

AUG 04 1993

MEMORANDUM FOR: Joseph J. Holonich, Director  
Repository Licensing and Quality Assurance  
Project Directorate  
Division of High-Level Waste Management

FROM: Charlotte Abrams, Senior Project Manager  
Repository Licensing and Quality Assurance  
Project Directorate  
Division of High-Level Waste Management

SUBJECT: FORTHCOMING NUCLEAR REGULATORY COMMISSION/U.S. DEPARTMENT OF  
ENERGY (DOE) TECHNICAL EXCHANGE ON SUBSTANTIALLY COMPLETE  
CONTAINMENT AND WASTE PACKAGE/ENGINEERED BARRIER SYSTEM  
DESIGN CONCEPTS\*

DATE: August 24, 1993

TIME: 8:30 a.m. - 5:15 p.m.

LOCATION: Phillips Building  
7920 Norfolk Avenue  
Bethesda, MD  
Room P-110

PURPOSE: To hold discussions on DOE's interpretation of substantially  
complete containment and its use as a guide in design and to  
discuss the status/progress of DOE's waste package design  
effort.

PARTICIPANTS:

<u>NRC</u>	<u>DOE</u>	<u>State of Nevada</u>
C.Abrams R.Weller	C.Macaluso D.Stucker	C.Johnson S.Frushman

\* Meetings and technical exchanges between NRC and DOE are open to members of the public, Petitioners, intervenors, 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.

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PDR WASTE PDR  
WM-1

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NH16

Affected Local Governments

M. Murphy, Nye County, NV  
 D. Bechtel, Clark County, NV  
 V. Poe, Mineral County, NV  
 C. Schank, Churchill County, NV  
 R. Williams, Lander County, NV  
 B. Mettam, Inyo County, CA

M. Baughman, Lincoln County, NV  
 F. Sperry, White Pine County, NV  
 P. Niedzielski-Eichner, Nye County, NV  
 L. Fiorenzi, Eureka County, NV  
 L. Vaughan II, Esmeralda County, NV  
 L. Bradshaw, Nye County, NV

/s/

Charlotte E. Abrams, Senior Project Manager  
 Repository Licensing and Quality Assurance  
 Project Directorate  
 Division of High-Level Waste Management

cc: T. Hickey, NEV  
 S. Goldberg, OMB  
 D. Weigel, GAO  
 F. Parker, NAS  
 W. Barnard, NWTRB  
 A. Kadak, YAEC

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OFC	HLPD <i>CA</i>	HLPD <i>CA</i>   <i>e</i>			
NAME	CAbrams/dh	AGarcia			
DATE	08/03/93	08 4/93			

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## AGENDA

### U.S. DEPARTMENT OF ENERGY - U.S. NUCLEAR REGULATORY COMMISSION TECHNICAL EXCHANGE ON SUBSTANTIALLY COMPLETE CONTAINMENT AND WASTE PACKAGE/ENGINEERED BARRIER SYSTEM DESIGN CONCEPTS

August 24, 1993  
NRC Phillips Building, Bethesda Maryland  
8:30 a.m. - 5:15 p.m.

- |       |  |                              |
|-------|--|------------------------------|
| 8:30  | Welcome/Protocol/Opening Remarks   | DOE, NRC, State,<br>Counties |
| 8:45  | Overview of Substantially Complete Containment (SCC)   | DOE                          |
|       | <ul style="list-style-type: none"><li>• Basis for initial Consultative Draft-SCP and SCP approaches</li><li>• Basis for current approach</li><li>• Approach to resolution of NRC concerns</li></ul>  | ALL                          |
|       | Discussion   |                              |
| 9:15  | Status of SCC Activities   | NRC                          |
|       | <ul style="list-style-type: none"><li>• CNWRA activities and recommendations (Basis for SCC Elicitation)</li></ul>   |                              |
|       | Discussion   | ALL                          |
| 9:25  | Waste Package Development Program  | DOE                          |
|       | <ul style="list-style-type: none"><li>• Approach to meeting regulatory requirements</li><li>• Waste package plan and waste package implementation plan</li><li>• Schedule and milestones</li><li>• Materials selection process</li><li>• Multi-purpose canister (MPC) - waste package interface</li><li>• Performance analysis</li></ul> |                              |
|       | Discussion   | ALL                          |
| 10:25 | BREAK  |                              |
| 10:40 | Waste Package Design Concepts  |                              |
|       | <ul style="list-style-type: none"><li>• SCP design</li><li>• Multi-barrier concepts</li><li>• MPC overpack concepts</li><li>• Thermal considerations</li><li>• Criticality considerations</li><li>• Radiation considerations</li></ul>   |                              |
|       | Discussion   | ALL                          |

11:40 LUNCH

1:00 Approach to Testing/Materials Selection DOE

- Review of SCP functional requirements
- Development of functional requirements for other design concepts
- Materials selection

Discussion ALL

1:45 Status of DOE testing effort Relative to SCC DOE

- Differences between corrosion-resistant and corrosion-allowance materials
- Materials testing/selection for SCP design
- Materials testing for the other design concepts

Discussion ALL

2:45 Status of DOE Modeling Effort Relative to SCC DOE

- Total system performance assessments
- Waste package performance models
- Container corrosion models

Discussion ALL

3:30 BREAK

3:45 Status of NRC Testing Effort NRC  
Discussion ALL

4:05 Status of NRC Modeling Effort NRC  
Discussion ALL

4:25 SCA Open Items Related to SCC DOE

- Comment No. 5
- Comment No. 47
- Comment No. 80
- Comment No. 46
- Question No. 47

Discussion ALL

4:55 Closing Comments DOE, NRC, State,  
Counties

5:15 Adjourn