



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: MARCH 12, 1993
SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE
WEEK ENDING MARCH 5, 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: Also enclosed is the January, 1993, Monthly Highlights
and Status Report from Sandia National Laboratories and
the February 1993 Status Report from REECo.

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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

MAR 08 1993

Lake H. Barrett, Acting Director, Civilian Radioactive Waste Management,
HQ (RW-1) FORS

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING
March 5, 1993

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

A. Site Characterization Planning

Field Operations

The Site Manager and Field Operations Center staff participated in and provided logistical support for two major tours this reporting period.

On Job Package (JP) 92-3, UZ-16, drilling continues with the LM-300 drill rig. As of March 1, 1993, Reynolds Electrical & Engineering Co., Inc. (REECo), had cored to a depth of 1620.22 feet. The 12 1/2-inch ream is down to 1598.04 feet.

Drilling continues with the Joy 1 rig at NRG-6. As of March 1, 1993, REECo had cored to a depth of 1047.96 feet with no reaming operations. Drilling should be completed by March 3, 1993. The swing shift schedule is completed. REECo drilling is mobilizing for beginning Neutron Access Borehole N-62 on top of Yucca Mountain, Nevada.

On JP 92-20, Exploratory Studies Facility (ESF) North Portal Pad and Facilities, REECo continued hauling and compacting from Borrow Pit 1 to the ESF pad, excavation of the north drainage channel, and removal and storage of topsoil at Borrow Pit 1.

Sample Management Facility (SMF)

Drilling operations were supported for UE25 UZ-16 and USW NRG-6. Processing of core and cuttings from UE25 UZ-16 and USW NRG-6 continued.

Processing of specimens from USW NRG-6 continued for the U.S. Geological Survey (USGS) and Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O).

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Twelve specimens from USW NRG-6 were shipped to New England Research Institute under Site Characterization Plan (SCP) Study Plan (SP) 8.3.1.14.2.2.

Johnson Controls photographed 96 boxes of NRG-6 core on March 2, 1993.

An internal Technical and Management Support Services (T&MSS) safety review of the SMF was completed.

Regulatory Interactions

Issue Resolution

The topical report on the absence of extreme erosion at Yucca Mountain is undergoing final comment verification at the Yucca Mountain Site Characterization Project Office (YMPO) before approval and printing of the document.

Mined Geologic Disposal System Annotated Outline (MGDS AO)

The U.S. Nuclear Regulatory Commission (NRC) comments on the second iteration of the MGDS AO were received and are being considered by the U.S. Department of Energy (DOE).

Site Characterization Progress Report (PR)

The guidance letter for PR 8 has been prepared and is currently in YMPO concurrence. This letter will be sent to DOE/Headquarters (HQ) and the participants on March 3, 1993. Participants input for the report is due to YMPO by March 30, 1993.

Technical Analysis

The Quarterly Technical Data Base Working Group meeting will be held on March 4, 1993, to discuss the following with the participants: status of the Technical Data Parameter Dictionary development, revision of the Technical Data Management Plan, and participant issues and concerns.

ESF Task Force Activities

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

Award Tunnel Boring Machine (TBM) Contract	April 1993
Start Excavating TBM Launch Chamber	April 2, 1993
Award Subcontract for Underground Construction	June 1993

SCP/SP Status

A minor revision to SP 8.3.1.8.5.1, Revision 1, "Characterization of Volcanic Features," was approved by YMPO. One SP completed the NRC Phase I review: SP 8.3.1.17.4.5, "Detachment Faults at or Proximal to Yucca Mountain."

STUDY PLAN BREAKDOWN

In Screening Review	0
In YMPO and DOE/HQ Review	0
Awaiting Comment Resolution	13
Awaiting Author Revision	5
In YMPO/HQ Verification Audit	3
Preparing to Submit or Awaiting YMPO Approval	2
Awaiting Submission to the NRC	0
NRC Phase 1 Review	19
NRC Acceptance	37
Total	79

SCP/SP Status:

Total SPs Assigned to Cover 106 Studies	104
SPs Not Yet Submitted for Review	36
SPs Submitted for Initial Review	68
Revised SPs Submitted for Review	5
Revised ESF SPs Submitted for Review	6
Total SPs Submitted for Review	79

State of Nevada Comments Status:

Received Comments from the State of Nevada	17
Responses Transmitted to the State of Nevada	11

NRC Comments Status:

Received Comments from NRC	19
Responses Transmitted from OGD to DOE/HQ	16

B. Project Planning and Control

The staff worked with the CRWMS M&O functional managers to develop summary level schedule briefing charts from current Planning and Control System (PACS) data.

Guidelines were developed for Variance Analysis Report (VAR) reviews to be used internally for the planning function. This is intended to improve the quality and consistency of the VARs.

A meeting and training session for PACS Participant Work Station (PWS) operators were conducted. The training covered the new release of PACS PWS software Version 3.1 and the revised user manual. Also, the formation of the Hardware/Software User Group was introduced with a discussion on future requirements and support.

C. Quality Assurance (QA) Implementation

The CRWMS M&O Audit YMP-93-07 is in progress. Seven observers are participating in the audit. In addition to the audit, two auditors and observers will be auditing Records and Operations at the YMPO Field Office.

Surveillance 93-019, "Raytheon Services Nevada Field Surveying Activities," is in progress.

The Yucca Mountain Quality Assurance Division (YMQAD) staff are preparing technical directives to delineate the requirements for participants to establish and maintain viable QA programs.

The YMQAD staff continues to support development of the Requirements Traceability Network as a priority task. This support is provided to ensure timely transition to the Office of Civilian Radioactive Waste Management (OCRWM) Quality Assurance and Requirements Description (QARD). The staff are providing support to the line organization in the areas of impact analysis and procedure reviews. Transition to the new QARD is scheduled for completion in August 1993.

The YMQAD Director is attending the Contracting Officer's Representative Course in Seattle, Washington. The course will provide highlights of the role/authority of the Contracting Officer Representative.

Determination of Importance and Grading Enhancement

Implementation

The Analysis/Evaluation Package for the Early Classification of Natural Barriers, including Assessment Team (AT) recommendations, was not transmitted as planned last week. Based on a briefing of the contents to the YMP Deputy Project Manager, the AT recommendations were revised and the package was sent to YMPO on March 3, 1993.

The AT completed review of a preliminary draft of the CRWMS M&O Probabilistic Risk Assessment Plan for classification and determination of importance evaluations on underground openings.

The AT review comments of the first four Determination of Importance Evaluations (DIE) developed under the CRWMS M&O DIE process were submitted to YMPO on March 5, 1993.

Development of the basis for operation of the AT following cancellation of Administrative Procedure 6.17Q is continuing.

D. Public Outreach and Institutional Activities

Various YMP employees supported the DOE Nevada Regional High School Science Bowl February 26-28, 1993, in Las Vegas, Nevada. A total of 32 teams competed for the regional title. Meadows School took first place and will now prepare for the National Science Bowl in Washington, D.C., scheduled for April 1993.

Staff members from T&MSS and CRWMS M&O supported the YMP educational exhibit at the Parent Funshop Day, presented by the East Area Educational Collaborative and The Neighborhood Learning Center on February 27, 1993, at Thurman White Middle School in Las Vegas. Approximately 600 individuals were in attendance.

James Blink, Lawrence Livermore National Laboratory (LLNL), gave an educational science presentation to 240 students at the Meadows Elementary School in Las Vegas on March 1, 1993.

Project Manager Carl Gertz, Jean Younker, CRWMS M&O, April Gil, YMPO, Jeremy Boak, YMPO, and Beatrice Reilly, T&MSS, presented papers for the Waste Management '93 Conference in Tucson, Arizona, on March 2, 1993. The Institutional and External Affairs (IEA) staff set up and staffed a YMP exhibit at the Waste Management '93 Conference February 28 - March 4, 1993. Approximately 600 people visited the displays.

Tours to Yucca Mountain were conducted on March 2, 1993, for 30 guests of the University of Goteborg; on March 3, 1993, for 20 students from Science and Engineering Research Semester; on March 4, 1993, for 35 guests of the Breakfast Exchange Club and for 25 guests of the National Conference of State Legislatures (NCSL); and on March 5, 1993, for approximately 40 guests of the Waste Management '93 Conference.

A. C. Robison, YMPO, gave a pretour briefing to guests of the NCSL and Carl Gertz gave a follow-up presentation to the group on March 5, 1993.

Paul Standish, T&MSS, provided general overviews to the Elko Rotary Club and the Elko Desert Sunrise Rotary Club March 3-4, 1993, in Elko, Nevada. Approximately 140 people were in attendance.

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The YMPO staff supported the Jason Telepresence Project which is being held at Cheyenne High School in Las Vegas March 1-13, 1993.

A. C. Robison gave a presentation to the Northern Nevada Nuclear Waste Study Group in Reno, Nevada, on March 1, 1993. The IEA staff accompanied him.

The IEA staff finalized the YMP video news release for February 1993.

The first YMP educational newsletter was completed and distributed to over 8,500 teachers in Clark and Nye County schools.

The 32-page booklet, "DOE's Yucca Mountain Studies," was distributed to approximately 6,000 individuals and organizations this week.

The IEA staff made final arrangements for Mineral County and T&MSS staff to tour the Waste Isolation Pilot Plant on March 10, 1993.

II. ANALYSIS & VERIFICATION DIVISION

No significant activities to report.

III. GENERAL INFORMATION ITEMS

LLNL

Regarding Work Breakdown Structure 1.2.5.4.2, Waste Package Performance Assessment, modeling has been done to determine whether spent fuel-cladding breach will occur for a variety of repository configurations. The phenomenon involves the temperature history of the cladding, stress from internal gas pressure, and creep toward eventual failure of the cladding by creep rupture. The creep rate is strongly temperature dependent. Some repository configurations will preserve a median spent-fuel rod from creep rupture and some will not. For example, a configuration with 21 PWR assemblies per package, 33 GWdays/MTU burnup, 30-year age at emplacement, and 72-foot spacing of packages will give creep only up to about 25 percent of the limit, and has an areal mass loading (AML) of 71 MTU/acre (about 1.5 times the SCP Conceptual Design Report AML), enough to provide substantial dryout of the host rock within and above the repository.

Los Alamos National Laboratory (Los Alamos)

David Vaniman reported that a preliminary draft paper on the distribution of potentially-hazardous minerals in the subsurface at Yucca Mountain is being prepared. Data on quantitative mineralogy are being compared to the guidelines published by the International Association for Research on Cancer.

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Bruce Crowe and staff conducted field work at Lathrop Wells volcanic center to check field relations of volcanic units. They also conducted preliminary measurements (using the cosmogenic [cosmogenic] helium method) on another summit bomb at the Lathrop Wells center. Their results are consistent with an age of 30-35 ka.

Processing of 55 rock samples from UZ-16 (surface to 1170-foot depth) began this week to develop a chloride profile for this hole and to serve as an initial screening for the selection of a subset of these for chlorine-36 analysis.

Sandia National Laboratories (SNL)

Planning continued for fielding the construction monitoring activities in the ESF north ramp starter tunnel. These activities will be conducted under SP 8.3.1.15.1.8, "In Situ Design Verification." The SNL staff submitted detailed test plans to the Los Alamos Test Coordinator. These included identification of interfaces and support required from other organizations and a complete identification of all tracers, fluids, and materials to be used in the construction monitoring activities. This information will form the basis for the Test Planning and JPs.

Two analyses to support the design of the North Ramp were initiated. The first analysis will evaluate the thermal loading on the North Ramp from a potential repository. The second will evaluate the structural stability of the ramp at various locations along its length. The results of these analyses will provide input to the 90 percent design package.

T&MSS

The staff is proceeding on schedule with the QA programmatic transition to the implementation of the OCRWM QARD, DOE/RW-30-0333P in accordance with the transition plan submitted to YMOAD on January 29, 1993. A T&MSS/Science Applications International Corporation (SAIC) Document Revision Task Plan is approved and a Task Manager, Kent Johnson, is assigned to provide functional direction to the task. A task kick-off meeting with responsible managers was held on March 2, 1993.

The T&MSS/SAIC QA organization audited Teledyne Isotopes Corporation and prepared for two additional external vendor audits.

USGS

The staff continued digitizing sonic logs from Railroad Valley, which will allow computation of accurate depth versus time curves for key exploration wells along seismic reflection lines near the prolific Grant Canyon oil field. Preliminary analysis of sonic velocities indicates that the Late Cenozoic valley-fill values can vary from below 7000 feet per second to almost 15,000 feet per second and that

every well should be digitized (if the logs were run) rather than depend on a single or a few generalized depth versus time curves for this valley. USGS has digitized approximately 20 sonic well logs. Density, gamma ray, and other logs are also being selectively digitized in order to help identify formations which are seldom identified in other reports. Very high velocities are found near the Grant Canyon field, which appear to be associated with high bottom hole temperatures, indicative of a strong hydrothermal or convective flow system.

The staff completed digitizing data from the Topopah Spring Member. This step completes the first phase in integrating computer-interactive lithostratigraphic surface and subsurface information for use in visualizing the complex interplay of thickness and facies variations in lithostratigraphic units, and disruption of these units by faults.

The water table in Borehole UE25 UZ-16 was reached between 1,609 and 1,614 feet below land surface. Water samples were collected for general chemistry and age dating. The current deepening effort is designed to determine what impact coring and reaming below the water table has on the completed unsaturated section of the borehole.

IV. 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 Genevieve McNeill at (702) 794-7116, Public Update Meetings are coordinated by Joanna Magruder at (702) 794-7056, and tours are coordinated by Carleen Hill at (702) 794-7375 or Bradley Bush at (702) 794-5347.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
A. <u>DOE/HQ Meetings</u>			
Tuesday- Wednesday, March 16-17	Quarterly Program Review	Video- Conference	C. Gertz
B. <u>CRWMS M&O/DOE Meetings</u>			
Wednesday, March 21	CRWMS M&O Review	Las Vegas, NV	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
C. <u>Internal and DOE Nevada Field Office (DOR/NV) Meetings</u>			
Wednesday, March 10	Technical Project Officer Meeting	Las Vegas, NV	C. Gertz
Wednesday, March 10	Planning and Budget Meeting	Las Vegas, NV	C. Gertz
Wednesday, March 17	DOE/NV Monthly Program Review	Las Vegas, NV	C. Gertz
D. <u>NRC Interactions</u>			
Monday, May 17	Technical Exchange - Program Planning and Integration (P)	Video- Conference	T. Bjerstedt
Tuesday, May 18	Technical Exchange - OCRWM Technical Baseline Documents (P)	Video- Conference	T. Bjerstedt
Tuesday- Wednesday, May 25-26	NRC Site Visit (P)	Las Vegas, NV	T. Bjerstedt
Monday, June 7	NRC Management Meeting for Interactions Scheduling (P)	Las Vegas, NV	T. Bjerstedt
Tuesday, June 8	Technical Exchange - Geophysics Integration (P)	Las Vegas, NV	T. Bjerstedt
Wednesday, June 9	Technical Exchange - Volcanism (P)	Las Vegas, NV	T. Bjerstedt
Wednesday, July 28	Technical Exchange - ESF Title II Design (P)	TBD	T. Bjerstedt
E. <u>Nuclear Waste Technical Review Board (NWTRB) Interactions</u>			
Tuesday- Friday, April 20-23	NWTRB Full Board Meeting (P)	Reno, NV	J. Cooper

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
E. <u>NWTRB Interactions (Continued)</u>			
May TBD	NWTRB Environment and Public Health Panel (P)	Las Vegas, NV	J. Cooper
Tuesday-Saturday, June 1-12	NWTRB International Trip	TBD	J. Cooper
Monday-Thursday, July 12-15	NWTRB Full Board Meeting (P)	Denver, CO	J. Cooper
Tuesday-Friday, October 19-22	NWTRB Full Board Meeting (P)	Las Vegas, NV	J. Cooper
F. <u>Advisory Committee on Nuclear Waste (ACNW) Interactions</u>			
Wednesday-Thursday, March 24-25	ACNW 52nd Meeting (P)	Bethesda, MD	A. Gil
Wednesday-Thursday, April 28-29	ACNW 53rd Meeting (P)	Bethesda, MD	A. Gil
Wednesday-Thursday, May 19-20	ACNW 54th Meeting (P)	Bethesda, MD	A. Gil
Wednesday-Thursday, June 23-24	ACNW 55th Meeting (P)	TBD	A. Gil
Wednesday-Thursday, July 21-22	ACNW 56th Meeting (P)	TBD	A. Gil
Wednesday-Thursday, August 25-26	ACNW 57th Meeting (P)	TBD	A. Gil
Wednesday-Thursday, September 22-23	ACNW 58th Meeting (P)	TBD	A. Gil
Wednesday-Thursday, October 27-28	ACNW 59th Meeting (P)	TBD	A. Gil

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
F. <u>ACNW Interactions</u> (Continued)			
Monday- Tuesday, November 22-23	ACNW 60th Meeting (P)	TBD	A. Gil
Wednesday- Thursday, December 15-16	ACNW 61st Meeting (P)	TBD	A. Gil
<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
G. <u>State and Public Interactions</u>			
Monday- Saturday, March 1-13	Jason Telepresence Project, Cheyenne High School	Las Vegas, NV	E. Harle
Saturday, March 6	Cadet Girl Scouts Geology Workshop	Las Vegas, NV	E. Harle
Tuesday, March 9	Howard Wadsen School	Las Vegas, NV	A. Gil
Tuesday, March 9	Telephone Pioneers of America	Las Vegas, NV	G. Fasano
Thursday, March 11	Beatty Chamber of Commerce	Beatty, NV	A. Robison
Thursday, March 11	American Nuclear Society (ANS)	Denver, CO	C. Gertz
Thursday, March 11	Meadows School	Las Vegas, NV	T. Kaish
Thursday, March 11	Lions Club (Tentative)	Las Vegas, NV	D. Bradford
Saturday, March 13	Spring Mountain Docent	Las Vegas, NV	D. Merritt
Saturday, March 13	Cadet Girl Scouts Field Trip	Las Vegas, NV	E. Harle
Monday, March 15	Thurman White Middle School	Henderson, NV	T. Pysto
Tuesday, March 16	Sandy Valley Elementary	Sandy Valley, NV	J. Blink E. Harle

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
G. <u>State and Public Interactions</u> (Continued)			
Tuesday, March 16	National Congress of American Indians	Las Vegas, NV	C. Gertz
Wednesday, March 17	Nevada Environmental Health Association	Las Vegas, NV	T. Pysto D. Sorensen
Wednesday, March 17	Churchill County Commission	Fallon, NV	A. Robison
Wednesday, March 17	Fallon Optimist	Fallon, NV	A. Robison
Thursday, March 18	Orr Junior High School	Las Vegas, NV	J. Cooper
Thursday, March 18	Gabbs Junior High School	Las Vegas, NV	T. Kaish
Thursday, March 18	Kenny C. Guinn Junior High School	Las Vegas, NV	A. Gil
Saturday, March 20	Frontier Girl Scouts Council	Las Vegas, NV	R. Arnold
Tuesday, March 23	Dave Rossin, President, ANS	Las Vegas, NV	C. Gertz
Tuesday, March 23	Texas Tech	Lubbock, TX	K. Beall
Tuesday, March 23	Henderson Community College	Henderson, NV	G. Fasano
Wednesday, March 24	Brownie Troop 562/ Junior Troop 362	Las Vegas, NV	R. Arnold
Wednesday, March 24	Thurman White Middle School	Las Vegas, NV	T. Kaish
Friday, March 26	Reserve Officers Association	Las Vegas, NV	G. Fasano
Wednesday, March 31	Henderson Community College	Henderson, NV	G. Fasano
Friday, April 2	Joe Mackey Sixth Grade Center	Las Vegas, NV	A. Gil

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
G. <u>State and Public Interactions</u> (Continued)			
Tuesday, April 6	Orr Junior High School	Las Vegas, NV	W. Wilson
Saturday, April 10	Girl Scouts Geology Workshop	Las Vegas, NV	E. Harle
Monday, April 12	Cactus Water & Energy Conservation Society	Las Vegas, NV	P. Standish
Tuesday, April 13	Sandy Valley Elementary	Sandy Valley, NV	A. Gil
Thursday, April 15	Teamsters Local 14	Las Vegas, NV	K. Beall
Thursday, April 15	ANS/American Society of Mechanical Engineers	New York, NY	C. Gertz
Thursday, April 15	Fay Herron Elementary	North Las Vegas, NV	J. Hartley
Monday, April 19	Orr Junior High School	Las Vegas, NV	A. Gil
Thursday, April 22	DOE 20th Annual Science Now	Las Vegas, NV	A. Robison
Saturday, April 24	Boy Scouts Atomic Energy Merit Badge Workshop	Las Vegas, NV	E. Harle
Tuesday, May 4	Underground Structures, Colorado School of Mines	Golden, CO	C. Gertz
Saturday, May 8	Girl Scouts	Las Vegas, NV	E. Harle
Saturday, May 8	Boy Scouts Atomic Energy Merit Badge Workshop	Las Vegas, NV	E. Harle
Wednesday, May 19	International Right of Way Association	Las Vegas, NV	G. Fasano

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
G. <u>State and Public Interactions</u> (Continued)			
Monday, June 14	Rapid Excavation & Tunneling Conference	Boston, MA	C. Gertz
Wednesday, June 16	Palo Verde Generating Station	Phoenix, AZ	G. Fasano E. Harle
Sunday, June 20	Vanishing Desert Greater Opportunity Group	Las Vegas, NV	A. Gil
Tuesday- Friday, August 17-20	Second International Mixed Waste Symposium	Baltimore, MD	C. Gertz
Monday- Wednesday, September 27-29	Industrial & Engineering Chemistry Division Symposium	Atlanta, GA	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>
H. <u>Exhibits Scheduled</u>		
Saturday, March 27	Public Open House (P)	Las Vegas, NV
Saturday, April 24	Public Open House (P)	Las Vegas, NV
Wednesday, May 19	Public Open House (P)	Las Vegas, NV
Wednesday- Friday, May 19-21	Geological Society of America 1993 Combined Cordilleran & Rocky Mountain Section Meeting	Reno, NV
Monday, March 8	University of Colorado	TBD
Tuesday, March 9	Lake Barrett, Acting Director, OCRWM	C. Gertz
Wednesday, March 10	Yerington High School	TBD

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<u>Date</u>	<u>Event</u>	<u>Location</u>
H. <u>Exhibits Scheduled</u> (Continued)		
Thursday, March 11	Meadows School	TBD
Tuesday, March 16	National Congress of American Indians	G. Fasano
<u>Date</u>	<u>Event</u>	<u>Escorts</u>
I. <u>Tours Scheduled</u>		
Thursday, March 18	Gabs School	TBD
Friday, March 19	University of Nevada, Las Vegas Engineering Students	J. White
Tuesday, March 23	Dave Rossin, President, ANS, and Guy Arlotto, NRC	TBD
Wednesday, March 24	Thurman White Middle School	TBD
Wednesday, March 24	Norman Rasmussen, Massachussetts Institute of Technology	TBD
Thursday, March 25	LLNL	J. Blink
Saturday, March 27	Public Open House (P)	Various Escorts
Monday, March 29	Eureka County	TBD
Thursday, April 1	Orr Junior High School	TBD
Friday, April 2	French Rad Waste Regulatory Agency	TBD
Tuesday, April 6	Desert Newcomers	TBD

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<u>Date</u>	<u>Event</u>	<u>Escorts</u>
I. <u>Tours Scheduled</u> (Continued)		
Tuesday, April 13	Kenny Guinn Junior High School	TBD
Friday, April 16	Our Lady of Las Vegas	TBD
Tuesday, April 20	Round Mountain High School	TBD
Friday, April 23	OCRWM Field Test Teachers	TBD
Saturday, April 24	Public Open House (P)	Various Escorts
Monday, April 26	High-Level Waste (HLW) Conference	TBD
Monday, April 26	Hydrology Field Trip	A. Flint
Wednesday, April 28	HLW Conference Spouses	TBD
Wednesday, May 5	USGS Headquarters	B. Craig
Thursday, May 6	Pahrump Junior High	TBD
Wednesday, May 19	Public Open House (P)	Various Escorts
Monday, June 21	Girl Scouts Wider Opportunity Program	TBD
Tuesday, August 17	Senior Tripsters	TBD


 Carl P. Gertz
 Project Manager


REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
(REECo)

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT (YMP)

FEBRUARY 1993 - STATUS REPORT

Reeco has no reportable Level 0 or Level 1 Milestones.

SITE (1.2.3)

WBS 1.2.3.2

Task: USGS Integrated Data Acquisition System (IDAS)

Continued support of IDAS to include technical support, equipment testing, maintenance and repairs.

WBS 1.2.3.5

Task: Capital Equipment to support Drilling Programs

Procurement is in progress for the following drilling support equipment: Cuttings/handling system, bag house, and data recorder and monitors. The Class XIII drill was accepted and should be put into service during March 1993 on the NRG-5 North Portal Ramp Borehole.

Task: UZ-16 Drilling and Testing (Job Package 92-3)

Depth of the 4.380-inch core hole was 1620.22 feet at period end. Reached the water table at approximately 1614 feet. The 12 1/4-inch reamed hole depth was 1598.94 feet at period end. Anticipated total depth of this hole is approximately 1689 feet.

Task: NRG-6 Drilling and Testing (Job Package 92-11)

The 6 5/8-inch casing landed at 317 feet from the surface. The 5 1/2-inch core hole depth was 1047.96 feet. Anticipated total depth to be cored is approximately 1100 feet. Double shift terminated on February 26, 1993; single shift to begin March 1, 1993.

Task: NRG-2 North Portal Ramp Borehole (Job Package 92-19)

Completed drilling/coring; awaiting geophysical logging program.

Task: Borehole Security Program

Borehole Security Program Nos. 1, 2, 3, 5, and 6 are complete. Program No. 4 has not been issued.

REGULATORY (1.2.5)

WBS 1.2.5.2.4

Task: Site Characterization Plan (SCP) Reference Library and Database

Continued distribution and database maintenance for the SCP and Progress Reports. Distributed four SCP sets and thirty copies of Progress Report #6 during this reporting period. Two hundred twenty

copies of Progress Report #7 were provided to the Technical Information Section for distribution at professional conferences.

EXPLORATORY STUDIES (1.2.6)

WBS 1.2.6.1

Task: Exploratory Studies Facility (ESF)

Continued administrative support for ESF activities to include; planning, scheduling and management. Prepared one Technical Control Procedure and three Construction Inspection Plans during this period.

Request for Proposal (RFP) for the Tunnel Boring Machine closed February 9, 1993 and the Technical Evaluation Team commenced proposal evaluation.

Received DOE approval of the Source Selection on the RFP for Technical Support and Underground Excavation for the ESF on February 23, 1993. Preaward audit requested through REEC Co internal audit on February 24, 1993.

Awarded purchase order for resin and grouted rockbolts on February 1, 1993. The RFP for Tunnel Arch Structure was approved by the Procurement Review Team on February 26, 1993.

Task: ESF North Portal Pad & Facilities (Job Package 92-20)

Continued cut and fill at the North Portal Pad area; continued excavation of north and south drainage channels; completed tortoise fencing and separation fencing at Borrow Pit No. 1; began discing vegetation at Borrow Pit No. 1; began and completed construction of haul road from Borrow Pit No. 1 to the North ESF Pad; supported mapper and photographers for first cut; completed rockbolt and wire cut at north ESF boxcut; began hauling common fill from Borrow Pit No. 1 to the North ESF Pad; continued removal and storage of topsoil at Borrow Pit No. 1; completed installation of split set rockbolts at second phase of north ESF boxcut (125 bolts to date); washed high walls and wing walls for second mapping exercise; pinned wire mesh to split set rockbolts with insert bolts; and drilled and installed 10-foot split sets above portal area for personnel safety.

TEST FACILITIES (1.2.7)

Task: Field Operations Support

Continued logistical and tour support for DOE Yucca Mountain Site (YMSO) staff. Eleven tours were held during this period with 561 people attending. Support included but was not limited to arrangements for buses, registration of guests, coordination of lunches/beverages, medical service, furniture, and mechanical service. Continued preparations for upcoming tours.

Continued support services to participants, and maintenance of YMP utilized facilities, utilities, equipment and roads in Area 25. The vendor returned to perform repairs to the membrane roof of Building 4015 in Area 25.

PROJECT MANAGEMENT (1.2.9)

WBS 1.2.9

Task: Technical Project Office Management/Project Control

Continued normal administrative level of effort support. Continued status and update of Planning and Control System (PACS); supported ESF Construction activities, drilling activities and completed cost estimates as required.

QUALITY ASSURANCE (1.2.11)

WBS 1.2.11

Task: Quality Assurance

Continued normal administrative level of effort support. DOE/YMP QA completed Audit No. YMP-93-06 of the REECO/YMP QA Program. The audit evaluated the following criteria: Organization; QA Program, Instructions, Procedures and Drawings; Document Control; Control of Measuring & Test Equipment (MT&E); Handling, Storage & Shipping; Corrective Action; QA Records; and Audits. All areas were satisfactory with the exception of M&TE, which had one finding identified on a DOE Corrective Action Request.

ENVIRONMENT, SAFETY & HEALTH (1.2.13)

WBS 1.2.13

Task: Safety & Occupational Health

Provided medical, occupational safety, industrial hygiene, and fire protection support. Continued participation in the update of the Five-Year Safety and Health Plan.

Per Project Office direction, initiated development of underground safety and health training program. This training will be provided to any persons accessing the underground facility, including experienced and inexperienced workers, and visitors. Program development will be completed in early March, 1993.

Held a postaward conference for Environmental Technologies (ET) to review subcontract requirements and policies prior to their start of work on February 22, 1993. The Subcontract is for the removal of approximately 1,224 tons of oil stain from Area 25 and transportation to their facility in Las Vegas for remediation. As of February 26, 1993, the Subcontractor had removed approximately 1,100 tons of soil for remediation. The Subcontract will require modification to remove an additional amount of approximately 1,200 tons.

SUPPORT SERVICES (1.2.15)

WBS 1.2.15

Task: Administrative Support and Training

Continued to provide procurement, logistical, and information management administrative level of effort support; continued support services to various YMP participants.