

May 13, 2004

MEMORANDUM TO: C. William Reamer, Director
Division of High Level Waste Repository Safety
Office of Nuclear Material Safety and Safeguards

FROM: Gregory P. Hatchett, Senior Project Manager /RA/
Project Management Section B
Project Management & Engineering Directorate
Division of High Level Waste Repository Safety
Office of Nuclear Material Safety and Safeguards

SUBJECT: FORTHCOMING U.S. NUCLEAR REGULATORY COMMISSION (NRC)
AND U.S. DEPARTMENT OF ENERGY (DOE) TECHNICAL EXCHANGE
RELATED TO NAVAL SPENT NUCLEAR FUEL

DATE/TIME: May 20, 2004
8:30 AM - 12:30 PM

LOCATION: Naval Sea Systems Command
1333 Isaac Hull Avenue, SE
Washington Navy Yard
Washington, DC

PURPOSE: To discuss the Naval Nuclear Propulsion Program methodology for
determining the likelihood of criticality involving Naval Spent Nuclear Fuel
in a geologic repository

AGENDA: Attached

PARTICIPANTS: NRC NAVY DOE
MBailey RGisch JPrice
GHatchett

CONTACT: Gregory Hatchett 301-415-3315 gxh@nrc.gov

MEETING CATEGORY: **THIS IS A CLOSED MEETING DUE TO DISCUSSION OF
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Memorandum to C.W. Reamer from G. Hatchett, dated: May 13, 2004

cc:

A. Kalt, Churchill County, NV	A. Elzeftawy, Las Vegas Paiute Tribe
R. Massey, Churchill/Lander County, NV	J. Treichel, Nuclear Waste Task Force
I. Navis, Clark County, NV	W. Briggs, Ross, Dixon & Bell
E. von Tiesenhausen, Clark County, NV	M. Chu, DOE/Washington, D.C.
G. McCorkell, Esmeralda County, NV	G. Runkle, DOE/Washington, D.C.
L. Fiorenzi, Eureka County, NV	C. Einberg, DOE/Washington, D.C.
A. Johnson, Eureka County, NV	S. Gomberg, DOE/Washington, D.C.
A. Remus, Inyo County, CA	W. J. Arthur, III , DOE/ORD
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M. Baughman, Lincoln County, NV	A. Gil, DOE/ORD
L. Mathias, Mineral County, NV	W. Boyle, DOE/ORD
L. Bradshaw, Nye County, NV	D. Brown, DOE/OCRWM
M. Maher, Nye County, NV	S. Mellington, DOE/ORD
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S. Lynch, State of NV	R. Boland, Timbisha Shoshone Tribe
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J. Pegues, City of Las Vegas, NV	J. Birchim, Yomba Shoshone Tribe
M. Murphy, Nye County, NV	R. Holden, NCAE

cc: (Continued)

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W. Booth, Engineering Svcs, LTD

L. Lehman, T-Reg, Inc.

S. Echols, Esq

C. Marden, BNFL, Inc.

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Owens Valley

P. Thompson, Duckwater Shoshone Tribe

T. Kingham, GAO

D. Feehan, GAO

E. Hiruo, Platts Nuclear Publications

G. Hernandez, Las Vegas Paiute Tribe

K. Finrock, NV Congressional Delegation

P. Johnson, Citizen Alert

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R. Wilder, Fort Independence Indian Tribe

D. Vega, Bishop Paiute Indian Tribe

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J. C. Saulque, Benton Paiute Indian Tribe

C. Bradley, Kaibab Band of Southern Paiutes

R. Joseph, Lone Pine Paiute-Shoshone Tribe

L. Tom, Paiute Indian Tribes of Utah

E. Smith, Chemehuevi Indian Tribe

D. Buckner, Ely Shoshone Tribe

V. Guzman, Walker River Paiute

D. Eddy, Jr., Colorado River Indian Tribes

H. Jackson, Public Citizen

J. Wells, Western Shoshone National
Council

D. Crawford, Inter-Tribal Council of NV

I. Zabarte, Western Shoshone National
Council

S. Devlin

G. Hudlow

D. Irwin, Hunton & Williams

AGENDA

Technical Exchange on Naval Nuclear Propulsion Program Disposal Criticality Analysis Methodology

May 20, 2004
8:30 AM to 12:30 PM

Navy Sea Systems Command
1333 Isaac Hull Avenue, SE
Washington Navy Yard
Washington, DC

PURPOSE: To discuss the Naval Nuclear Propulsion Program methodology for determining the likelihood of criticality involving Naval Spent Nuclear Fuel in a geologic repository

TOPIC	SUMMARY	TIME
Introduction/Purpose	See above	8:30 AM
Administrative topics	DOE(RW)/BSC - NNPP Interface <ul style="list-style-type: none">• Use of DOE(RW)/BSC Information in NNPP Probabilistic Safety Assessment (PSA) and in the screening of Features, Events and Processes• Information exchange process• Division of Responsibility• Reviews of the NNPP Technical Support Document for the License Application (TSDLA) Documentation• License Application• DOE Supporting Documents• NNPP TSDLA	8:45 AM
Overview of NNPP Criticality Analysis Methodology	Present flow chart of the overall NNPP methodology; Discuss similarities with the overall DOE criticality analysis methodology	9:00 AM
Fuel forms included and basket loading concepts	Plan to assure completeness; Forms of NNPP fuel and three associated methods of loading for dry storage and disposal	9:30 AM
Update of Criticality Features, Events and Processes (CFEPs)	Revised list of CFEPs; General plan for screening and inclusion in analysis	10:00 AM
BREAK		10:30 AM
Criticality Calculation Methodology	Review of calculational techniques	10:45 AM
PSA Models	Consistency with the Regulation and DOE methodology; How issues on the NNPP criticality analysis methodology will be addressed; PSA models for the three loading methods NRC letter August 2003	11:15 AM
Summary, Questions, and Comments		12:15 PM
Adjourn		12:30 PM

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