



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 18, 1993
SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE
WEEK ENDING JULY 30, 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

NOTE TO CHARLOTTE: The SNL YMSCP Monthly Highlights and Status Report for
June 1993 is also enclosed.

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Department of Energy
Yucca Mountain Site Characterization
Project Office
P. O. Box 98608
Las Vegas, NV 89193-8608
AUG 1 1 1993

WBS 1.2.9.2
QA: N/A

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 30, 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. 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. Excavation is expected to begin on the lower, or "bench" section, of the Starter Tunnel.

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

Sample Management Facility (SMF) will continue providing drilling support (day and swing shifts) on USW UZ-14 and UE-25 NRG-2B; continue geophysical logging activities on UE-25 UZ-16; and continue Schmidt Hammer testing on NRG-3, NRG-4, NRG-2, and NRG-6 core.

The EG&G Energy Measurements, Inc. (EG&G) will implement the safety guidelines being published by the Center for Disease Control (CDC) in Atlanta, Georgia, for rodent handling. This may involve respirator fitting for our staff.

B. Public Outreach and Institutional Activities

Carl Gertz, Project Manager, will give a new work update to 65 participants of the U.S. Council on Energy Awareness (USCEA) Energy Information Centers Workshop on August 2, 1993, in Chicago, Illinois.

II. CRITICAL ITEM STATUS - YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT (YMP)

A. Site Characterization Activities

ESF

Construction

Preparations are underway for the beginning of excavation of the lower section (bench) of the Tunnel Boring Machine (TBM) Starter Tunnel.

On Job Package (JP) 92-20, ESF North Portal Pad and Facilities, rework continued of the north drainage channel, as well as installation of pattern bolts and fibercrete. The next excavation round on the lower or "bench" level of the Starter Tunnel is scheduled to be shot on August 5, 1993. The schedule was extended to accommodate installation of test instrumentation for construction monitoring, completion of installation of rockbolts between 00+45.7 meters (1+50 feet) and 00+60.4 meters (1+98 feet), and a revision to the sequence for removing the bench level of the Starter Tunnel.

Reynolds Electrical and Engineering Co., Inc. (REECO) was shotcreting and grouting in rockbolts, catching up to the headwall.

Geologic mapping in the Starter Tunnel have been completed to station 1+97. Also, the tunnel face was mapped at 1+97. Photography for future photogrammetric analysis was completed to station 1+97.

Construction is continuing on the stormwater diversion channel around the North Portal area.

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

Complete Formal 90 Percent Design Review, Package 2A	August 1993
Award Subcontract for Underground Constructor	August 1993
Begin 90 Percent Design Review, Package 1B	August 2, 1993
Complete 60 Meters of TBM Starter Tunnel	September 22, 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 the 90 percent review scheduled in August 1993. The 90 percent review for Package 2A, which began on July 19, 1993, continues.

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Surface-Based Testing Activities

Exploratory drilling operations progress is summarized as follows:

<u>Borehole</u>	<u>Ending Core Depth</u> <u>7/30/93</u>
UZ-14	1,241.73 feet
NRG-4	365.00 feet

The Site Manager finalized the study on the requirements for the cost savings for the site landfill at Area 25. The study was then given to Project Manager Carl Gertz.

Field activities progress for the week is as follows:

UZ-14

The core depth of UZ-14 is 1,241.73 feet. Core recovery ranged from about 59 to 99 percent, averaging 84 percent. A small amount of water was detected in the core at 1,212.0 feet and 1,214.5 feet. If moist or wet conditions are encountered, the Principal Investigator (PI), Joe Rousseau, is available on site or will be within 30 minutes after being paged. Joe Rousseau has requested that 5-foot core runs be made until the hole has reached, but not drilled out of, the base of the vitrophyre. If water has been encountered before that mark, the drilling will be stopped and testing performed for perched water.

UZ-16

Regarding UZ-16, two kinds of geophysical logging were performed, dual induction and natural gamma ray. Light plants were on site for round-the-clock activity. No problems were reported with equipment or support. Logging at the end of this week was a little behind schedule.

NRG-4

Drilling at NRG-4 was completed as of July 26, 1993. The equipment was demobilized from the drill site. A locking cap was installed and the Cal-Seal plug placed. Surveyors requested the key to perform surveys, but could not unlock the stand pipe at the drill hole.

Ghost Dance Fault and Solitario Canyon

Estimates were received from REECO and they were forwarded to Timothy Sullivan, Yucca Mountain Site Characterization Project Office (YMPO). Solitario Canyon excavation was tentatively scheduled to start on August 2, 1993, but has now been postponed at least a week.

NRG-2B

Drilling equipment was mobilized to the site and crews began drilling July 30, 1993.

NRG-7

The pad should be ready for occupancy by October 1, 1993. Raytheon Services Nevada laid out the centerline of the tunnel alignment in the vicinity of NRG-7. A tentative hole location was marked, and the locations will be discussed with the PI, REECo drilling, and others.

SD-9

The tunnel centerline was staked. A tentative hole location was marked and the location/site was discussed.

Six core examinations were conducted at the SMF by Sandia National Laboratories (SNL), the U.S. Geological Survey (USGS), and Los Alamos National Laboratory (Los Alamos).

Removed 133 specimens from core samples for various analyses performed by PIs.

Completed Schmidt Hammer testing on UE-25 NRG-1, NRG-2A, and NRG-5 core.

General

The staff participated in the U.S. Environmental Protection Agency (EPA) Working Group meeting in Las Vegas on July 27, 1993; revised framework for considerations in developing EPA standard.

Regarding Work Breakdown Structure 1.2.2.3.1.1, Waste Form Testing - Spent Fuel (Spent Fuel Dissolution), the last subset of eight Uranium Oxide (UO₂) dissolution experiments in the Lawrence Livermore National Laboratory initial UO₂ flow-through test matrix were completed at the prescribed test matrix conditions. These results will provide additional data to test intrinsic UO₂ dissolution models that are developed.

On July 27, 1993, Los Alamos hosted the Technical Data Parameter Dictionary meeting with representatives from DOE; the DOE representatives met with all Los Alamos PIs.

David Vaniman of Los Alamos reported that the 30 thin sections prepared for microautoradiography experiments were forwarded to the Los Alamos Isotope and Nuclear Chemistry Division for exposure to Np-bearing fluids.

SAND88-7054, "Processes, Mechanisms, Parameters, and Modeling Approaches for Partially Saturated Flow in Soil and Rock Media," by J. S. Y. Wang and T. N. Narasimhan, has been printed and released. The document discusses conceptual models and mathematical equations, analyses distributions and correlations among hydrologic parameters of soils and tuffs; introduces new path integration approaches; and outlines scaling procedures to model potential-driven fluid flow in heterogeneous media. All of this information forms the basis for calculations of aqueous flow. The specific goal of this work was to detail an approach to quantify uncertainties and generate cumulative distribution functions for ground-water travel times.

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Two data sets developed by SNL for use in the Total System Performance Assessment were transmitted to INTERA for use in RIP: the breakthrough curves generated for the five kilometers boundary to the accessible environment in the saturated zone; and distributions for porosity values in the unsaturated zone.

Experiments are currently being designed to provide data sets for nonisothermal model development and validation. Testing of the flow visualization experimental chamber for nonisothermal experiments has begun. Initial tests have examined thermally driven flow under both saturated and partially saturated conditions. Parallel numerical simulations using the TOUGH2 code have been used to provide insight on preliminary test results and on design of boundary conditions for the experiment.

The TOUGH2, Version 1.0 code was qualified for use and is being used in running the parallel numerical simulations above.

The Field Operations Department staff submitted the report on Building 4015 evacuation procedures in response to weaknesses identified during evacuation practices. Computerized floor plans of Building 4015 were developed for emergency management and other Field Operations Center programs. The staff also commenced revision of Administrative Procedure 2.9, Occurrence Reporting System.

Field Test Facilities Support staff completed a preparation of the report on "Preliminary Analysis of Solid Waste Disposal Options." This analysis compared the costs and regulatory requirements of continuing the current practice of using Nevada Test Site (NTS) facilities and services against the option of constructing a dedicated landfill facility in Area 25.

A white paper was prepared on proposed modifications to the JP cost and schedule thresholds under Field Change Control Board approval.

Four Safety and Health compliance surveillances were performed: UZ-14, UZ-16, ESF water tanks, and Building 4522 ventilation hood system.

Field work was conducted this week to evaluate the Rock Valley Fault zone. Geologic mapping, fault slip analysis, and geomorphic characterization were conducted on several related left-lateral faults that form the northeast trending, Rock Valley Fault system. Data collected will be used to determine the locations, orientations, lengths, and widths of faults within the system, as well as the amounts and recurrence rates of Quaternary displacements. This information is important to characterization of the seismic hazard at Yucca Mountain (YM), Nevada, and to clarify tectonic activity at the site area.

Staff from the Rock Characteristics Section has prepared a table describing Tiva Canyon Tuff rock textures of samples from the south flank of Antler Ridge, YM, Nevada. The table summarizes criteria used to differentiate subunits within the Tiva Canyon Tuff. Criteria are based on shard shape, devitrification textures, and vapor phase mineralization of the shardy groundmass. This information is being prepared for presentation at the Mineralogy/Petrology integration meeting scheduled for August 5, 1993, at Los Alamos.

A meeting was held with USGS, U.S. Bureau of Reclamation, and Los Alamos personnel to select tentative locations in the ESF for the testing alcove. The first test alcove was located at 1+50 for the radial borehole test.

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
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	Cl-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

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Environmental Programs

Received an additional air quality permit from the Nevada Division of Environmental Protection for operation of one additional drill rig necessary for site characterization studies. Also, received modifications to the LM-300 and Failing 1500 drill rig system permits to increase the hours of operation.

Transmitted the draft YMP Self Assessment Implementation Plan to DOE/HQ (RW-332) for review.

Conducted six environmental compliance surveillances at the YM site to ensure compliance with permit and programmatic requirements.

The small mammal trapping conducted for the radiological monitoring program was shut down following notification that a case of the hanta virus illness was reported from the Round Mountain area. This virus is the suspected cause of several deaths in the Southwest. The CDC is in the process of publishing recommended safety guidelines for rodent handlers. The EG&G will review these guidelines and implement them as necessary to ensure the safety of our workers.

Completed this year's field data collection for vegetation studies.

Regulatory InteractionsSite Characterization Progress Report (PR)

The PR 8 was held up in the offices of General Counsel and the Secretary. The Secretary is expected to approve the document during the week of August 9, 1993. The revised distribution date for PR 8 is now August 27, 1993.

Mined Geologic Disposal System (MGDS) Annotated Outline (AO)

Participants have identified reviewers for Revision 3 of the MGDS AO; the participant and concurrent internal Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O) review is scheduled to begin on August 17, 1993.

Issue Resolution

The Substantially Complete Containment Working Group held several meetings and teleconferences this week in preparation for the Technical Exchange with the U.S. Nuclear Regulatory Commission (NRC) on August 24, 1993. The agenda has been finalized, and presenters are preparing for the final preparation meeting scheduled for August 12, 1993, in the YMP Conference Room 202.

Technical Analysis

Members of the Technical Analysis Branch (TAB) and Performance Assessment (PA) participated in the Hydrology Integration Task Force meeting in Las Vegas, Nevada, on July 26, 1993.

The PA staff are working to deliver the following waste isolation evaluations for the ESF Package 1B 90 percent design review: 69 kV Power and Feeder System, Shop Building, Sewer System, Subsurface Waste Water System, Explosives Storage Area, and H-Road widening and paving.

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The TAB and PA staffs held a planning session on a generic approach for Waste Isolation/Test Interference evaluation on July 30, 1993.

Site Characterization Plan/Study Plan (SP) Status

The NRC completed Phase I review of SP 8.3.1.4.3.1, Revision 1, "Systematic Acquisition of Site-Specific Subsurface Information."

STUDY PLAN BREAKDOWN

	Initial Plans	Major Revisions
Not Submitted to YMPO	38	0
In Screening Review	0	0
In YMPO Review	2	1
Awaiting Comment Resolution	4	4
In Verification Audit	5	2
Awaiting YMPO Approval	1	2
Awaiting Submission to 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

Completed preliminary development of NRG-7 JP schedules.

C. Quality Assurance Implementation

YMPO Audit, YMP-93-15, will be held the week of August 9, 1993.

YMPO Surveillance 93-037, Flowdown of Requirements, will be held at the site August 11-17, 1993.

REECo and CRWMS M&O Surveillance 93-038, Processing and Disposition of Nonconformance Reports, will be held at the site August 9-13, 1993.

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

The analysis/evaluation packages for all natural barriers were approved by the Assessment Team.

A revision to the Q-List and the initial issue of the MC-List completed the Quality Assurance Procedure 6.2 review process and these are ready for YMPO approval.

D. Public Outreach and Institutional Activities

A Public Open House tour of YM was arranged and conducted on July 24, 1993, for approximately 206 people.

Tours to YM were conducted on July 27, 1993, for 30 guests of the DOE Cooperative Student Forum, and on July 29, 1993, for two guests from the State of Minnesota, Department of Public Service.

A. C. Robison gave a general YMP overview to members of the Washoe County Commission on July 26, 1993, in Reno, Nevada.

The YM Lecture Series, "Waste Isolation Pilot Plant (WIPP)--Storing Radioactive Transuranic Waste," was presented by Paul Dickmann of WIPP's Public Affairs Office, at the Yucca Mountain Information Offices in Pahrump, Nevada, on July 25, 1993, and in Las Vegas, Nevada, on July 27, 1993. Total attendance for these presentations was approximately 30 people.

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

The IEA staff members gave a technical presentation and a presentation on public outreach at the American Nuclear Society (ANS) Teacher Workshop in Deerfield, Massachusetts, on July 28, 1993.

III. 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>Stakeholders Meetings</u>			
Tuesday, August 10	Stakeholders Workshop	Las Vegas, NV	L. Smith

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B. DOE/HQ Meetings

Thursday, September 16	HQ Program Management Meeting	Washington, DC	L. Smith/ C. Gertz
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C. CRWMS M&O/DOE Meetings

Wednesday, August 4	CRWMS M&O Program Management Review	Vienna, VA	L. Smith/ C. Gertz
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D. Internal and DOE Nevada Operations Office (NV) Meetings

Wednesday, August 18	NV Managers Program Review	Las Vegas, NV	C. Gertz
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E. NRC Interactions

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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Wednesday, October 13	Technical Exchange - Radioactive Migration in the Unsaturated Zone (P)	Albuquerque, NM	T. Bjerstedt
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Thursday, October 14	Technical Exchange - Near-Field Phenomena Related To Radio- nuclide Releases from the EBS (P)	Albuquerque, NM	T. Bjerstedt
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Friday, October 15	Los Alamos Site Visit (P)	Los Alamos, NM	T. Bjerstedt
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Wednesday, November 17	Interactions Scheduling Management Meeting (P)	Washington, DC	T. Bjerstedt
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Thursday, November 18	Seismic Hazards Assessment Technical Meeting (P)	Washington, DC	T. Bjerstedt
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F. Nuclear Waste Technical Review Board (NWTRB) Interactions

Tuesday- Friday, October 19-22	NWTRB Full Board Meeting (P)	Las Vegas, NV	J. Cooper
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Monday- Tuesday, November 1-2	NWTRB Joint T&S/ EBS Panel Workshop (P)	TBD	J. Cooper
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H. Barrett

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<u>F. NWTRB Interactions (Continued)</u>			
Monday- Wednesday, January 10-12, 1994	NWTRB Full Board Meeting (P)	Arlington, VA	J. Cooper
January or February 1994	NWTRB - SG&G Panel	TBD	J. Cooper
Monday- Wednesday, April 11-13, 1994	NWTRB Full Board Meeting (P)	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
<u>G. Advisory Committee on Nuclear Waste (ACNW) Interactions</u>			
Wednesday- Thursday, September 29-30	ACNW 56th Meeting (P)	TBD	A. Gil
Wednesday- Thursday, October 27-28	ACNW 57th Meeting (P)	Las Vegas, NV	A. Gil
Monday- Tuesday, November 22-23	ACNW 58th Meeting (P)	TBD	A. Gil
Wednesday- Thursday, December 15-16	ACNW 59th Meeting (P)	TBD	A. Gil
<u>H. National Academy of Sciences (NAS) Interactions</u>			
Thursday- Friday, August 26-27	NAS Committee on YM Standards- Alternative Formulations of a Risk-Based Standard (P)	Las Vegas, NV	S. Jones
Tuesday- Wednesday, November 9-10	NAS Committee on YM Standards	TBD	S. Jones

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
H. <u>NAS Interactions (Continued)</u>			
Thursday- Friday, December 16-17	NAS Committee on YM Standards	TBD	S. Jones
Monday- Tuesday, February 7-8, 1994	NAS Committee on YM Standards	TBD	S. Jones
Thursday- Friday, April 28-29, 1994	NAS Committee on YM Standards	TBD	S. Jones

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
I. <u>State and Public Interactions</u>			
Monday, August 2	USCEA Energy Information Centers	Chicago, IL	C. Gertz
Monday- Friday, August 2-6	Desert Explorers Camp, YMCA	Las Vegas, NV	Various Speakers
Wednesday, August 4	NTS Pretour, Rocky Flats Area Station Managers	Las Vegas, NV	A. Gil
Friday, August 6	University of Utah	Brianhead, UT	A. Robinson
Wednesday, August 11	Air Waste Management Association	Las Vegas, NV	P. Standish
Thursday, August 12	Second International New Avenues in Risk and Crisis Management Conference	Las Vegas, NV	C. Gertz
Thursday, August 12	4-H T.E.C.	Las Vegas, NV	J. Peck
Friday, August 13	Charter Hospital	Las Vegas, NV	P. Standish
Tuesday, August 17	1993 American Institute of Chemical Engineers Summer National Meeting	Seattle, WA	C. Gertz
Thursday, August 19	Second International Mixed Waste Symposium	Baltimore, MD	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
I. <u>State and Public Interactions (Continued)</u>			
Friday, August 20	Loyal Order of the Moose	Pahrump, NV	K. Beall
Tuesday, August 24	YM Lecture Series (P)	Las Vegas, NV	D. Rakestraw K. Rautenstrauch
Thursday, August 26	YM 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	Argonne, IL	TBD
Friday, September 10	Public Gas Service Gas Company	New Brunswick, NJ	TBD
Tuesday, September 21	Pretour, Western Legislative Conference	Las Vegas, NV	TBD
Sunday, September 26	YM 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	Pretour, Entergy Energy Corporation	Las Vegas, NV	TBD
Tuesday, September 28	Pretour, Southern Nevada Chevron Retirees Association	Las Vegas, NV	TBD
Tuesday, September 28	YM Lecture Series (P)	Las Vegas, NV	D. Sorensen
Thursday, September 30	Pretour, League of Women Voters	Las Vegas, NV	TBD

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
I. <u>State and Public Interactions (Continued)</u>			
Friday, October 1	Pretour, Chubu Electric Power, Japan & Radio- active Waste Management Center, Japan	Las Vegas, NV	TBD
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>
J. <u>Exhibits Scheduled</u>		
Thursday- Friday, August 5-6	Transportation Institutional Task Force	Albuquerque, NM
Friday- Sunday, August 13-15	Eureka County Fair	Eureka, NV
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)	Inyo, CA
Friday- Monday, September 3-6	Elko County Fair (P)	Elko, NV
Wednesday- Friday, September 15-17	Nevada League of Cities	Las Vegas, NV
Friday- Sunday, September 17-19	Harvest Day Festival (P)	Pahrump, NV

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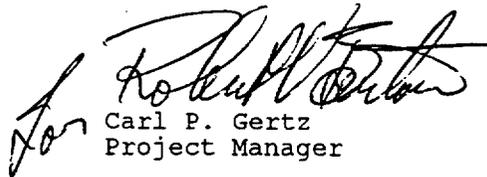
<u>Date</u>	<u>Event</u>	<u>Location</u>
J. <u>Exhibits Scheduled</u> (Continued)		
Sunday- Wednesday, Sept 19-22	American Society for Quality	Palm Springs, CA
Saturday, September 25	Public Open House (P)	Las Vegas, NV
Wednesday- Saturday, September 29- October 2	Nevada Library Association	Elko, NV
Friday- Sunday, October 1-10	Jaycee State Fair (P)	Las Vegas, NV
Wednesday- Friday, October 13-15	NACO	Pahrump, NV
Saturday, November 6	Boy Scouts Expo	Las Vegas, NV
Sunday- Wednesday, November 14-17	ANS	San Francisco, CA

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
K. <u>Tours Scheduled</u>		
Friday, August 6	Military Order of Laos	P. Carmack
Thursday, August 12	New York Power Authority	TBD
Tuesday, August 17	American Nuclear Energy Council	TBD
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
Tuesday, September 21	Western Legislative Conference	D. Bradford

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<u>Date</u>	<u>Event</u>	<u>Escorts</u>
K. <u>Tours Scheduled (Continued)</u>		
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 and Radioactive Waste Management Center, Japan	TBD
Tuesday, October 12	Sun City Senior Citizens	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-5500


 for Carl P. Gertz
 Project Manager