



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

Reply to:
301 E. Stewart Ave., #203
Las Vegas, NV 89101

Tel: (702) 388-6125

TO: Joseph Holonich, Director, HLPD, M/S 4 H 3
FROM: Sr. On-Site Licensing Representatives Office, Las Vegas
DATE: AUGUST 10, 1993
SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE
WEEK ENDING JULY 23, 1993

Please find enclosed the above-referenced report.

There is nothing requiring specific management attention in the report.

cc: w/enc.: Charlotte Abrams, M/S 4 H 3
Rosetta Virgilio, M/S 3 D 23
Dean Kunihiro, Region 5

JSP:nan
Enclosure as stated

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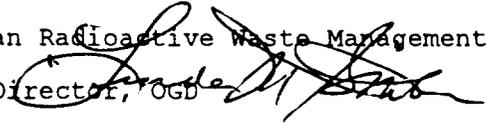
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Department of Energy
Yucca Mountain Site Characterization
Project Office
P. O. Box 98608
Las Vegas, NV 89193-8608

WBS 1.2.9.2
QA: N/A

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Lake H. Barrett, Acting Director, Civilian Radioactive Waste Management,
HQ (RW-1) FORS
THRU: Linda M. Smith, Acting Associate Director, OGD 

OFFICE OF GEOLOGIC DISPOSAL WEEKLY HIGHLIGHTS FOR THE WEEK ENDING
JULY 23, 1993 (SCP: N/A)

I. FORECAST SIGNIFICANT EVENTS

A. Site Characterization Activities

Exploratory Studies Facility (ESF)

The 90 percent design review for Design Package 2A will continue through the week. Preparations will continue for the 90 percent review for Design Package 1B, which will begin on August 2, 1993.

Construction will continue in the Starter Tunnel, including placement of shotcrete and installation of cement grouted pattern bolts. This work must be completed before excavation of the Starter Tunnel bench begins.

The Underground Construction Subcontract award is awaiting U.S. Department of Energy/Headquarters (DOE/HQ) approval.

Surface-Based Testing (SBT) Activities

Performance Assessment staff will be participating in the Hydrology Integration Task Force Meeting on July 26, 1993. Among the technical areas to be considered are: the importance of two-phase flow, effects of site heterogeneity on relative and bulk permeability, and how mineral coatings and alteration rinds affect fracture/matrix interaction.

Sample Management Facility (SMF)

The staff will be providing drilling support on USW UZ-14 and on UE-25 NRG-2B which is scheduled to start the week of July 26, 1993.

Standard geophysical logging suite will be performed on UE-25 UZ-16 from July 26-30, 1993.

Environmental Programs

The staff will be conducting environmental compliance surveillances and processing various activity preactivity requests to ensure protection of the environment, as required by the Yucca Mountain Site Characterization Project (YMP) Administrative Procedures (AP).

The staff will be processing revisions to AP 8.1, necessary to streamline the environmental approval process, through the Quality Assurance Procedure (QAP) 6.2 document review process.

B. Public Outreach and Institutional Activities

A Public Open House tour of Yucca Mountain (YM), Nevada, will be conducted on July 24, 1993, for approximately 200 people. Tour participants will visit the Las Vegas Yucca Mountain Information Office (YMIO), the Field Operations Center (FOC), two laboratories, the LM-300 drill rig, the top of YM and the ESF north portal construction area.

A. C. Robison, Yucca Mountain Site Characterization Project Office (YMPO), will give a general Project overview to members of the Washoe County Commission on July 26, 1993, in Reno, Nevada.

Institutional and External Affairs (IEA) staff will attend the National Conference of State Legislatures annual meeting and will set up and staff the DOE/HQ exhibit at the conference in San Diego, California, July 26-28, 1993.

II. CRITICAL ITEM STATUS - YMP

A. Site Characterization Activities

ESF

Construction

Preparations are underway for the beginning of excavation of the lower section, or "bench" of the Tunnel Boring Machine (TBM) starter tunnel. The first bench round is expected to be shot on August 2, 1993.

Construction is continued on the stormwater diversion channel around the north portal area.

The following milestones represent the near-term plan for ESF activities:

Award Subcontract for Underground Construction	July 1993
Begin 90 Percent Design Review, Package 1B	August 2, 1993
Complete 60 Meters of TBM Starter Tunnel	September 20, 1993

Reynolds Electrical & Engineering Co., Inc. (REECO), is scheduled for shotcreting and the grouting in of rock bolts for the next few days, catching up to the headwall.

Systematic Drillhole (SD)-12

Further evaluation of site is in progress. A revision of the area needing environmental surveys is scheduled.

Ghost Dance Fault and Solitario Canyon

Solitario Canyon excavation is tentatively scheduled to start August 2, 1993.

Design

The 50 percent management and independent technical reviews of Design Package 1B (Surface Facilities, North Portal) and Design Package 2 (North Ramp - Surface to Topopah Spring Level) are substantially complete. Design continues on Package 1B for 90 percent review scheduled in August 1993. The 90 percent review for Package 2B began as scheduled on July 19, 1993.

SBT Activities

On Job Package (JP) 92-17, which is currently being drilled with the LM-300 drill rig, the cored depth is 1141.66 feet; the 12 1/4-inch reamed hole is at 1121.56 feet.

On JP 93-2A, NRG-4, drilling continues with the failing 1500 drill rig. The core depth is at 365 feet with the Odex casing at 256.76 feet.

A video survey started July 22, 1993, on UZ-16. The work program has been transmitted for review and comments.

On JP 92-21, C-Hole Complex Pump Test, comments are being resolved from the combined management and independent technical review for the electrical system and the spreading basin specifications, as well as the work program. The work program is expected to be approved shortly.

On JP 92-20, ESF North Portal Pad and Facilities staff is installing and grouting pattern bolts and applying fibercrete. The next excavation round on the lower or "bench" level of the Starter Tunnel is scheduled to be shot on August 2, 1993. The face of the pilot drift and the north and south slashes are at 00+60.4 meters (1+98 feet).

The Site Manager and FOC staff participated in and provided logistical support to three major tours this reporting period. Three major tours are scheduled for next week, including the public open house and site tour on July 24, 1993.

Exploratory drilling operations progress is summarized as follows:

<u>Borehole</u>	<u>Ending Core Depth 7/23/93</u>
UZ-14	1,161.67 feet

Plans call for UZ-14 to begin two shifts tentatively starting July 26, 1993. U.S. Geological Survey (USGS) has requested Lawrence Livermore National Laboratory's (LLNL) water probe truck to be mobilized to the UZ-14 site.

NRG-4 was completed July 21, 1993, with an ending depth of 726.00 feet. The NRG-7 Pad should be ready for occupancy by October 1, 1993. Raytheon Services Nevada (RSN) has to flag the north ramp alignment so that the borehole can be staked with appropriate standoff.

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SMF

Drilling support (DS) geologists continued supporting drilling on USW UZ-14 and collected and logged core and cuttings from 1062 feet to 1182 feet.

DS geologists continued supporting drilling on UE-25 NRG-4 and collected and logged core from 649 feet to a total depth of 726 feet. The borehole is completed.

The SMF processed core and cuttings from USW UZ-14 and UE-25 NRG-4.

Four core examinations were conducted at the SMF by Sandia National Laboratories (SNL) and the USGS.

The staff continued converting Branch Technical Procedures to Implementing Line Procedures and revising APs to incorporate new Quality Assurance Requirements and Description (QARD) requirements.

The video camera was run from surface to water table in UE-25 UZ-16 on July 22, 1993.

The staff provided monitoring and oversight of prototype drilling tool development activities currently being conducted at the Colorado School of Mines.

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	Surface mapping
8.3.1.17.4.4	Quaternary Faulting in NE-Trending Fault Zones	Surface mapping
8.3.1.17.4.10	Geodetic Leveling	Traversing
8.3.1.17.4.6	Quaternary Faulting within Site Area	Trench mapping
8.3.1.2.1.1	Precipitation & Meteorological Monitoring for Regional Hydrology	Ongoing measurements
8.3.1.2.1.2	Runoff & Streamflow	Ongoing measurements

SCP ACTIVITY	TITLE	COMMENTS
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
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

Environmental Programs

The Environmental Programs staff conducted three environmental compliance surveillances at the YM site to ensure that site characterization activities are being performed in compliance with permit and programmatic requirements, and continued to process six preactivity survey requests, as required by AP 8.1.

The staff participated in the design review for the TBM and associated systems.

The staff attended the National Park Service sponsored coordination meeting concerning environmental impacts to the Devil's Hole pupfish and the Ash Meadows National Wildlife Refuge.

The staff completed revision of AP 5.38 and submitted the response to the RW-332 audit to HQ.

Regulatory Interactions

Site Characterization Progress Report (PR)

Site Characterization PR 8 is still in concurrence at DOE/HQ.

Mined Geologic Disposal System Annotated Outline (AO)

A meeting was held July 20, 1993, with the DOE Work Breakdown Structure (WBS) managers and reviewers with the scope of the AO and the content of Revision 3. The participants have designated reviewers; participant review is scheduled to begin August 17, 1993.

Issue Resolution

The Ground Water Travel Time Working Group held a teleconference July 23, 1993, to discuss plans to work toward clarification of regulatory uncertainty related to the issue.

Technical Analysis

Performance Assessment and Technical Analysis Branch (TAB) staff helped set up and participate in the telecon meeting of the Ground Water Travel Time Issue Resolution Working Group on July 21, 1993. Specific consideration of potential revisions and clarification of CFR 960 were discussed as well as long-term changes.

TAB staff attended an AO briefing on July 20, 1993. Revision 3 of the AO, which concentrates on Chapter 3, "The Natural System of the Geologic Setting," will be ready for DOE review in September 1993. The meeting purpose was to familiarize WBS managers with the AO and its function, and prepare reviewers for their tasks. Presentations focused on the purpose, scope and development of the AO, the use of InfoSTREAMS in AO review, and the content of Revision 3.

Performance Assessment and TAB staff participated in the DOE bilateral exchange with the Spanish Empresa Nacional de Residuos Radioactivos, South America (ENRESA) Spain, program on July 22-23, 1993. An overview was provided of the Civilian Radioactive Waste Management Systems Management and Operating Contractor's (CRWMS M&O) function and of performance assessment activities.

Performance Assessment staff is completing a waste isolation evaluation for tracers, fluids and materials used in the 69 kV power system at the North Portal Pad. This evaluation is one of several systems being evaluated for the Package 1B 90 percent design review.

Site Characterization Plan/Study Plan (SP) Status

One revision, SP 8.3.1.15.1.3, Revision 1, "Laboratory Determination of the Mechanical Properties of Intact Rock," was submitted to YMPO this week.

STUDY PLAN BREAKDOWN

	Initial Plans	Major Revisions
Not Submitted to YMPO	38	0
In Screening Review	0	1
In YMPO Review	3	0
Awaiting Comment Resolution	3	4
In Verification Audit	5	3
Awaiting YMPO Approval	1	1
Awaiting Submission to the U.S. Nuclear Regulatory Commission (NRC)	0	0
Awaiting NRC Phase 1 Review	11	0
Accepted by NRC	43	5
Totals	<u>104</u>	<u>14</u>
Total Submitted to NRC	54	5

State of Nevada Comments Status:

Received Comments from the State of Nevada..... 19
 Responses Transmitted to the State of Nevada 18

NRC Comments Status:

Received Comments from NRC 24
 Responses Transmitted from DOE to NRC 20

B. Project Planning and Control

The Project Control Division support staff analyzed cost, schedule and at-completion variances and developed Variance Analysis Reports for WBS elements with variances exceeding established cost, schedule, and at-completion variance thresholds for fiscal year 1993 through June 1993.

Developed SD-12 preliminary schedule.

Supported large block test coordination.

Prepared and distributed Planning and Control System (PACS) management report books to DOE management containing June 1993 PACS performance data.

Prepared and distributed PACS performance reports to functional managers for their use in preparing the monthly management meeting presentations.

The staff is developing NRG-7 preliminary schedule.

C. Quality Assurance (QA) Implementation

Determination of Importance and Grading Enhancement

Quality (Q)-List Procedure Development

Review of draft responses to Assessment Team (AT) comments on CRWMS M&O classification processes and products continues

Q-List and Management Control (MC)-List Implementation

The analysis/evaluation packages for all natural barriers are at AT concurrence.

A revision to the Q-List and the initial issue of the MC-List continues in the QAP 6.2 review process. Both continue in verification review.

Revision 1 of the Q-List will be ready for YMPO approval upon completion of verification review.

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Waste Isolation Evaluations Review

Further development of the process flowchart for performing and reviewing waste isolation evaluations is ongoing.

D. Public Outreach and Institutional Activities

Gave a general project overview to 50 people at the Institute of Nuclear Materials Management in Scottsdale, Arizona, on July 19, 1993. Also, gave a Project overview with emphasis on new work status and geology to 25 members of the Fresno Geological Society on July 22, 1993, in Fresno, California.

Carl Gertz, Project Manager, gave a general Project update to three members of the City of Las Vegas Committee on Yucca Mountain Nuclear Waste Repository on July 19, 1993, in Las Vegas, Nevada.

Gave a YM educational presentation to 90 students at Dorothy Eisenberg Elementary School in Las Vegas on July 19, 1993.

Richard Arnold, a consultant, gave a presentation on Native American Indian culture at Charter Hospital in Las Vegas on July 22, 1993.

Tours to YM were conducted on July 19, 1993, for two reporters from KVBC-TV, Channel 3; on July 20, 1993, for nine CRWMS M&O employees; and on July 23, 1993, for 15 guests from ENRESA.

The IEA personnel staffed an exhibit during "Mining Days," July 17, 1993, in Battle Mountain, Nevada. Approximately 50 people received information about the project.

The CRWMS M&O and IEA staff gave an educational presentation on electricity, radiation and the geology of YM to 100 fifth grade students from C. T. Sewell Elementary School at the Las Vegas YMIO in Las Vegas on July 21, 1993.

Fifteen students from the University of California, Santa Barbara, visited the Las Vegas YMIO on July 23, 1993. Richard Arnold gave a presentation on Native American Indian culture and Jeanne Cooper, YMPO, gave a technical presentation to the group.

The IEA and YMPO staff attended the Section 803 public meeting at the University of Nevada, Las Vegas on July 20, 1993, in Las Vegas. The IEA and YMPO staff also attended the Site Development Planning meeting with Nye County officials in Las Vegas, on July 21, 1993, and an affected county record information system meeting in Las Vegas on July 22, 1993.

III. Analysis and Verification Division

No input this week.

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IV. GENERAL INFORMATION ITEMS

LLNL staff met with P. Gottlieb, J. Peters, P. Mariner and J. Houseworth (CRWMS M&O), to discuss concerns regarding organic materials in general. They also reviewed the present diesel fuel experiments and visited the organic materials experimental facilities. Interest was expressed in obtaining information regarding the stability of hydraulic fluids. J. Peters agreed to supply information regarding the range of hydraulic fluids that may be used during the construction of the ESF.

Los Alamos National Laboratory (Los Alamos) staff met with representatives of the Spanish Radioactive Waste Management company, ENRESA; presented an overview of Los Alamos YMP activities; and initiated future technical exchanges with key Spanish research personnel.

Los Alamos staff reported that 30 thin sections were prepared and are being evaluated for possible microautoradiography experiments. The goal of these experiments will be to provide sufficient post-radiography analysis to specify the nature of trace-mineral interactions with transuranic radionuclides.

Los Alamos also reported the x-ray diffraction analysis was completed for a suite of outcrop samples for alteration history studies. Sample preparation and analysis continued on the core materials from UE-25 UZ-16 and USW NRG-6.

A paper by Bruce Robinson entitled, "SORBEQ - A One-Dimensional Model for Simulating Column Transport Experiments," was submitted to YMPO for review and approval. When approved, this compilation of the documentation written during the development of the SORBEQ application will be published as a Los Alamos report. SORBEQ is a one-dimensional finite difference model of solute transport.

Calculations of water flow and transport of radionuclides in the revised saturated zone model have been run out to 5,000 years. Break through curves have been generated at the accessible environment boundary (5 km) for various times in the 5,000-year sequence. Additional runs are being set up for years past 5,000.

The thermal history calculations have been ported to the Cray and both in-drift scenarios should be available by early next week. Repository coverages required for the problem set-ups have been completed. New stratigraphic column locations have been plotted and the geostatistical simulations required to generate the new columns will be completed in several days.

New core data, including lithology and revised stratigraphic information from USW UZ-16, were received by SNL. The SNL models will be updated using this information and run to predict variation in volumetric water content with depth. The results will be discussed at a meeting with Golder Associates in Seattle, Washington, in August 1993.

The SNL staff accompanied YMPO field, design and safety staff to stake the location for the first borehole (SD-12) in the Systematic Drilling Program. Drilling is expected to commence early next fiscal year upon completion of the UZ-14 hole. The SD-12 hole will be drilled using the LM-300 rig.

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Technical & Management Support Services (T&MSS) submitted eight closed Nonconformance Report packages to the Las Vegas Local Records Center this week.

T&MSS is on schedule with the implementation of the Office of Civilian Radioactive Waste Management (OCRWM) QARD, at 96 percent complete. Full implementation is scheduled for July 30, 1993. The implementation process is documented in the implementing document and the Requirements Traceability Network database. Yucca Mountain Quality Assurance Division (YMQAD) has scheduled an audit of T&MSS on September 27-30, 1993.

T&MSS received YMQAD acceptance of the "T&MSS Organizational Description" last week. The "T&MSS QA Policy" and "QA Program Overview" documents were submitted to YMQAD for information.

Trench excavations were completed at BMT-1 along the Bare Mountain Fault in western Crater Flat. The trench will be studied to determine the history of faulting events along the Bare Mountain front. The study will contribute to the understanding of the formation of Crater Flat and the uplift history of Bare Mountain. These issues are critical for the tectonic model of YM.

The 252-page report, "Water Levels in Continuously Monitored Wells in the YM Area, Nevada, 1985-1988," was received from the printer and distributed.

USGS Saturated Zone staff attended the second Devil's Hole workshop sponsored by the National Park Service. A. Riggs discussed his diving activity in Devil's Hole, his interpretation of how the feature formed, and the excellent climate record spanning over 500,000 years that was obtained from Devil's Hole. R. Luckey discussed recent and near-future site characterization activities of interest to the National Park Service, Fish and Wildlife Service, and the Las Vegas Valley Water District.

Saturated Zone staff continued to work on securing a motor lead for the pump that will be used for testing at the C-Well complex. At issue is the interpretation of the National Electric Code requirement for grounding a pump. The safety officer's position is that industry-standard techniques do not meet DOE safety requirements. No supplier has been found that has an acceptable off-the-shelf motor lead; a lead could be custom-manufactured, but getting it UL (or other laboratory) accepted would take many months. Unless this problem is solved soon, testing at the C-Well complex will be seriously delayed again. This same problem will preclude other activities scheduled to begin soon, e.g., cleaning of the WT-wells and testing of well USW G-2.

Unsaturated Zone staff report that the packers for gas sampling at UE-25 UZ-16 (VSP-2) have been assembled. Gas sampling from selected depths will start about the middle of August 1993 when geophysical logging is completed.

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USGS and U.S. Bureau of Reclamation provided mapping information and structural details to assist Hydrologic Investigations Program investigators in positioning an alcove off the North Ramp drift. The alcove will be used for air permeability experiments. Structural details are critical for selection of a representative location for the alcove and associated radial boreholes.

USGS began examination of thin sections from mapped welded ash flow tuff in the Rhyolite of Calico Hills.

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 Rebecca Nick at (702) 794-7769, 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>
A. <u>DOE/HQ Meetings</u>			
No significant meetings this week.			
B. <u>CRWMS M&O/DOE Meetings</u>			
Thursday, July 29	YMPO Monthly Management Meeting	Las Vegas, NV	C. Gertz
Wednesday, August 4	CRWMS M&O Program Management Review	Las Vegas, NV	L. Smith/ C. Gertz
C. <u>Internal and DOE/Nevada Field Office (NV) Meetings</u>			
Friday, July 30	Technical Project Officer Meeting	Las Vegas, NV	C. Gertz
Friday, July 30	Planning and Budget Meeting	Las Vegas, NV	C. Gertz
D. <u>NRC Interactions</u>			
Tuesday- Wednesday, July 27-28	Technical Exchange - ESF Title II Design and Design Control (P)	Las Vegas, NV	T. Bjerstedt
Tuesday, August 24	Technical Exchange - Substantially Complete Containment & Waste Package/ Engineered Barrier System (EBS) Design Concepts (P)	Washington, DC	T. Bjerstedt

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
D. <u>NRC Interactions</u> (Continued)			
Wednesday, October 13	Technical Exchange - Radioactive Migration in the Unsaturated Zone (P)	Albuquerque, NM	T. Bjerstedt
Thursday, October 14	Technical Exchange - Near-Field Phenomena Related To Radio- nuclide Releases from the EBS (P)	Albuquerque, NM	T. Bjerstedt
Friday, October 15	Los Alamos Site Visit (P)	Los Alamos, NM	T. Bjerstedt
Wednesday, November 17	Interactions Scheduling Management Meeting (P)	Washington, DC	T. Bjerstedt
Thursday, November 18	Seismic Hazards Assessment Technical Meeting (P)	Washington, DC	T. Bjerstedt
E. <u>Nuclear Waste Technical Review Board (NWTRB) Interactions</u>			
Tuesday- Friday, October 19-22	NWTRB Full Board Meeting (P)	Las Vegas, NV	J. Cooper
Monday- Tuesday, November 1-2	NWTRB Joint T&S/ EBS Panel Workshop (P)	TBD	J. Cooper
Monday- Wednesday, January 10-12, 1994	NWTRB Full Board Meeting (P) (Tentative)	Arlington, VA	J. Cooper
Monday- Wednesday, April 11-13, 1994	NWTRB Full Board Meeting (P) (Tentative)	Reno, NV	J. Cooper
Monday- Wednesday, July 11-13, 1994	NWTRB Full Board Meeting (P) (Tentative)	Denver, CO	J. Cooper
Wednesday- Friday, October 12-14 1994	NWTRB Full Board Meeting (P) (Tentative)	Las Vegas, NV	J. Cooper

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
F. <u>Advisory Committee on Nuclear Waste (ACNW) Interactions</u>			
Wednesday- Thursday, August 25-26	ACNW 56th Meeting (P)	TBD	A. Gil
Wednesday- Thursday, September 29-30	ACNW 57th Meeting (P)	TBD	A. Gil
Wednesday- Thursday, October 27-28	ACNW 58th Meeting (P)	Las Vegas, NV	A. Gil
Monday- Tuesday, November 22-23	ACNW 59th Meeting (P)	TBD	A. Gil
Wednesday- Thursday, December 15-16	ACNW 60th Meeting (P)	TBD	A. Gil
G. <u>National Academy of Sciences (NAS) Interactions</u>			
Thursday- Friday, August 26-27	NAS Committee on Yucca Mountain Standards-Alternative Formulations of a Risk-Based Standard (P)	Las Vegas, NV	S. Jones
<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
H. <u>State and Public Interactions</u>			
Monday, July 26	Washoe County Commission	Reno, NV	A. Robison
Tuesday, July 27	Yucca Mountain Lecture Series (P)	Las Vegas, NV	T. Loughhead
Wednesday, July 28	American Nuclear Society (ANS) Teacher Workshop	Deerfield, MA	B. Reilly/ J. Peck
Monday, August 2	U.S. Council on Energy Awareness Energy Information Centers	Chicago, IL	C. Gertz
Monday- Friday, August 2-6	Desert Explorers Camp, YMCA	Las Vegas, NV	Various Speakers

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
H. <u>State and Public Interactions</u> (Continued)			
Wednesday, August 4	Pretour, Rocky Flats, Area Station Managers	Las Vegas, NV	TBD
Friday, August 6	University of Utah	Brianhead, UT	TBD
Monday- Tuesday, August 9-10	Desert Explorers Camp, YMCA	Las Vegas, NV	Various Speakers
Wednesday, August 11	Air Waste Management Assn.	Las Vegas, NV	P. Standish
Thursday, August 12	Second International New Avenues in Risk and Crisis Management Conference	Las Vegas, NV	TBD
Tuesday, August 17	1993 American Institute of Chemical Engineers Summer National Meeting	Seattle, WA	TBD
Wednesday, August 18	Second International Mixed Waste Symposium	Baltimore, MD	TBD
Friday, August 20	Loyal Order of the Moose	Pahrump, NV	K. Beall
Tuesday, August 24	Yucca Mountain Lecture Series (P)	Las Vegas, NV	D. Rakestraw K. Rautenstrauch
Thursday, August 26	Yucca Mountain Lecture Series (P)	Beatty, NV	D. Rakestraw K. Rautenstrauch
Wednesday- Thursday, September 1-2	C. P. Squires Elementary	N. Las Vegas, NV	R. Arnold
Monday- Tuesday, September 6-7	C. P. Squires Elementary	N. Las Vegas, NV	R. Arnold
Tuesday, September 7	International Atomic Energy Course	TBD	TBD
Friday, September 10	Public Gas Service Gas Company	TBD	TBD
Monday, September 13	Entergy Energy Corporation	Las Vegas, NV	TBD

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
H. <u>State and Public Interactions</u> (Continued)			
Sunday, September 26	Yucca Mountain Lecture Series (P)	Pahrump, NV	D. Sorensen
Sunday, September 26	Children's Discovery Museum	Las Vegas, NV	R. Arnold
Monday, September 27	1993 I&EC Division Symposium	Atlanta, GA	TBD
Tuesday, September 28	Yucca Mountain Lecture Series (P)	Las Vegas, NV	D. Sorensen
Tuesday, October 5	Sun City Residents	Las Vegas, NV	TBD
Monday, November 15	ANS	San Francisco, CA	TBD
Sunday, February 27, 1994	Waste Management Symposia	Tucson, AZ	TBD
Sunday, March 20, 1994	Risk Management Quarterly Association	San Diego, CA	TBD

<u>Date</u>	<u>Event</u>	<u>Location</u>
I. <u>Exhibits Scheduled</u>		
Saturday, August 21	Public Open House (P)	Las Vegas, NV
Wednesday- Sunday, August 25-29	Nevada State Fair (P)	Reno, NV
Thursday- Monday, September 2-6	Tri-County Fair (P)	Bishop, CA
Friday- Monday, September 3-6	Elko County Fair (P)	Elko, NV
Wednesday- Friday, September 15-17	Nevada League of Cities	Henderson, NV
Friday- Sunday, September 17-19	Harvest Day Festival (P)	Pahrump, NV

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<u>Date</u>	<u>Event</u>	<u>Location</u>
I. <u>Exhibits Scheduled (Continued)</u>		
Sunday- Wednesday, September 19-22	American Society for Quality	Palm Springs, CA
Saturday, September 25	Public Open House (P)	Las Vegas, NV
Wednesday- Saturday, September 29- October 2	Nevada Library Association	Elko, NV
Friday- Sunday, October 1-10	Jaycee State Fair (P)	Las Vegas, NV
Saturday, November 6	Boy Scouts Expo	Las Vegas, NV
<u>Date</u>	<u>Event</u>	<u>Escorts</u>
J. <u>Tours Scheduled</u>		
Saturday, July 24	Public Open House (P)	Various Escorts
Tuesday, July 27	DOE Cooperative Student Forum	G. McNeely
Thursday, July 29	State of Minnesota Department of Public Service	TBD
Wednesday, August 4	Rocky Flats, Area Station Managers	TBD
Thursday, August 5	OCRWM Communicators Meeting	B. Crowe/ M. Wadkins
Friday, August 6	Military Order of Laos	P. Carmack
Tuesday, August 10	Las Vegas YMCA Desert Explorers	TBD
Thursday, August 12	New York Power Authority	TBD
Tuesday, August 17	American Nuclear Energy Council	TBD

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<u>Date</u>	<u>Event</u>	<u>Escorts</u>
J. <u>Tours Scheduled</u> (Continued)		
Tuesday, August 17	CRWMS M&O Interns	R. Cameron
Saturday, August 21	Public Open House (P)	Various Escorts
Monday, September 13	Senior Tripsters	TBD
Monday, September 20	Waste Package Development Workshop	R. Fish
Saturday, September 25	Public Open House (P)	Various Escorts
Tuesday, September 28	Southern Nevada Chevron Retirees Association	TBD
Tuesday, September 28	Entergy Energy Group	D. Bradford
Thursday, September 30	League of Women Voters	TBD
Friday, October 1	Chubu Electric Power, Japan	TBD
Tuesday, October 19	National Association of Regulatory Utility Commissioners	TBD
Wednesday, October 20	Wildland Shrub and Arid Land Restoration Symposium	K. Ostler
Saturday, October 23	Public Open House (P)	Various Escorts

YMP:RVB-5390


 Carl P. Gertz
 Project Manager