clark, EPA
F. Marcinowski, EPA
R. Anderson, NEI
R. McCullum, NEI
S. Kraft, NEI
J. Kessler, EPRI
R. Wallace, USGS
R. Craig, USGS
W. Booth, Engineering Svcs, LTD
J. Curtiss, Winston & Strawn

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Draft Agenda
DOE-NRC Technical Exchange Meeting
CONTAINER LIFE AND SOURCE TERM KTI
Building 9960
1180 Town Center Drive
Las Vegas, Nevada
September 12 and 13, 2000

Objective: Provide the basis to resolve open issues related to the Container Life and Source Term (CLST) Key Technical Issue (KTI)

Scope: Describe the basis to resolve open items related to the CLST KTI and reach agreement on the path forward. Describe how DOE has addressed items presented at the April 25-26, 2000 Key Technical Issues Technical Exchange.

Times are approximate because the agenda items are expected to provide a framework for wider ranging discussions. Time allotted for each presentation includes time for the DOE presentation and time for accompanying discussion.

Tuesday, September 12, 2000

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|-----------------|---|
| 8:00 – 8:20 AM | Introduction/Objectives/Logistics
Purpose of the interaction |
| 8:20 – 8:40 AM | Key Technical Issue for Container Life and Source Term – Summary of Status from DOE Perspective (Russell) |
| 8:40 – 9:40 AM | Subissue 3: The rate at which radionuclides in spent nuclear fuel are released from the engineered barrier subsystem through the oxidation and dissolution of spent fuel <ul style="list-style-type: none">• DOE Presentation (Stockman)• Discussion |
| 9:40 – 9:55 AM | BREAK |
| 9:55 – 10:55 AM | Subissue 4: The rate at which radionuclides in high-level waste glass are released from the engineered barrier subsystem <ul style="list-style-type: none">• DOE Presentation (Stockman)• Discussion |

- 10:55 – 11:55 AM Caucus on Subissues 3 and 4
- 11:55 – 12:40 PM DOE-NRC Discussion of Resolution Status
- 12:40 – 1:40 PM LUNCH
- 1:40 – 2:40 PM Subissue 2: The effects of phase instability of materials and initial defects on the mechanical failure and lifetime of the containers
- DOE Presentation (Gordon/Bennett)
 - Discussion
- 2:40 – 3:40 PM Subissue 6: The effects of alternate engineered barrier subsystem design features on container lifetime and radionuclide release from the engineered barrier subsystem
- DOE Presentation (Gordon)
 - Discussion
- 3:40 – 3:55 PM BREAK
- 3:55 – 4:55 PM Caucus on Subissues 2 and 6
- 4:55 – 5:40 PM DOE-NRC Discussion of Resolution Status
- 5:40 – 6:00 PM Closing Comments
- 6:00 PM Adjourn first day

Wednesday, September 13, 2000

- 8:00 – 10:00 AM Subissue 1: The effects of corrosion processes on the lifetime of the containers
- DOE Presentation (Gordon)
 - Discussion
- 10:00 – 10:15 AM BREAK
- 10:15 – 11:15 AM Caucus on Subissue 1
- 11:15 – 12:15 PM DOE-NRC Discussion of Resolution Status
- 12:15 – 1:15 PM LUNCH

Wednesday, September 13, 2000 (continued)

1:15 – 2:45 PM	Subissue 5: The effects of in-package criticality on waste package and engineered barrier subsystem performance <ul style="list-style-type: none">• DOE Presentation (Thomas/Gottlieb)• Discussion
2:45 – 3:00 PM	BREAK
3:00 – 4:00 PM	Caucus on Subissue 5
4:00 – 5:00 PM	DOE-NRC Discussion of Resolution Status
5:00 – 5:30 PM	Closing Comments
5:30 PM	Adjourn Technical Exchange