



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Reply to:
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Las Vegas, NV 89101

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TO: Joseph Holonich, Director, HLPD, M/S 4 H 3
FROM: Sr. On-Site Licensing Representatives' Office, Las Vegas
DATE: January 11, 1994
SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE
WEEK ENDING DECEMBER 24, 1993

Please find enclosed the above-referenced information. There is nothing requiring specific management attention.

cc: w/enc.: Charlotte Abrams, M/S 4 H 3
Anne Garcia, M/S 4 H 3

Enclosure as stated

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DEPARTMENT OF ENERGY
Office of Civilian Radioactive Waste Management
Office of Geologic Disposal
Yucca Mountain Site Characterization Project Office
P.O. Box 98608
Las Vegas, NV 89193-8608

WBS 1.2.9.2
QA: N/A

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Daniel A. Dreyfus, Director, Civilian Radioactive Waste Management,
HQ (RW-1) FORS

OFFICE OF GEOLOGIC DISPOSAL WEEKLY HIGHLIGHTS FOR THE WEEK ENDING
DECEMBER 24, 1993 (SCP: N/A)

I. FORECAST SIGNIFICANT EVENTS

Site Characterization Activities

Exploratory Studies Facility (ESF)

Design activities will continue on Package 1B with review of the drawings and specifications by the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O) Change Control Board (CCB) for baselining and by the U.S. Department of Energy (DOE) for acceptance. Design activities will continue on Package 2A with the submittal of the drawings and specifications to the Yucca Mountain Site Characterization Project (YMP) CCB for baselining. The design review meeting for Packages 2B and 1C is scheduled for January 5-7, 1994.

Construction will continue on the 69kV power distribution system with continuation of trenching for duct banks on the pad.

Continue placement of bedding sand in the trench and installation of the pipe for the water line.

No work will be performed at the site on December 31, 1993 due to the New Year holiday.

II. CRITICAL ITEM STATUS - YMP

A. Site Characterization Activities

ESF

Construction

On Job Package (JP) 92-20, ESF North Portal Pad and Facilities, application of fibercrete in the starter tunnel continues as well as the construction of the water line and on the 69kV power distribution system.

The face of the test alcove remains at 27.4 meters (00+90 feet), measured from the centerline of the starter tunnel.

Complete shotcreting of the boxcut at the entrance of the starter tunnel.

Continue placement of bedding sand in the trench, and installation of the pipe for the water line.

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No work will be performed at the site on December 24, 1993 due to the Christmas holiday.

The following milestone represents the near-term plan for ESF activities:

69kVA power available
at the North Portal

February 14, 1994

This delay resulted from a requirement to procure and install spare conduits on the pad and repair of the transformer which was borrowed from the Nevada Power Company. There is no impact on construction as a result of this delay, but the float in the schedule is being reduced.

Design

Design activities continued on Packages 1B and 2A. Completed baselining of Package 1B Basis for Design by the CRWMS M&O CCB and acceptance review by DOE. Completed verification of Package 1B drawings and specifications. Submitted Package 1B drawings and specifications to CRWMS M&O CCB for baselining and to DOE for acceptance review. Completed DOE acceptance review of Package 2A drawings and specifications. Continuing design activities for Packages 1C, 2B, and 2C.

Surface-Based Testing

Exploratory drilling operations progress is summarized as follows:

| <u>Borehole</u> | <u>Current Core Depth 12/24/93</u> | <u>Current Ream Depth 12/24/93</u> | <u>Total Planned Depth</u> |
|-----------------|--|--|--------------------------------|
| UZ-14 | 1,442.10 feet | 1,421.6 feet | 2,000 feet |
| NRG-7/7A | 848.62 feet | 302.1 feet | 1,445 feet |

The following is a listing of site characterization field activities that are currently active:

| SCP ACTIVITY | TITLE | COMMENTS |
|---------------------|--|--|
| 8.3.1.3.2.1 | Mineralogy, Petrology & Rock Chemistry of Transport Pathways | Outcrop sampling |
| 8.3.1.3.2.2 | Mineralogic & Geochemical Alteration | Outcrop sampling |
| 8.3.1.4.2.2 | Structural Features within Site Area | Surface mapping, ESF mapping |
| 8.3.1.8.5.1 | Characterization of Volcanic Features | Test pits, trenching |
| 8.3.1.14.2 | Soil & Rock Properties of Potential Location of Surface Facilities | Test pits, trenching, ramp exploration holes |
| 8.3.1.17.4.2 | Location & Recency of Faulting Near Prospective Surface Facilities | Trench mapping |
| 8.3.1.17.4.3 | Quaternary Faulting within 100 km of Yucca Mountain, Nevada | Surface mapping |
| 8.3.1.17.4.4 | Quaternary Faulting in NE-Trending Fault Zones | Surface mapping |
| 8.3.1.17.4.6 | Quaternary Faulting within Site Area | Trench mapping |

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| SCP ACTIVITY | TITLE | COMMENTS |
|--------------|--|---|
| 8.3.1.2.1.1 | Precipitation & Meteorological Monitoring for Regional Hydrology | Ongoing measurements |
| 8.3.1.2.1.2 | Runoff & Streamflow | Ongoing measurements |
| 8.3.1.2.2.1 | Unsaturated Zone Infiltration | Drilling/logging of neutron-access holes; ponding tests |
| 8.3.1.2.2.2 | Water Movement Tracer Tests | C1-36 measurements |
| 8.3.1.2.2.3 | Percolation in Unsaturated Zone | UZ drilling/testing Perched water testing |
| 8.3.1.2.2.4 | Characterization of YM Percolation in UZ-ESF Investigation | Perched water |
| 8.3.1.2.2.6 | Gaseous Phase Movement in Unsaturated Zone | UZ drilling/testing |
| 8.3.1.2.2.7 | Unsaturated Zone Hydrochemistry | UZ drilling/testing |
| 8.3.1.2.3.1 | Site Saturated Zone Groundwater Flow System | Ongoing monitoring |
| 8.3.1.2.3.2 | Saturated Zone Hydrochemistry | Ongoing sampling |
| 8.3.1.15.1.8 | In Situ Design Verification | Construction monitoring/testing |

Field testing activities will be suspended for the Christmas holidays beginning at close of business December 17, 1993, and will resume January 3, 1994.

Environmental Safety and Health Programs

Two environmental compliance surveillances were conducted at the Yucca Mountain, Nevada, site ensuring compliance with permit and programmatic requirements.

Initial reclamation, including seeding and erosion control, were completed at the neutron boreholes.

Regulatory Interactions

Issue Resolution

The next meeting of the Issue Resolution Steering group will be January 25, 1994, at 8 a.m. PST; the meeting will be a teleconference between DOE/Headquarters (HQ) and YMP. The Steering Group is currently reviewing the revised working group action plans.

License Application Annotated Outline (AO)

A meeting was held to discuss preliminary plans, including content and schedule, for the preparation of Revision 4 of the AO. Revision 4 is scheduled for completion in November 1994.

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Site Characterization Progress Report (PR)

The Office of Civilian Radioactive Waste Management (OCRWM) concurred on PR 9 last week. PR 9 has been forwarded to the Offices of General Counsel, Policy, and Congressional Affairs for concurrence. As indicated in our original schedule for producing PR 9, concurrence of these offices was requested by Friday, December 24, 1993, in order to meet our distribution date of January 31, 1994.

Not-readily-available references for PRs 7 and 8 have been assembled and will be forwarded to DOE/HQ for distribution to the U.S. Nuclear Regulatory Commission (NRC). To avoid such delay in forwarding not-readily-available references for PR 9, such references will be sent to DOE/HQ when the camera-ready copy is sent for printing.

The Technical Analysis Branch staff attended several meetings in Denver, Colorado, on December 20-21, 1993, with the Principal Investigators working on saturated zone hydrology activities. The focus of these meetings were preparation for the upcoming Program Technical Review in February 1994, and understanding fiscal year (FY) 1994 and future work scope.

The Performance Assessment (PA) staff continued consolidation of waste isolation evaluations of tracers, fluids, and materials usage for Package 1A construction for the ESF. This revision provides an integrated evaluation of potential geochemical perturbations resulting from organic material in the starter tunnel and Alcove #1.

Site Characterization Plan/Study Plan (SP) Status

No SPs were approved by Yucca Mountain Site Characterization Project Office (YMPO) this week. One SP was resubmitted to YMPO this week: SP 8.3.4.2.4.2, "Hydrologic Properties of the Waste Package Environment."

SP BREAKDOWN

| | Initial Plans | Major Revisions |
|--------------------------------------|------------------|--------------------|
| Not Submitted to YMPO..... | 37 | 0 |
| In Screening Review | 1 | 0 |
| In YMPO Review | 0 | 1 |
| Awaiting Comment Resolution | 4 | 2 |
| In Verification Audit | 5 | 1 |
| Awaiting YMPO Approval | 0 | 0 |
| Awaiting Submission to the NRC | 0 | 1 |
| Awaiting NRC Initial Review | 8 | 5 |
| Accepted by NRC | 49 | 5 |
| Totals | <u>104</u> | <u>15</u> |
| Total Submitted to NRC | 57 | 10 |

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State of Nevada Comments Status:

| | |
|--|----|
| Received Comments from the State of Nevada..... | 25 |
| Responses Transmitted to the State of Nevada | 19 |

NRC Comments Status:

| | |
|---|----|
| Received Comments from NRC | 28 |
| Responses Transmitted from DOE to NRC | 24 |

B. Project Planning and Control

Assisted the Technical and Management Support Services Training Center personnel in the development of future Planning and Control System (PACS) courses, including the mandatory training requirements for the PACS System Description.

Coordinated with Document Control in the distribution of the PACS System Description.

Performed summarization process to prepare summary schedule briefing charts from the integrated schedule data.

Conducted monthly variance analysis and coordinated with work breakdown structure (WBS) integrators.

C. Quality Assurance (QA) Implementation

No significant activities to report.

III. GENERAL INFORMATION ITEMS

Participated in Geochemistry Integration Team teleconference on December 20, 1993.

Participated in the Repository/Waste Package Design Integration Workshop in Vienna, Virginia, on December 22, 1993.

Discussion with Las Vegas, Nevada, site personnel regarding the completion of Occurrence Reporting Processing System Authority File Code changes.

Provided support to OCRWM RW-20 for development of alternative scenarios for requisition program. Participated in CRWMS M&O videoconference on December 20, 1993, to discuss status of scenario development and integration.

Participated in meeting on December 22, 1993, to discuss internal coordination of activities related to the Nuclear Waste Technical Review Board (NWTRB).

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Participated in videoconference briefing on "Focused MGDS (Mined Geologic Disposal System) Design Approach," December 22, 1993, YMP approach to Advanced Conceptual Design for MGDS.

On WBS 1.2.2.2.3 (Mechanical Attributes of the Waste Package Environment), the assessment of instrumentation for the laboratory and field block tests continued. The Lawrence Livermore National Laboratory staff visited a potential vendor to evaluate a frequency modulated (FM) laser ranging system for use in the measurement of displacements in laboratory and field tests. The FM system is promising and could be used with components of conventional multiple point borehole extensometers (MPBX) that are currently available. The laser system would circumvent many of the limitations of the conventional MPBX systems, however, it currently does not provide the required precision and needs more development.

Los Alamos National Laboratory reported that the geochemistry staff performed experiments to determine the particle load of samples from Well J-13 water. This work was conducted in collaboration with C. Degeldre of the Nationale Genossenschaft fur die Lagerung radioaktiver Abfalle project. Their results indicated that J-13 water has on the order of 1,000,000 particles/ml (suspended material greater than 100 nm in diameter). The significance of this results is the following: for Kds observed for Yucca Mountain tuffs, sorption onto particle loads of this magnitude would not contribute significantly to radionuclide transport when compared to transport of radionuclides as dissolved species.

The Sandia National Laboratories (SNL) staff continued design verification activities in the ESF North Ramp Starter Tunnel. These activities are being conducted under SP 8.3.1.15.1.8, "In Situ Design Verification." Installation of the MPBX at the 0+190 station was completed. All instrumentation, with exception of the pressure cells to be installed at the working face, has been installed and initial readings documented.

Work continued on thermal and structural analyses needed to support the ESF Design Package 2C. Thermal analyses of repository configurations are consistent with the current ESF ramp and main drift layout. The results of these analyses will be used as input to structural calculations to determine the stresses that the ESF ramps and drifts would be subjected to as a result of repository operations. This is necessary because the ESF ramps and drifts may be incorporated into a potential repository and, therefore, must be designed to meet the repository design and performance requirements.

The SNL is also conducting quasi-static and fully-dynamic seismic analyses to assess the effect of a design basis earthquake on the ESF North Ramp. This week, the combined thermal-structural and seismic analyses were completed and documented for Design Package 2C. A letter report was submitted to the YMPO on December 20, 1993 (Level 3 Milestone OS72), with the details of the analyses and the results. These results incorporate the latest site data from the North Ramp Geologic boreholes and will provide direct support for the ESF design.

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Thermal and mechanical testing of core samples from NRG-5, continued this week. All data obtained thus far has been submitted to the SNL Participant Data Archive and is available to all participants. Several transfers of data to design and PA groups have been completed under the data transfer procedures.

The SNL has submitted all documentation to the Yucca Mountain Quality Assurance Division that is required for completion of the Quality Assurance Requirements Document (QARD) transition. Concurrently, the QARD matrix was transmitted through the Requirements Tracking Network.

The SNL QA staff completed an annual evaluation of the QA program of Holometrix, Inc., to support performance of formal audits on a triennial basis.

The SNL Primary Standards Laboratory completed actions identified in a supplier evaluation conducted earlier this year and are now eligible to be placed on the YMP Qualified Supplier List.

Provided logistical and administrative support for a tour of YMP activities. The year-to-date visitor count now exceeds 6,450.

Commenced identification of Site Manager's requirements for input into JP 94-06, "Construction of Access Road and Pad for Borehole USW SD-9" and updated functional requirements to incorporate waste isolation impacts.

Continued the Administrative Procedure 5.7 inspection of the Bank of America building.

Continued advising the CRWMS M&O on National Fire Protection Association 101 Life Code interpretations.

Reviewed cement plug coring operations and cement handling procedures.

Continued oversight of rodent control program with an inspection of Building 2522 and remote environmental locations.

IV. PUBLIC OUTREACH AND INSTITUTIONAL ACTIVITIES

A tour to Yucca Mountain was conducted on December 22, 1993, for five guests from TRW Systems Integration Group.

The Institutional and External Affairs (IEA) staff completed new work on the large, free-standing ESF model at the Las Vegas Science Center. The addition of a lighting system, more detailed illustrations, and more descriptive captions are expected to make the model easier for the public to understand.

The IEA staff completed 12 information requests that were assigned by the YMP. This was accomplished by written responses, answering questions, or providing existing materials.

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V. UPCOMING EVENTS CALENDAR

Please note that the usage of "(P)" in the calendar indicates that the event is open to the public. Educational presentations and State and Public Interactions are coordinated by the Speakers Bureau; contact Jacqueline Brandt at (702) 794-7896 or Theresa Hirsch at (702) 794-7759 for additional information. Exhibits are coordinated by Joanna Magruder at (702) 794-7056, Public Update Meetings are coordinated by Jamie Elliott at (702) 794-7496, and Tours are coordinated by Carleen Hill at (702) 794-7375 or Kelly Doyle at (702) 794-7133.

| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>YMPO Contact</u> |
|--|--|--------------------------|---------------------|
| <u>A. Stakeholders Meetings</u> | | | |
| Thursday- Friday, February 10-11, 1994 | Affected Units of Government | Las Vegas, NV | A. Robison |
| <u>B. DOE/HO Meetings</u> | | | |
| No significant meetings to report. | | | |
| <u>C. CRWMS M&O/DOE Meetings</u> | | | |
| No significant meetings to report. | | | |
| <u>D. Internal and DOE/Nevada Operations Office Meetings</u> | | | |
| No significant meetings to report. | | | |
| <u>E. NRC Interactions</u> | | | |
| Tuesday - Wednesday, February 1-2, 1994 | NRC Technical Exchange and Site Visit on Erosion TR Related Topics | Las Vegas, NV | T. Bjerstedt |
| Wednesday, February 9, 1994 | NRC Technical Meeting on ESF Status | Rockville, MD | T. Bjerstedt |
| Tuesday - Wednesday, March 15-16, 1994 | NRC Technical Exchange on Status on Work Relevant to Characterization of Saturated and Unsaturated Flow | Denver, CO | T. Bjerstedt |
| Tuesday - Thursday, May 3-5, 1994 | NRC Site Visit: Surface-Based/ Underground Site Characterization Activities | Yucca Mountain, NV | T. Bjerstedt |

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| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>YMPO Contact</u> |
|--|--|------------------|---------------------|
| E. <u>NRC Interactions</u> (Continued) | | | |
| Tuesday, May 17, 1994 | NRC Meeting on Interactions Scheduling | TBD | T. Bjerstedt |
| Thursday, May 26, 1994 | NRC Technical Meeting on ESF Status and Update | Rockville, MD | T. Bjerstedt |
| Monday - Tuesday, June 20-21, 1994 | NRC Technical Exchange on Total System Performance Assessment | Rockville, MD | T. Bjerstedt |
| Tuesday - Thursday, July 26-28, 1994 | NRC Interactions: Topic TBD | TBD | T. Bjerstedt |
| Tuesday - Thursday, August 23-25, 1994 | NRC Interactions: Topic TBD | TBD | T. Bjerstedt |
| Tuesday - Thursday, September 13-15, 1994 | NRC Interactions: Topic TBD | TBD | T. Bjerstedt |
| Tuesday - Thursday, October 25-27, 1994 | NRC Interactions: Topic TBD | TBD | T. Bjerstedt |
| Monday - Wednesday, November 7-9, 1994 | NRC Interactions: Topic TBD | TBD | T. Bjerstedt |
| Tuesday - Thursday, December 6-8, 1994 | NRC Interactions: Topic TBD | TBD | T. Bjerstedt |
| F. <u>NWTRB Interactions</u> | | | |
| Tuesday- Wednesday, January 11-12, 1994 | NWTRB Full Board Meeting (P) | Arlington, VA | J. Nesbit |
| Tuesday- Wednesday, March 8-9, 1994 | NWTRB - SG&G Panel (P) (Tentative) | TBD | J. Nesbit |

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| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>YMPO Contact</u> |
|--|--|------------------|-----------------------------------|
| F. <u>NWTRB Interactions (Continued)</u> | | | |
| Monday- Wednesday, April 11-13, 1994 | NWTRB Full Board Meeting (P) | Reno, NV | J. Nesbit |
| Monday- Wednesday, July 11-13, 1994 | NWTRB Full Board Meeting (P) (Tentative) | Denver, CO | J. Nesbit |
| Wednesday- Friday, October 12-14, 1994 | NWTRB Full Board Meeting (P) (Tentative) | Las Vegas, NV | J. Nesbit |
| G. <u>Advisory Committee on Nuclear Waste Interactions</u> | | | |
| No significant meetings to report. | | | |
| H. <u>National Academy of Sciences (NAS) Interactions</u> | | | |
| Monday- Tuesday, February 7-8, 1994 | NAS Committee on Yucca Mountain Standards (P) | TBD | S. Jones |
| Thursday- Friday, April 28-29, 1994 | NAS Committee on Yucca Mountain Standards (P) | TBD | S. Jones |
| I. <u>State and Public Interactions</u> | | | |
| Friday, December 31 | Widowed Persons Group - General Overview | Las Vegas, NV | J. Peck |
| Tuesday, January 4, 1994 | Elaine Wynn Elementary School - Native American Culture | Las Vegas, NV | R. Arnold |
| Friday, January 7, 1994 | National Park Service - Native American Culture | Lake Mead, NV | R. Arnold |
| Saturday, January 8 1994 | JASON Project Teacher Workshop - Mapping and Caving | Las Vegas, NV | C. Newbury D. Hoxie L. Cuba |
| Wednesday, January 12, 1994 | Red Rock Visitors' Center - Native American Culture | Red Rock, NV | R. Arnold |

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| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>Speaker</u> |
|---|---|------------------|------------------------|
| I. <u>State and Public Interactions (Continued)</u> | | | |
| Wednesday, January 12, 1994 | Sierra Club - General Overview | Las Vegas, NV | J. Peck |
| Friday, January 14, 1994 | Fay Herron Elementary School - "Gee Whiz Science" | Las Vegas, NV | J. Blink |
| Friday, January 14, 1994 | G. C. Wallace Engineers & Architects - General Overview | Las Vegas, NV | J. Peck |
| Saturday, January 15, 1994 | Amargosa Valley Girl and Boy Scouts - Geology Workshop | Las Vegas, NV | TBD |
| Tuesday, January 18, 1994 | Roy Martin Junior High School - Botany | Las Vegas, NV | K. Wirtz |
| Tuesday, January 18, 1994 | 4-H T.E.C. - Native American Culture | Las Vegas, NV | R. Arnold |
| Wednesday, January 19, 1994 | Roy Martin Junior High School - Native American Culture | Las Vegas, NV | R. Arnold |
| Wednesday, January 19, 1994 | George Harris Elementary School - Yucca Mountain Johnny | Las Vegas, NV | J. Hartley |
| Wednesday, January 19, 1994 | Elko County Commissioners - General Overview/ Transportation | Elko, NV | B. Bush P. Standish |
| Thursday, January 20, 1994 | 4-H T.E.C. - Native American Culture | Las Vegas, NV | R. Arnold |
| Friday, January 21, 1994 | Nevada Regional Science Bowl - Training | Las Vegas, NV | TBD |
| Friday, January 21, 1994 | Johnson Junior High School - "Gee Whiz Science" | Las Vegas, NV | J. Blink |

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| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>Speaker</u> |
|---|--|---------------------|------------------------|
| I. <u>State and Public Interactions</u> (Continued) | | | |
| Tuesday, January 25, 1994 | Johnson Junior High School - Paleontology | Las Vegas, NV | A. Gil |
| Tuesday, January 25, 1994 | Green Valley High School Key Club - General Overview | Las Vegas, NV | A. Robison |
| Tuesday, January 25, 1994 | Yucca Mountain Speaker Series (P) - "Constructing a Tunnel to Study a Mountain" | Las Vegas, NV | D. McKenzie J. Peck |
| Thursday, January 27, 1994 | Yucca Mountain Speaker Series (P) - "Constructing a Tunnel to Study a Mountain" | Beatty, NV | D. McKenzie J. Peck |
| Friday, January 28, 1994 | Ute Perkins Elementary School - Native American Culture | Moapa, NV | R. Arnold |
| Saturday, January 29, 1994 | Amargosa Valley Girl and Boy Scouts - Geology Field Trip | Las Vegas, NV | TBD |
| Wednesday, February 2, 1994 | C. P. Squires Elementary School - Energy | N. Las Vegas, NV | E. Harle |
| Thursday, February 3, 1994 | Cannon Middle School - Native American Culture | Las Vegas, NV | R. Arnold |
| Thursday, February 3, 1994 | ASCE/Engineering Design for the Community - General Overview/Emphasis on Engineering | Irvine, CA | D. Kessel |
| Friday, February 4, 1994 | University of Nevada Las Vegas - Native American Culture | Las Vegas, NV | R. Arnold |
| Friday- Sunday, February 11-13, 1994 | 1994 Nevada Regional High School Science Bowl | Las Vegas, NV | E. Harle |

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| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>Speaker</u> |
|---|---|------------------|----------------|
| I. <u>State and Public Interactions</u> (Continued) | | | |
| Saturday, February 12, 1994 | Girl Scouts - Geology Merit Badge Workshop | Las Vegas, NV | Various |
| Tuesday, February 22, 1994 | Yucca Mountain Speaker Series (P) - "Fossils Tell a Story" | Las Vegas, NV | A. Gil |
| Thursday, February 24, 1994 | Yucca Mountain Speaker Series (P) - "Fossils Tell a Story" | Beatty, NV | A. Gil |
| Sunday, February 27, 1994 | Waste Management Symposia - TBD | Tucson, AZ | TBD |
| Monday- Saturday, February 28- March 12, 1994 | JASON Project - "Rain Forest" | Las Vegas, NV | E. Harle |
| Sunday, March 20, 1994 | Risk Management Quarterly Association - TBD | San Diego, CA | TBD |
| Sunday, March 27, 1994 | Yucca Mountain Speaker Series (P) - "Desert Beauties - Spring Wildflowers" | Pahrump, NV | K. Wirtz |
| Tuesday, March 29, 1994 | Yucca Mountain Speaker Series (P) - "Desert Beauties - Spring Wildflowers" | Las Vegas, NV | K. Wirtz |
| Saturday, April 2, 1994 | Girl Scouts - Geology Merit Badge Workshop | Las Vegas, NV | Various |
| Tuesday, April 5, 1994 | Science and Mountains Teacher Workshop | Las Vegas, NV | E. Harle |
| Thursday, April 7, 1994 | Science and Mountains Teacher Workshop | Las Vegas, NV | E. Harle |
| Monday, April 11, 1994 | Critical Thinking Teacher Workshop | Las Vegas, NV | E. Harle |

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| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>Speaker</u> |
|---|---|-------------------|-----------------|
| I. <u>State and Public Interactions</u> (Continued) | | | |
| Tuesday, April 12, 1994 | Science and Mountains Teacher Workshop | Las Vegas, NV | E. Harle |
| Thursday, April 14, 1994 | Critical Thinking Teacher Workshop | Las Vegas, NV | E. Harle |
| Saturday, April 16, 1994 | Critical Thinking Teacher Workshop | Las Vegas, NV | E. Harle |
| Saturday, April 16, 1994 | Science and Mountains Teacher Workshop | Las Vegas, NV | E. Harle |
| Monday, April 18, 1994 | Critical Thinking Teacher Workshop | Las Vegas, NV | E. Harle |
| Sunday, April 24, 1994 | Yucca Mountain Speaker Series (P) - "Eating Your Way Through a Mountain" | Pahrump, NV | L. Destwolinski |
| Tuesday, April 26, 1994 | Yucca Mountain Speaker Series (P) - "Eating Your Way Through a Mountain" | Las Vegas, NV | L. Destwolinski |
| Tuesday, May 31, 1994 | LESSON Teacher Workshop - Science Workshop | Las Vegas, NV | TBD |
| Saturday, June 4, 1994 | Girl Scouts - Geology Merit Badge Workshop | Las Vegas, NV | Various |
| Sunday, June 12, 1994 | Southeast Area Regulatory Utility Commissioners Conference - TBD | Charleston, SC | TBD |
| Monday, June 13, 1994 | LESSON Teacher Workshop - Science Workshop | Las Vegas, NV | TBD |
| <u>Date</u> | <u>Event</u> | <u>Location</u> | |

J. Exhibits Scheduled

None scheduled.

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| <u>Date</u> | <u>Event</u> | <u>Escorts</u> |
|---|--|-----------------|
| K. <u>Tours Scheduled</u> | | |
| Thursday, January 6, 1994 | Inyo County | TBD |
| Tuesday, January 11, 1994 | Amargosa Middle School | TBD |
| Wednesday, January 12, 1994 | YMP Orientation Tour | A. Stephenson |
| Thursday, January 13, 1994 | Massachusetts Institute of Technology/U.C. Berkeley | TBD |
| Saturday, January 22, 1994 | Public Open House (P) | Various Escorts |
| Monday, January 31, 1994 | Steering Committee on High-Level Radioactive Waste Project - Japan | TBD |
| Tuesday - Wednesday February 1-2, 1994 | NRC | TBD |
| Friday, February 4, 1994 | American Nuclear Energy Council | TBD |
| Thursday, February 10, 1994 | Conference of Radiation Control Program Directors Committee on Radioactive Materials Transportation | TBD |
| Wednesday, February 16, 1994 | Quannah McCall Sixth Grade Center | TBD |
| Friday, February 18, 1994 | South Mountain High School | TBD |
| Wednesday, February 23, 1994 | Fremont Middle School | TBD |

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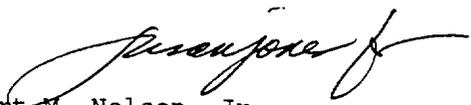
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| <u>Date</u> | <u>Event</u> | <u>Escorts</u> |
|---------------------------------------|---|-----------------|
| K. <u>Tours Scheduled</u> (Continued) | | |
| Saturday, February 26, 1994 | Public Open House (P) | Various Escorts |
| Wednesday, March 2, 1994 | Fremont Middle School | TBD |
| Tuesday, March 8, 1994 | St. Cloud State University (MN) | TBD |
| Thursday, March 10, 1994 | Laughlin High School | TBD |
| Saturday, March 19, 1994 | Public Open House (P) | Various Escorts |
| Tuesday, March 29, 1994 | W. Mac Lyon Middle School | TBD |
| Thursday, March 31, 1994 | National Council, State Garden Club Specific Region Convention | TBD |
| Tuesday, April 12, 1994 | Thurman White Middle School | TBD |
| Friday, April 15, 1994 | Desert Survivors | TBD |
| Saturday, April 16, 1994 | Public Open House (P) | Various Escorts |
| Wednesday, April 20, 1994 | Cannon Junior High School | TBD |
| Thursday, April 28, 1994 | Garside Junior High School | TBD |
| Thursday, May 12, 1994 | CVT Gilbert Sixth Grade Center | TBD |

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| <u>Date</u> | <u>Event</u> | <u>Escorts</u> |
|---------------------------------------|---|----------------|
| K. <u>Tours Scheduled</u> (Continued) | | |
| Thursday, May 19, 1994 | Western High School | TBD |
| Monday, May 23, 1994 | American Society for Quality Control Conference | TBD |

YMP:RVB-1419.


Robert M. Nelson, Jr.
Acting Project Manager