



Department of Energy

Nevada Operations Office

P. O. Box 98518

Las Vegas, NV 89193-8518

SEP 17 1987

John J. Linehan
Section Leader
Repository Projects Branch
Division of Waste Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

RESPONSE TO THE NUCLEAR REGULATORY COMMISSION (NRC) OPEN (ACTION) ITEMS AND INFORMATION REQUESTS

References: (1) Letter, Linehan to Vieth, dtd. 10/31/86
(2) Letter, Coplan to Vieth, dtd. 4/14/83
(3) NRC-NNWSI Project Exploratory Shaft Design/Construction Meeting Summary, 8/27-28/85

Enclosed are several reports in response to NRC requests for the drilling history and results of geotechnical and other testing from the principal borehole G-4. References 1, 2, and 3 contain specific requests for this information. This transmittal is intended to satisfy information request (If) from Reference 2 and to close Open Item 20 from Reference 3.

Previously, the Nevada Nuclear Waste Storage Investigations (NNWSI) Project provided the NRC two reference documents to satisfy the request and to close the open item. These documents were USGS-OFR-84-789, "Stratigraphic and Structural Characteristics of Volcanic Rocks in Borehole USW G-4;" and SAND84-1101, "Uniaxial and Triaxial Compression Test Series on Topopah Spring Tuff from USW G-4, Yucca Mountain, Nevada." The former document provided the drilling history for the principal borehole, USW G-4 and the latter document provided the results of the uniaxial and triaxial compression experiments performed on samples from drill hole USW G-4. The NRC responded to the NNWSI Project proposal for closure by requesting additional information related to geotechnical testing performed on samples obtained from the principal drill-hole which had not been included in either of the two documents. The following reports are being transmitted to the NRC to provide this additional information.

1. SAND85-0762 - "Bulk, Thermal, and Mechanical Properties of the Topopah Spring Member of the Paintbrush Tuff, Yucca Mountain, Nevada"
2. USGS-OFR-84-552 - "Rock Property Measurements on Large-volume Core Samples from Yucca Mountain USW-GU-3/G-3 and USW G-4 boreholes, Nevada Test Site, Nevada"
3. SAND83-1711 - "Thermal Conductivity of Silicic Tuffs from Yucca Mountain and Rainier Mesa, Nye County, Nevada"
4. SAND84-1471 - "Fracture and Matrix Hydrologic Characteristics of Tuffaceous Materials from Yucca Mountain, Nye County, Nevada"

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Furthermore, several tests on samples from USW G-4 are listed in Sandia National Laboratories (SNL) NNWSI Project Data Catalogues, which are sent periodically to the NRC. The NRC may request copies of items in the SNL NNWSI Project Data Catalogues per the DOE/NRC Site Specific Agreement. The NRC is also on the SNL distribution list for all SAND reports published.

In view of the information provided previously and by this transmittal to the NRC, the access to the SNL NNWSI Project Data Catalogues, and the SAND report distribution, the NNWSI Project now considers Action Item 20 and Information Request (If) to be closed.

Please address questions on these topics to Larry P. Skousen (FTS 575-8929) at the Waste Management Project Office or David M. Dawson (FTS 575-8657) at Science Applications International Corporation.



Carl P. Gertz, Project Manager
Waste Management Project Office

WMPO:LPS-2751

Enclosures:

1. SAND85-0762
2. USGS-OFR-84-552
3. SAND83-1711
4. SAND84-1471

cc w/encls:

J. P. Knight, HQ (RW-24) FORS

cc w/o encls:

- V. J. Cassella, HQ (RW-222) FORS
- D. A. Alexander, HQ (RW-232) FORS
- M. W. Frei, HQ (RW-231) FORS
- Dean Stucker, HQ (RW-231) FORS
- Ralph Stein, HQ (RW-24) FORS
- N. K. Stablein, NRC, Washington, DC
- P. T. Prestholt, NRC, Las Vegas, NV
- T. O. Hunter, SNL, 6310, Albuquerque, NM
- E. W. Shepherd, SNL, 6310, Albuquerque, NM
- D. T. Oakley, LANL, Los Alamos, NM.
- E. L. Hardin, SAIC, Las Vegas, NV
- D. M. Dawson, SAIC, Las Vegas, NV
- M. L. Brown, SAIC, Las Vegas, NV
- R. R. Reust, SAIC, Las Vegas, NV
- M. D. Voegele, SAIC, Las Vegas, NV
- M. A. Glora, SAIC, Las Vegas, NV
- M. E. Spaeth, SAIC, Las Vegas, NV
- J. S. Szymanski, WMPO, NV
- D. H. Irby, WMPO, NV



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Distribution

ANNOUNCEMENT OF CHANGE IN LOCATION FOR THE SEPTEMBER 22 AND 23, 1987, NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS (NNWSI) PROJECT MEETING WITH THE NUCLEAR REGULATORY COMMISSION (NRC) ON SEISMIC-TECTONIC SITE CHARACTERIZATION PLAN STRATEGIES

The location of the meeting between the NNWSI Project staff and the NRC staff on seismic-tectonic site characterization plan strategies has been changed to the auditorium at the Nevada Operations Office of the Department of Energy, located at 2753 South Highland Drive in Las Vegas, Nevada. The meeting will begin at 8:30 a.m. on September 22, 1987, as previously planned.

If you have questions concerning the meeting, please contact Mary Lou Brown of Science Applications International Corporation (FTS 575-8658).

Maxwell B. Blanchard
Maxwell B. Blanchard, Chief
Regulatory and Site Evaluation Branch
Waste Management Project Office

WMPO:MBB-2780

cc:
V. J. Cassella, HQ (RW-222) FORS



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James P. Knight, Director, Licensing and Regulatory Division, HQ (RW-23)
FORS

**APPENDIX 7 INTERACTIONS BETWEEN THE NEVADA NUCLEAR WASTE STORAGE
INVESTIGATIONS (NNWSI) PROJECT AND THE NUCLEAR REGULATORY COMMISSION ON
EXPLORATORY SHAFT FACILITY (ESF) DESIGN STUDIES**

The subject interaction on ESF design studies and the draft Subsystem Design Requirements report will be held in Las Vegas, Nevada, on September 24 and 25. The location of the meeting is the Nuclear Regulatory Commission office, 1050 East Flamingo, Las Vegas, Nevada. We understand that you have arranged the details of this meeting with the Nuclear Regulatory Commission staff.

Please contact Jerry S. Szymanski (FTS 575-8941) of my office for further information.


for Carl P. Gertz, Project Manager
Waste Management Project Office

WMPO:JSS-2794

cc:

V. J. Cassella, HQ (RW-222) FORS
Ralph Stein, HQ (RW-23) FORS
E. E. Regnier, HQ (RW-24) FORS
P. T. Prestholt, NRC, Las Vegas, NV
R. L. Bullock, F&S, Las Vegas, NV
Vincent Gong, REECO, Las Vegas, NV
L. R. Hayes, USGS, Denver, CO
W. E. Wilson, USGS, Denver, CO
T. O. Hunter, SNL, 6310, Albq., NM
D. T. Oakley, LANL, Los Alamos, NM
J. P. Pedalino, H&N, Las Vegas, NV
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M. D. Voegelé, SAIC, Las Vegas, NV
M. L. Brown, SAIC, Las Vegas, NV
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WM Record File 102.7

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