

July 19, 2001

MEMORANDUM TO: C. William Reamer, 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 AND MANAGEMENT MEETING ON TOTAL  
SYSTEM PERFORMANCE ASSESSMENT AND INTEGRATION

DATE/TIME of MEETING: August 6 - 10, 2001  
8:00 a.m. - 5:00 p.m. (PDT) 11:00 a.m. - 8:00 p.m. (EDT)

LOCATION: Texas Station Hotel and Casino  
2101 Texas Star Lane  
Las Vegas, NV 89032

PURPOSE: Discuss open issues related to the Key Technical issue on Total  
System Performance Assessment and Integration

AGENDA: Attached

PARTICIPANTS: NRC                      DOE                      Nevada                      NV Counties  
SWastler                      AGil                      SFrishman                      DBechtcl  
JFirth                      TGunter                      et al.                      et. al.  
et. al.                      et. al.

\* Meetings and technical exchanges between U.S. Nuclear Regulatory Commission (NRC) and the U.S. Department of Energy are open to members of the public, petitioners, interveners, or other interested parties wishing to attend as observers pursuant to the spirit of "Policy Statement on Staff Meetings Open to the Public," 65 Federal Register 56964, dated September 20, 2000. The revised policy states that public notice of staff meetings open to the public will be provided via the Internet at the NRC web site. Members of the public can also contact the staff toll free at 1-800-397-4209.

cc:

- R. Loux, State of Nevada
- S. Frishman, State of Nevada
- L. Barrett, DOE/Washington, DC
- A. Brownstein, DOE/Washington, DC
- S. Hanauer, DOE/Washington, DC
- C. Einberg, DOE/Washington, DC
- J. Carlson, DOE/Washington, DC
- N. Slater, DOE/Washington, DC
- A. Gil, YMPO
- R. Dyer, YMPO
- S. Brocoum, YMPO
- R. Clark, YMPO
- S. Mellington, YMPO
- C. Hanlon, YMPO
- T. Gunter, YMPO
- K. Hess, BSC
- D. Krisha, BSC
- S. Cereghina, BSC
- N. Williams, BSC
- M. Voegele, BSC/SAIC
- 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
- G. McCorkell, Esmeralda County, NV
- L. Fiorenzi, Eureka County, NV
- A. Johnson, Eureka County, NV
- A. Remus, Inyo County, CA
- M. Yarbro, Lander County, NV
- I. Zabarte, W.S.N.C.
- R. Massey, Lander County, NV
- J. Pitts, Lincoln County, NV
- M. Baughman, Lincoln County, NV
- A. Funk, Mineral County, NV
- J. Shankle, Mineral County, NV
- L. Bradshaw, Nye County, NV
- M. Murphy, Nye County, NV
- J. McKnight, Nye County, NV
- D. Weigel, GAO
- W. Barnard, NWTRB
- R. Holden, NCAI
- A. Collins, NIEC
- R. Arnold, Pahrump County, NV
- J. Larson, White Pine County
- R. Clark, EPA
- F. Marcinowski, EPA
- R. Anderson, NEI
- R. McCullum, NEI
- R. Henning, BSC
- S. Kraft, NEI
- J. Kessler, EPRI
- D. Duncan, USGS
- R. Craig, USGS
- W. Booth, Engineering Svcs, LTD
- J. Curtiss, Winston & Strawn
- N. Rice, NV Congressional Delegation
- T. Story, NV Congressional Delegation
- J. Reynoldson, NV Congressional Delegation
- S. Joya, NV Congressional Delegation
- J. Pegues, City of Las Vegas, NV
- L. Lehman, T-REG, Inc.

DRAFT AGENDA TOPICS  
U.S. Department of Energy - U.S. Nuclear Regulatory Commission  
Technical Exchange and Management Meeting  
Total System Performance Assessment and Integration  
Texas Station Hotel and Casino  
2101 Texas Star Lane, Las Vegas, Nevada, 89032  
August 6-10, 2001

Objective: Discuss open issues related to the Key Technical Issue on Total System Performance Assessment and Integration

**Draft Agenda Topics**

Subissue 1 - System Description and Demonstration of Multiple Barriers

Subissue 2 - Scenario Analysis within the TSPA Methodology

Subissue 3 - Model Abstraction within the TSPA Methodology

- Degradation of Engineered Barriers
- Mechanical Disruption of Engineered Barriers
- Quantity and Chemistry of Water Contacting Waste Packages and Waste Forms
- Radionuclide Release Rates and Solubility Limits
- Climate and Infiltration
- Flow Paths in the Unsaturated Zone
- Radionuclide Transport in the Unsaturated Zone
- Flow Paths in the Saturated Zone
- Radionuclide Transport in the Saturated Zone
- Volcanic Disruption of Waste Packages
- Airborne Transport of Radionuclides
- Dilution of Radionuclides in Groundwater due to Well Pumping
- Redistribution of Radionuclides in Soil
- Lifestyle of the Critical Group

Subissue 4 - Demonstration of the Overall Performance Objective

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