



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: DECEMBER 3, 1992  
SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE  
WEEK ENDING NOVEMBER 13 AND NOVEMBER 20, 1992, and YUCCA  
MOUNTAIN SITE OFFICE (YMSO) FIELD ACTIVITY REPORT FOR WEEK  
ENDING NOVEMBER 13 AND NOVEMBER 20, 1992

Please find enclosed the above-referenced reports

There is nothing requiring specific management attention in the reports.

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

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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

NOV 27 1992

John W. Bartlett, Director, Civilian Radioactive Waste Management,  
HQ (RW-1) FORS

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
NOVEMBER 20, 1992

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

A. Site Characterization Planning

Field Operations

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

On Job Package (JP) 92-3, drilling activities continue with the LM-300 drill rig on Borehole UZ-16. As of November 17, 1992, Reynolds Electrical & Engineering Co., Inc. (REECo,) had cored to a depth of 1039.33 feet and reamed to 1019.06 feet.

On JP 91-9, Neutron Access Boreholes, Phase II, drilling activities continue with the CME-850 drill rig on USW UZN-58. REECo has cored and reamed to a depth of 100.08 feet. Drilling was suspended for one day while the crew mobilized for drilling at NRG-1 (JP 92-2), a borehole ramp located by Exile Hill. REECo cleaned out the fill on the borehole from 86 feet to 150 feet.

Regarding construction activities at NRG-6, Drill Pad and Access Road, the Site Manager and Field Testing Coordinator (FTC) met at the site with representatives from Raytheon Services Nevada (RSN) Quality Control and REECo construction on November 18, 1992. The pad and road were approved and accepted by the FTC and Site Manager. As a result, the Site Manager notified REECo to begin mobilizing the Joy drill rig for drilling activities at this site.

On JP 92-5, Soil Test Pits and Trenches, REECo provided support to the Principal Investigator, cleaning walls and the bottom of Trench MWV-T7.

On JP 92-7, Fran Ridge Test Pit Mapping, REECo provided support for pit wall photography.

### Sample Management Facility

Processing of core and recovery of core and cuttings from UE25 UZ-16 continued. The use of a drill hole sampling plan spread sheet at UE25 UZ-16 was initiated. The staff visited a potential quarry site at Busted Butte with representatives of Lawrence Livermore National Laboratory (LLNL). Processing of specimens from V-1 and V-2 was completed. The prognosis on UE25 NRG-6 was completed.

### Site Investigations

Borehole NRG-1 was cleaned out in preparation for geophysical logging. A demonstration test of a new, state-of-the-art, computerized video logging device was completed in the hole; this device can produce a graphic display of the borehole that simulates core.

A Yucca Mountain Site Characterization Project Office (YMPO) Technical Review Committee was established to review the revised Exploratory Studies Facility (ESF) Study Plans (SP).

### Regulatory Interactions

#### Issue Resolution

The Steering Group met on November 17, 1992, in Albuquerque, New Mexico. High priority issues and budget information were discussed at the meeting. The U.S. Nuclear Regulatory Commission's (NRC) site characterization analysis open items and their relationship to current issues were also discussed.

The Erosion Topical Report will be submitted to the U.S. Department of Energy (DOE) for formal review by December 1, 1992. It is expected that the Calcite-Silica Technical Report will be completed by the end of the year.

### Site Characterization Progress Report (PR)

PR 6 is still in the Secretary of Energy's office for approval. The review draft of PR 7 was distributed on November 16, 1992, and comments are due to YMPO on December 7, 1992.

### Advisory Committee on Nuclear Waste (ACNW) Interactions

The Working Group meeting on climate change was held in Bethesda, Maryland, on November 18, 1992. DOE's methodology for determining the effects of long-range climate change on a proposed repository at Yucca Mountain, Nevada, were presented to the ACNW.

ESF Task Force Activities

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

Release Tunnel Boring Machine (TBM)	
Request for Proposal	December 1, 1992
Receive TBM Vendor Proposals	January 1993
Award TBM Contract	TBD
Receive Energy System Acquisition Advisory	
Board Approval to Start Work	November 25, 1992
Start ESF Site Preparation	November 30, 1992
Start Excavating TBM Launch Chamber	April 2, 1993

Site Characterization Plan (SCP) SP Status

One SP was submitted to YMPO this week: SP 8.3.1.4.2.2, Revision 2, "Characterization of Structural Features Within the Site Area." This was an ESF revision.

## STUDY PLAN BREAKDOWN

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In Screening Review .....	1
In YMPO and DOE/Headquarters (HQ) Review .....	6
Awaiting Comment Resolution .....	10
Awaiting Author Revision .....	4
In YMPO/HQ Verification Audit .....	4
Preparing to Submit or Awaiting YMPO Approval .....	5
Awaiting Submission to NRC .....	3
NRC Phase 1 Review .....	15
NRC Acceptance .....	28
Total .....	76

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## SCP/SP Status:

Total SPs Assigned to Cover 106 Studies .....	103
SPs Not Yet Submitted for Review .....	35
SPs Submitted for Initial Review .....	68
Revised SPs Submitted for Review .....	5
Revised ESF SPs Submitted for Review .....	3
Total SPs Submitted for Review .....	76

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## State of Nevada Comments Status:

Received Comments from the State of Nevada .....	10
Responses Transmitted to the State of Nevada .....	10

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NRC Comments Status:

Received Comments from NRC ..... 17  
Responses Transmitted from OGD to DOE/HQ ..... 16

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Critical ESF SP Status:

SP 8.3.1.2.2.4, "Characterization of the Yucca Mountain Unsaturated Zone Percolation ESF Study," will be submitted to YMPO by December 1, 1992.

As indicated above, SP 8.3.1.4.2.2, Revision 2, was submitted to YMPO. It is currently undergoing the YMPO screening review.

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B. Project Planning and Control

No significant items to report.

C. Quality Assurance (QA) Implementation

Determination of Importance and Grading Enhancement

Quality (Q) List and Q-List Procedure Development

The Assessment Team (AT) continues to work with Sandia National Laboratories (SNL) to resolve the comments the AT provided on the Items Important to Waste Isolation report.

The SNL Items Important to Safety report was received on November 12, 1992, and is currently in AT review.

Implementation

The AT is working with SNL to resolve concerns with two SAND reports referenced as basis information in the RSN classification reports. Final comments on the two RSN classification reports were provided on November 18, 1992.

The AT is reviewing the draft RSN classification report on the TBM and comments are being consolidated.

D. Public Outreach and Institutional Activities

The Yucca Mountain Lecture Series, "The Ins and Outs of Underground Tunneling and Mining: Boring Makes the Difference," was presented by Robert Saunders, Civilian Radioactive Waste Management System

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Management and Operating Contractor (CRWMS M&O), on November 17, 1992, in Beatty, Nevada, and on November 19, 1992, at the Las Vegas Yucca Mountain Information Office (YMIO). Approximately 60 people attended the two lectures.

On November 16, 1992, James Blink, LLNL, gave an educational presentation on nuclear energy to five ninth grade biology classes at the Kenny Guinn Junior High School in Las Vegas, Nevada, with approximately 150 students in attendance; David Merritt, Technical and Management Support Services (T&MSS), gave an educational presentation on geology to approximately 24 students in the fifth grade class at the Beatty Elementary School; and Thomas Bjerstedt, YMPO, and Steve Frishman, from the State of Nevada, provided an educational presentation for ninth through twelfth grades of the Environmental Education Club at Yerington High School in Yerington, Nevada.

April Gil, YMPO, and Effie Harle, T&MSS, presented a workshop at the Nevada Math and Science Conference on November 14, 1992. The conference was held at the Reno Billingshurst Middle School in Reno, Nevada, and was attended by teachers from the area. April Gil gave an overview of the project, and Effie Harle presented various hands-on student activities and discussed YMP's educational programs.

A. C. Robison, YMPO, and Beatrice Reilly, T&MSS, presented papers at the American Nuclear Society (ANS) Winter Meeting on November 16, 1992, in Chicago, Illinois. Carl Gertz, Project Manager, gave a presentation at the ANS meeting on November 18, 1992.

The Institutional and External Affairs (IEA) staff attended the U.S. Council on Energy Awareness meeting in Chicago, November 16-18, 1992,

Terry Tait, T&MSS, gave a general overview presentation to approximately 30 members of the American Business Women's Association on November 16, 1992, in Las Vegas. Jeanne Cooper, YMPO, gave a general overview presentation to the American Association of University Women on November 18, 1992, in Las Vegas. Approximately 55 women attended the presentation.

Richard Arnold, a consultant, provided an educational presentation on Native Americans to the Lake Mead National Park Service on November 17, 1992, in Henderson, Nevada. Approximately 40 people attended. Approximately 50 people attended Richard Arnold's general presentation to the Archaeo Nevada group on November 19, 1992, in Las Vegas.

The Twenty-first Public Open House tour of Yucca Mountain was conducted on November 18, 1992, for approximately 280 people. Tour participants visited the Las Vegas YMIO, the FOC, two laboratories, the LM-300 drill rig, and Yucca Mountain.

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YMP representatives staffed an exhibit at the Nevada Association of Counties Conference in Minden, Nevada, November 18-20, 1992. This exhibit was set up in association with rural Nevada outreach programs. Over 65 people stopped by the booth to receive literature and visit with YMP representatives. Many county officials from the affected counties in Nevada were present at the conference.

Carl Gertz gave a general overview and participated in a panel debate for the Clark County Bar Association on November 19, 1992, in Las Vegas. Approximately 150 people attended.

William Andrews, a consultant, gave an educational presentation to three sixth grade science classes at the Garrett Middle School on November 19, 1992, in Boulder City, Nevada.

Richard Arnold gave an educational presentation on Native American Indian culture to four third grade classes at the C. P. Squires Elementary School in Las Vegas on November 19, 1992. Approximately 110 students attended the presentation. Richard Arnold also gave an educational presentation on November 20, 1992, to 90 kindergarten children at the Madison Sixth Grade Center in Las Vegas.

A tour to Yucca Mountain was conducted on November 19, 1992, for 90 guests from Pahrump Middle School. Another tour was conducted on November 20, 1992, for 10 guests from the National Association of Regulatory Utility Commissioners (NARUC). A. C. Robison provided a pretour briefing to the NARUC commissioner and conducted the tour with Bruce Crowe, Los Alamos National Laboratory (Los Alamos), and Wendy Dixon, YMPO.

Carl Gertz gave a State of the Project presentation, including fiscal year (FY) 1992 past accomplishments and FY 1993 goals, to the Las Vegas participants on November 20, 1992, in Las Vegas. Approximately 600 people were in attendance. YMP exhibit displays on new work, volcanism, earthquakes, ESF, Carbon-14, and the panels depicting general information about site characterization were set up and staffed at the meeting. Approximately 260 members of the public were able to participate in the public forum and have individual discussions with scientists.

## II. ANALYSIS & VERIFICATION DIVISION

The staff attended the American Society for Testing and Materials International Symposium on Microbiologically Influenced Corrosion Testing November 16-17, 1992, in Miami, Florida.

The staff participated in the Technical Review Group meeting November 18-20, 1992, in Orlando, Florida. The focus of the meeting was the Defense Waste Processing Facility Waste Qualification Report (Volumes 5, 2, and 9) and West Valley Waste Compliance Plan. They also

participated in the DOE Workshop on Expert Judgment, November 18-20, 1992, in Albuquerque. The management perspective on use of expert judgment in the Office of Civilian Radioactive Waste Management (OCRWM) program was presented at the workshop.

The staff attended the ACNW Working Group meeting on climate change on November 18, 1992, in Bethesda. The staff attended the ACNW 48th Meeting November 19-20, 1992, in Bethesda. Topics of interest to OCRWM included: ACNW's response to Chairman Selin's request on a system analysis approach for reviewing the high-level waste (HLW) program, consideration of potential impacts of different waste forms on repository performance, and use of the collective dose concept in HLW repository licensing.

Comments on the draft revision to the DOE/NRC Procedural Agreements for a Geologic Repository were provided to RW-30 on November 20, 1992.

### III. GENERAL INFORMATION ITEMS

#### LLNL

The preliminary results of initial EQ3/6 runs to consider precipitation and dissolution effects on pore and fracture properties are being used to evaluate the effects of mineral recrystallization on pore properties in regions dominated by slow fluid movement.

Hydrothermal calculations have been extended to include heat and fluid flow in the saturated zone (SZ) rather than treating the water table as an isothermal boundary. For a wide range of areal power densities, SZ conduction dominates convection, causing heating and fluid flow (convection cells) in the SZ. The convection cells are large and extend radially more than 10 kilometers from the repository. They form in approximately 1000 years, last for many tens of thousands of years, and have flow rates that are much larger than the ambient flow of the SZ.

#### Los Alamos

Chlorine-36 results were received for 15 samples including ream-bit cuttings from USW UZN-37, soils from five Midway Valley trenches, and ground water from USW-H1. All results were at or slightly below meteoric background values, as expected.

The Los Alamos staff provided program orientation and QA training to contractor staff at Lawrence Berkeley Laboratory and Stanford University. The management staff presented an overview of Los Alamos/YMP work to Los Alamos' Earth and Environmental Science Division's External Advisory Committee.

CRWMS M&O

The staff coordinated and participated in the DOE Workshop on Expert Judgment.

RSN

The final approved partial ESF Package 1A was delivered to the Change Control Board.

T&MSS

The IEA staff supervised the creation and distribution of a newspaper advertisement publicizing this week's mining and tunnel boring speaker series. They also supervised production of a five-minute videotape summary of recent site characterization activities.

The IEA staff responded to a DOE/OCRWM request for detailed information about IEA's recycled paper program, including how to calculate the environmental impact minimized by such usage and arrangements with vendors for storing paper.

U.S. Geological Survey (USGS)

New data-logger programs are being tested at selected wells where earthquake-induced water-level fluctuations are being monitored. The programs look for earthquake effects every five seconds and, if any are found, digitally record water levels at one-half second intervals. This digital data supplements the continuous analog data already being collected.

The staff attended a demonstration by RAAX, a Japanese corporation, of their video-based Borehole Imaging Processing System to a depth of about 190 feet in the UZ-16 borehole. The enhanced computer processing allows for determination of dip angle and aperture width of fractures and bedding features in dry or fluid-filled holes. The software provides an oriented 360 degree projected color image of a borehole.

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 Linda Artis at (702) 794-7896 or Theresa Hirsch at (702) 794-7759 for additional information. Exhibits are coordinated by Kevin Rohrer at (702) 794-7769, Public Update Meetings are coordinated by Joanna Magruder at (702) 794-7056, and tours are coordinated by Carleen Hill at (702) 794-7375.

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>A. <u>DOE/HQ Meetings</u></b>			
No significant meetings this week.			
<b>B. <u>CRWMS M&amp;O/DOE Meetings</u></b>			
Thursday, December 3	CRWMS M&O Program Management Review	Vienna, VA	C. Gertz
<b>C. <u>Internal and DOE/NV Meetings</u></b>			
Monday, December 7	State of the Project	Denver, CO	C. Gertz
Friday, December 11	Technical Project Officers Meeting	Las Vegas, NV	C. Gertz
Friday, December 11	Planning and Budget Meeting	Las Vegas, NV	C. Gertz
<b>D. <u>NRC Interactions</u></b>			
Tuesday, November 24	Interaction Planning Meeting (P)	Video Conference	T. Bjerstedt
Monday- Tuesday, December 14-15	Technical Exchange - Total System Performance Assessment (P)	Rockville, MD	T. Bjerstedt
TBD 1993	Technical Exchange - Volcanism (P)	Albuquerque, NM	T. Bjerstedt
<b>E. <u>Nuclear Waste Technical Review Board (NWTBR) Interactions</u></b>			
Tuesday- Wednesday, January 5-6, 1993	NWTBR Full Board Meeting (P)	Arlington, VA	J. Cooper
February or March 1993 TBD	NWTBR HG&G Panel Meeting (P)	TBD	J. Cooper
Tuesday- Friday, April 20-23, 1993	NWTBR Full Board Meeting (P)	Reno, NV	J. Cooper
Tuesday, June 1, 1993	NWTBR International Trip	TBD	J. Cooper

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>E. <u>NWTRB Interactions</u> (Continued)</b>			
Monday- Thursday, July 12-15, 1993	NWTRB Full Board Meeting (P)	Denver, CO	J. Cooper
Tuesday- Friday, October 19-22, 1993	NWTRB Full Board Meeting (P)	Las Vegas, NV	J. Cooper
<b>F. <u>ACNW Interactions</u></b>			
Wednesday, December 16	ACNW WG on PA - Phase 2 HLW Interactive PA by NRC (P)	Bethesda, MD	A. Gil
Thursday- Friday, December 17-18	ACNW 49th Meeting (P)	Bethesda, MD	A. Gil
Wednesday- Thursday, January 27-28, 1993	ACNW 50th Meeting (P)	Bethesda, MD	A. Gil
Wednesday- Thursday, February 24-25, 1993	ACNW 51st Meeting (P)	Bethesda, MD	A. Gil
<b>G. <u>State and Public Interactions</u></b>			
Monday, November 23	Palo Verde Nuclear Power Station	Las Vegas, NV	M. Voegele
Tuesday, November 24	Helen Herr Elementary School	Las Vegas, NV	R. Arnold
Tuesday, November 24	Robert E. Lake Elementary School	Las Vegas, NV	M. Pitterle
Wednesday, November 25	Japan Atomic Industrial Forum	Las Vegas, NV	M. Wadkins M. d'Ouille

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>G. <u>State and Public Interactions</u> (Continued)</b>			
Tuesday, December 1	YMP Business Opportunity Briefing	Las Vegas, NV	C. Gertz
Tuesday- Wednesday, December 1-2	Henderson Community College	Henderson, NV	M. Powell
Wednesday, December 3	Court Continuation School	Las Vegas, NV	R. Arnold
Monday, December 7	State of the Project, USGS	Denver, CO	C. Gertz
Thursday, December 10	Savannah Chapter of ANS	Aiken, SC	M. Blanchard
Monday, December 14	NRC Commissioner Curtis Pretour Briefing	Las Vegas, NV	C. Gertz
Tuesday, January 12 1993	Marion Earl Elementary School	Las Vegas, NV	A. Gil
Wednesday, January 13, 1993	ANS	Schenectady, NY	C. Gertz
Thursday, January 14, 1993	ANS	Parsippany, NJ	C. Gertz
Tuesday, February 23, 1993	University of Iowa	Ames, IA	C. Gertz
Tuesday, May 4, 1993	Underground Structures Colorado School of Mines	Golden, CO	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>
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**H. Exhibits Scheduled**

Monday- Friday, December 7-11	American Geophysical Union	San Francisco, CA
Saturday, December 12	Public Open House (P)	Las Vegas, NV

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
<b>I. <u>Tours Scheduled</u></b>		
Monday, November 23	Palo Verde Nuclear Power Station	TBD
Tuesday, November 24	LLNL	TBD
Monday, November 30	ESF Groundbreaking	TBD
Monday, November 30	Fluor Daniel	H. Dokuzoguz
Tuesday, December 1	Paradise Christian Academy	TBD
Wednesday, December 2	YMP Business Opportunity	TBD
Thursday, December 3	Pahrump Middle School	TBD
Thursday, December 3	TRB/State of Nevada Environmental	W. Dixon
Monday, December 7	UNLV Cooperative Agreement Group	M. Powell
Tuesday, December 8	Bonanza/Cheyenne Las Vegas Rotary Club	TBD
Saturday, December 12	Public Open House (P)	Various Escorts
Monday, December 14	NRC Commissioner Curtis	TBD
Saturday, January 16, 1993	Public Open House (P)	Various Escorts
Wednesday, January 20, 1993	Tonopah Middle School	TBD
Wednesday, February 3, 1993	Green Valley High School	TBD
Saturday, February 20, 1993	Public Open House (P)	Various Escorts

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<u>Date</u>	<u>Event</u>	<u>Escorts</u>
I. <u>Tours Scheduled</u> (Continued)		
Wednesday, February 24, 1993	Tonopah Middle School	TBD
Thursday, March 11, 1993	Meadows School	TBD
Thursday, March 18, 1993	Gabs School	TBD
Wednesday, March 24, 1993	Thurman White Middle School	TBD
Thursday, April 1, 1993	Orr Junior High School	TBD
Monday, April 19, 1993	Hydrology Field Trip	A. Flint
Tuesday, April 20, 1993	Round Mountain High School	TBD
Monday, April 26, 1993	HLW Conference	TBD
Monday, June 21, 1993	Girl Scouts Wider Opportunity Program	TBD

YMP:VFI-1132

*J. Maxwell Blansard*  
 Carl P. Gertz  
 Project Manager



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

NOV 23 1992

John W. Bartlett, Director, Civilian Radioactive Waste Management,  
HQ (RW-1) FORS

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
NOVEMBER 13, 1992

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 three major tours this reporting period.

Regarding Job Package (JP) 92-3, drilling activities continue with the LM-300 drill rig on Borehole UZ-16. Reynolds Electrical & Engineering Co., Inc. (REECO), has cored to a depth of 996 feet and reamed to 979.15 feet.

On JP 91-9, Neutron Access Boreholes, Phase II, drilling activities continue with the CME-850 drill rig on USW UZN-58. REECO has cored to a depth of 45.59 feet and reamed to 40.59 feet.

On JP 92-10, Drill Pad and Access Road for NRG-6, construction of the drill pad and the grade work were completed.

The Site Manager has finalized preparation for obtaining the necessary heavy equipment for Exploratory Studies Facility (ESF) site preparation activities.

Sample Management Facility

Processing of core and recovery of core and cuttings from UE25 UZ-16 continued. Recovery of core from USW UZN-58 continued. Fifteen core boxes were laid out for the U.S. Geological Survey (USGS), Sandia National Laboratories (SNL), and Los Alamos National Laboratory (Los Alamos). A Sample Overview Committee meeting was held on November 10, 1992.

Site Investigations

Excavation of Trench MWV-T7 was completed as a part of the fault investigations in Midway Valley.

Regulatory InteractionsIssue Resolution

The Yucca Mountain Site Characterization Project Office (YMPO) staff will attend the Issues Resolution Steering Group meeting in Albuquerque, New Mexico, on November 17, 1992. Agenda items for discussion include: the status of high priority issues, including Erosion and Calcite Silica; potential new issues for consideration; and the scope and purpose of topical reports.

Site Characterization Progress Report (PR)

PR 6 is still in the Secretary of Energy's office for approval. The estimated distribution date for PR 6 is now December 18, 1992. A preliminary draft of PR 7 has been prepared and will be distributed for review on November 13, 1992. Comments will be due to YMPO by December 7, 1992.

Advisory Committee on Nuclear Waste (ACNW) Interactions

Preparation of presentations for the ACNW Working Group meeting on climate change, which is scheduled for November 18, 1992, in Bethesda, Maryland, has been completed. The presentations include information on the U.S. Department of Energy's (DOE) proposed methodology for predicting climate change for the next 10,000 years.

ESF Task Force Activities

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

Release Tunnel Boring Machine (TBM)	
Request for Proposal	December 1, 1992
Receive TBM Vendor Proposals	January 1993
Award TBM Contract	TBD
Receive Energy System Acquisition Advisory Board (ESAAB) Approval to Start Work	November 25, 1992
Start ESF Site Preparation	November 30, 1992
Start Excavating TBM Launch Chamber	April 2, 1993

Site Characterization Plan (SCP) Study Plan (SP) Status

Three SPs were approved by YMPO this week: SP 8.3.1.5.2.1, Revision 2, "Characterization of the Quaternary Regional Hydrology;" SP 8.3.1.5.2.2, "Characterization of Future Regional Hydrology Due to Climate Changes;" and SP 8.3.1.9.2.1, "Natural Resource Assessment of Yucca Mountain, Nye County, Nevada." Starting with this week's report, information will be provided on the status of SP revisions that are critical to the initiation of ESF construction.

STUDY PLAN BREAKDOWN

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In Screening Review .....	0
In YMPO and DOE/Headquarters (HQ) Review .....	6
Awaiting Comment Resolution .....	11
Awaiting Author Revision .....	4
In YMPO/HQ Verification Audit .....	4
Preparing to Submit or Awaiting YMPO Approval .....	4
Awaiting Submission to the U.S. Nuclear Regulatory Commission (NRC) .....	3
NRC Phase 1 Review .....	15
NRC Acceptance .....	28
Total .....	75

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SCP/SP Status:

Total SPs Assigned to Cover 106 Studies .....	103
SPs Not Yet Submitted for Review .....	35
SPs Submitted for Initial Review .....	68
Revised SPs Submitted for Review .....	5
Revised ESF SPs Submitted for Review .....	2
Total SPs Submitted for Review .....	75

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State of Nevada Comments Status:

Received Comments from the State of Nevada .....	10
Responses Transmitted to the State of Nevada .....	10

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NRC Comments Status:

Received Comments from NRC .....	18
Responses Transmitted from OGD to DOE/HQ .....	11

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NOV 23 1992

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Critical ESF SP Status:

SP 8.3.1.4.2.2, "Characterization of Structural Features Within the Site Area," will be submitted to YMPO by November 16, 1992.

SP 8.3.1.2.2.4, "Characterization of the Yucca Mountain Unsaturated Zone Percolation ESF Study," will be submitted to YMPO by December 1, 1992.

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B. Project Planning and Control

No significant items to report.

C. Quality Assurance (QA) Implementation

Determination of Importance and Grading Enhancement

Quality (Q) List and Q-List Procedure Development

The Assessment Team (AT) continues to work with SNL to resolve the comments the AT provided on the Items Important to Waste Isolation report.

The Items Important to Safety report is expected to be received from SNL for the AT meeting on November 12, 1992.

Implementation

A revised AT Controlled List, which lists the basis information for the two Raytheon Services Nevada (RSN) classified reports is currently in QA Procedure 6.2 review. Review of additional documents for potential placement on the AT Controlled List continues.

D. Public Outreach and Institutional Activities

The YMP sponsored a Boy Scouts Atomic Energy Merit Badge Workshop at the Las Vegas Yucca Mountain Information Office on November 7, 1992. Twenty-one scouts and five leaders attended the seven-hour hands-on workshop, where they learned about: atoms, fission and fusion, radiation, and nuclear power from James Blink, Lawrence Livermore National Laboratory (LLNL); nuclear reactors and the fuel cycle from a slide presentation provided by Todd Kaish, Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O); and measurement of radiation, time, space, and shielding from Kevin Shenk, Technical and Management Support Services (T&MSS).

Approximately 200 teachers attended the Nevada Science Teachers Conference at Cheyenne High School in Las Vegas, Nevada, November 6-7, 1992. The YMP "New Work" tabletop exhibit was displayed at the conference along with the new YMP folders and fact sheets. John Hartley and Effie Harle, both from T&MSS, conducted a "Geology is Fun" workshop to inform the teachers about a day in the life of a miner. Michael Pitterle, T&MSS, gave an educational presentation on geology to approximately 150 people at the conference.

A tour to Yucca Mountain was conducted on November 7, 1992, for several Nevada senators and their guests. Carl Gertz, Project Manager, gave a pretour briefing to the group of approximately 12 people, and A. C. Robison, YMPO, was an escort. Tours were also conducted on November 9, 1992, for Tony Batt of the Donrey Media Group (Washington correspondent for the Las Vegas Review-Journal), and on November 13, 1992, for two guests from the Power Reactor and Nuclear Fuel Development Corporation. Carl Gertz gave a pretour briefing to Tony Batt.

The YMP Public Update Meetings were held on November 9, 1992, in Amargosa Valley; on November 10, 1992, in Las Vegas; and on November 12, 1992, in Reno, Nevada. The YMP exhibits were set up and staffed for these events.

On November 10, 1992, Dorothy Tepper, USGS, gave an educational presentation to approximately 100 students of the Department of Geological Sciences at Cornell University in Ithaca, New York; James Blink gave an educational presentation on radiation to three fifth grade classes at the Robert Taylor Elementary School in Henderson, Nevada.

On November 12, 1992, Linda Linden, T&MSS, gave an educational presentation on geology to four sixth grade classes at the Kermit R. Booker Sixth Grade Center in Las Vegas. Approximately 120 students attended the presentation. Also, John Hartley provided an educational presentation on geology to three first grade classes at the Harvey Dondero Elementary School in Las Vegas. Approximately 90 students attended his presentation.

On November 13, 1992, in Las Vegas, Tom Pysto, T&MSS, gave an educational presentation on Environmental Studies at Yucca Mountain to approximately 70 students at the Burkholder Junior High School; and Richard Arnold, a consultant, gave an educational presentation on Native American Indians to approximately 90 kindergarten and prekindergarten students at the Madison Sixth Grade Center. Richard Arnold also provided an educational presentation to the Girl Scouts of America in Las Vegas on November 14, 1992.

Institutional and External Affairs (IEA) and CRWMS M&O staff assisted in planning for the DOE Contractors' Briefing on November 13, 1992, in Reno, Nevada. Max Powell, YMPO, and A. C. Robison attended the briefing. The CRWMS M&O staff also met with State Superintendent of Instruction, Eugene Paslov, to discuss the math and science education reforms conference; and with Judy Schumacher, RSN, to plan involvement in the Business Roundtable statewide education initiatives.

The CRWMS M&O staff submitted a draft of the YMPO University Relations Plan to DOE.

## II. ANALYSIS & VERIFICATION DIVISION

The staff participated in the Geochemistry Integration Team teleconference on November 10, 1992.

The staff conducted a review of the Waste Package Implementation Plan, Revision 0, dated October 1992 (YMP/92-11). Comments were submitted on November 13, 1992.

## III. GENERAL INFORMATION ITEMS

### LLNL

A draft plan for a laboratory 3- x 3- x 3-meter heated block experiment was informally submitted to YMPO. The Fran Ridge test pits were identified as a potential source of 1-M3 blocks to be used to conduct the experiment.

### Los Alamos

Trench LW-1 at Cind-R-lite volcanic center (formerly called Lathrop Wells volcanic center) was deepened to allow for paleomagnetic sampling for cosmogenic helium age determinations.

The Environmental Safety and Health questionnaire and self assessment were provided to YMPO for RW/YMP work at Los Alamos.

### REECo

Analysis began of job specific safety training requirements for work activities proposed for JP 92-20, ESF North Portal Pad and Facilities. The preparation of a requisition technical package for the planned aggregate processing facility subcontract Request for Proposal was initiated.

SNL

Additional analyses for waste isolation impacts associated with ESF Design Package 1A have been completed. A proposed plan for testing activities in the starter tunnel for the ESF was submitted to Los Alamos.

T&MSS

The IEA staff organized the first Teacher Educational Steering Committee meeting, which will be held on November 18, 1992. Their first meeting will be a brainstorming, organizational meeting to establish goals and objectives. The purpose of the steering committee is to evaluate existing YMP educational programs and develop applicable new programs for kindergarten through twelfth grades.

USGS

The staff continued lithologic logging of recently-drilled and currently-active core holes. A preliminary log of UZ-16 to a depth of 810 feet has been completed, and detailed logging continued as core was acquired. Detailed field work began in upper Paintbrush Canyon on the stratigraphic relationships in the rhyolitic rocks of Calico Hills. This study works within the stratigraphic and structural framework for the area and focuses on facies analysis of the sedimentary units. Initial efforts have begun to interpret the lowest and thickest of four redeposited tuffaceous units that are interstratified with five lava flows and pumiceous breccias. Compilation of outcrop and structural section data for the Topopah Springs units continue.

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 Linda Artis at (702) 794-7896 or Theresa Hirsch at (702) 794-7759 for additional information. Exhibits are coordinated by Kevin Rohrer at (702) 794-7769, Public Update Meetings are coordinated by Joanna Magruder at (702) 794-7056, and tours are coordinated by Carleen Hill at (702) 794-7375.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
A. <u>DOE/HQ Meetings</u>			
Monday, November 16	ESAAB Presentation	Washington, DC	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>B. <u>CRWMS M&amp;O/DOE Meetings</u></b>			
Thursday, December 3	CRWMS M&O Program Management Review	Vienna, VA	C. Gertz
<b>C. <u>Internal and DOE/NV Meetings</u></b>			
Wednesday, November 18	NV Manager's Monthly Program Review	Las Vegas, NV	C. Gertz
Friday, November 20	State of the Project	Las Vegas, NV	C. Gertz
Monday, December 7	State of the Project	Denver, CO	C. Gertz
<b>D. <u>NRC Interactions</u></b>			
Tuesday, November 24	Interaction Planning Meeting (P)	Video Conference	T. Bjerstedt
Monday- Tuesday, December 14-15	Technical Exchange - Total System Performance Assessment (P)	Rockville, MD	T. Bjerstedt
TBD 1993	Technical Exchange - Volcanism (P)	Albuquerque, NM	T. Bjerstedt
<b>E. <u>Nuclear Waste Technical Review Board (NWTRB) Interactions</u></b>			
Wednesday- Friday, November 18-20	Workshop on Expert Judgment (P)	Albuquerque, NM	A. Simmons
Tuesday- Wednesday, January 5-6, 1993	NWTRB Full Board Meeting (P)	Arlington, VA	J. Cooper
February or March 1993 TBD	NWTRB HG&G Panel Meeting (P)	TBD	J. Cooper

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<u>E. NWTB Interactions (Continued)</u>			
Tuesday-Friday, April 20-23, 1993	NWTB Full Board Meeting (P)	Reno, NV	J. Cooper
Tuesday, June 1, 1993	NWTB International Trip	TBD	J. Cooper
Monday-Thursday, July 12-15, 1993	NWTB Full Board Meeting (P)	Denver, CO	J. Cooper
Tuesday-Friday, October 19-22, 1993	NWTB Full Board Meeting (P)	Las Vegas, NV	J. Cooper
<u>F. ACNW Interactions</u>			
Wednesday, November 18	ACNW WG Climate (P)	Bethesda, MD	A. Gil
Thursday-Friday, November 19-20	ACNW 48th Meeting (P)	Bethesda, MD	A. Gil
Wednesday, December 16	ACNW WG on PA - Phase 2 HLW Interactive PA by NRC (P)	Bethesda, MD	A. Gil
Thursday-Friday, December 17-18	ACNW 49th Meeting (P)	Bethesda, MD	A. Gil
Wednesday-Thursday, January 27-28, 1993	ACNW 50th Meeting (P)	Bethesda, MD	A. Gil
Wednesday-Thursday, February 24-25, 1993	ACNW 51st Meeting (P)	Bethesda, MD	A. Gil

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
G. <u>State and Public Interactions</u>			
Monday, November 16	Kenny Guinn Junior High School	Las Vegas, NV	J. Blink
Monday, November 16	Beatty Elementary School	Beatty, NV	D. Merritt
Monday, November 16	Yerington High School	Yerington, NV	E. Lundgaard
Monday, November 16	American Nuclear Society (ANS)	Chicago, IL	A. Robison
Tuesday, November 17	Yucca Mountain Lecture Series (P)	Beatty, NV	R. Saunders
Tuesday, November 17	Lake Mead National Park Service	Henderson, NV	R. Arnold
Wednesday, November 18	American Association of University Women	Las Vegas, NV	J. Cooper
Wednesday, November 18	ANS	Chicago, IL	C. Gertz
Thursday, November 19	Yucca Mountain Lecture Series (P)	Las Vegas, NV	R. Saunders
Thursday, November 19	Archael Nevada	Las Vegas, NV	R. Arnold
Thursday, November 19	Clark County Bar Association	Las Vegas, NV	C. Gertz
Thursday, November 19	C. P. Squires Elementary School	Las Vegas, NV	R. Arnold
Friday, November 20	State of the Project	Las Vegas, NV	C. Gertz
Friday, November 20	Madison 6th Grade Center	Las Vegas, NV	R. Arnold
Friday, November 20	National Association of Regulatory Utility Commissioners (NARUC)	Las Vegas, NV	TBD

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
G. <u>State and Public Interactions</u> (Continued)			
Monday, November 23	Palo Verde Nuclear Power Station	Las Vegas, NV	TBD
Tuesday, November 24	Helen Herr Elementary School	Las Vegas, NV	R. Arnold
Wednesday, November 25	Japan Atomic Industrial Forum	Las Vegas, NV	M. Wadkins M. d'Ouille
Tuesday, December 1	YMP Business Opportunity Briefing	Las Vegas, NV	C. Gertz
Tuesday- Wednesday, December 1-2	Henderson Community College	Henderson, NV	M. Powell
Wednesday, December 3	Court Continuation School	Las Vegas, NV	R. Arnold
Monday, December 7	State of the Project, USGS	Denver, CO	C. Gertz
Thursday, December 10	Savannah Chapter of ANS	Aiken, SC	TBD
Monday, December 14	NRC Commissioner Curtis Pretour Briefing	Las Vegas, NV	C. Gertz
Wednesday, January 13, 1993	ANS	Schenectady, NY	C. Gertz
Thursday, January 14, 1993	ANS	Parsippany, NJ	C. Gertz
Tuesday, February 23, 1993	University of Iowa	Ames, IA	C. Gertz
Tuesday, May 4, 1993	Underground Structures Colorado School of Mines	Golden, CO	C. Gertz

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<u>Date</u>	<u>Event</u>	<u>Location</u>
<b>H. <u>Exhibits Scheduled</u></b>		
Tuesday- Thursday, November 17-19	ANS Winter Meeting	Chicago, IL
Wednesday, November 18	Public Open House (P)	Las Vegas, NV
Thursday- Saturday, November 19-21	Nevada Association of Counties	Fallon, NV
Friday, November 20	State of the Project Meeting	Las Vegas, NV
Monday- Friday, December 7-11	American Geophysical Union	San Francisco, CA
Saturday, December 12	Public Open House (P)	Las Vegas, NV

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
<b>I. <u>Tours Scheduled</u></b>		
Wednesday, November 18	Public Open House (P)	Various Escorts
Thursday, November 19	Pahrump Middle School	TBD
Friday, November 20	NARUC	A. Robison
Monday, November 23	Palo Verde Nuclear Power Station	TBD
Monday, November 30	ESF Groundbreaking	TBD
Tuesday, December 1	Paradise Christian Academy	TBD
Wednesday, December 2	YMP Business Opportunity	TBD

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
I. <u>Tours Scheduled (Continued)</u>		
Thursday, December 3	Pahrump Middle School	TBD
Thursday, December 3	TRB/State of Nevada Environmental	W. Dixon
Monday, December 7	UNLV Cooperative Agreement Group	M. Powell
Tuesday, December 8	Bonanza/Cheyenne Las Vegas Rotary Club	TBD
Saturday, December 12	Public Open House (P)	Various Escorts
Monday, December 14	NRC Commissioner Curtis	TBD
Saturday, January 16, 1993	Public Open House (P)	Various Escorts
Wednesday, January 20, 1993	Tonopah Middle School	TBD
Saturday, February 20, 1993	Public Open House (P)	Various Escorts
Wednesday, February 24, 1993	Tonopah Middle School	TBD
Thursday, March 11, 1993	Meadows School	TBD
Thursday, March 18, 1993	Gabs School	TBD
Wednesday, March 24, 1993	Thurman White Middle School	TBD
Monday, April 19, 1993	Hydrology Field Trip	A. Flint
Tuesday, April 20, 1993	Round Mountain High School	TBD

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
I. <u>Tours Scheduled</u> (Continued)		
Monday, April 26, 1993	High-Level Waste Conference	TBD
Monday, June 21, 1993	Girl Scouts Wider Opportunity Program	TBD

*For*   
 Carl P. Gertz  
 Project Manager

YMP:VFI-1008



## Department of Energy

Yucca Mountain Site Characterization

Project Office

P. O. Box 98608

Las Vegas, NV 89193-8608

WBS 1.2.7.3

QA: N/A

**NOV 24 1992**

Carl P. Gertz, Project Manager, YMP, NV

### YUCCA MOUNTAIN SITE OFFICE (YMSO) FIELD ACTIVITY REPORT

The following are the significant field activities for the weeks ending November 13, 1992, and November 20, 1992:

#### 1. Field Operations Center, (YMSO)

##### A. Management and Administration

- a. The Site Manager and FOC staff participated in and provided operational and logistical support to several tours conducted during this period. These were: Tony Batt; Power Reactor and Nuclear Fuel Development Corps; Public Open House; Pahump Middle School and NARUC.
- b. Provided operations support for field site characterization activities.
- c. Supported 5 tours of YMP facilities by providing drivers and other staff, field radios, vehicles and administrative and logistical support.
- d. Issued vehicles, first aid kits, fire extinguishers, and other necessary equipment to personnel performing field duty.
- e. Continued providing operations and administrative support to the Yucca Mountain Site Manager and his DOE staff.
- f. Created and distributed "GIS Needs Assessment" forms to key participants. Created GIS Output Tracking System (database) to keep track of GIS output products produced.
- g. Continued installing cruise control in GSA vans.
- h. Worked out logistics for weekly photography of ESF construction progress, will videotape on a regular basis. With approval of Tom Fortner, Gene Ryder, and Carl Gertz, five sites were selected and staked. Prototype photos were taken. Vantage Points are Alice Hill, Midway Valley floor from 25' Photo Tower, two locations on Exile Hill, and Fran Ridge. Developing Special Instructions for precision photography.

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- i. Initiated training of Don Unglesbee of PC ORPS.
- j. Processed 12 work order requests and 2 technical field work order request.
- k. Transmitted 3 occurrence reports.
- l. Provided special assistance to institutional on ESF Video Tape.
- m. Set up photogrammetric mission for Crater Flat, Stagecoach Road and Fran Ridge, schedules 11/16 to 11/20.
- n. Completed revision of FOI 6401, "Work Order Requests" and submitted for approval.
- o. Completed "Ranch Control Handbook" for front desk.
- p. Photographs and video were taken of NRG-6 pad construction, MWF-T7 excavation and 500 meter trench.
- q. Coordination meeting with M&O on development of "Situation Room" in the FOC.
- r. Researched products at COMDEX Convention to support GIS System.
- s. Updated one ORPS report and finalized one other.
- t. Supported photos support coordination to place a camera stand in Midway Valley for use in monitoring construction progress.
- u. Made arrangements to allow REECo Construction to acquire two trailers formerly used by the Russian verification group.
- v. Commenced defining the first draft of hardware/software requirements for the VARS system.

**B. Bullfrog Planning Commission**

- a. Continuing with development of data base for Facilities Management Program.
- b. Met with Ivan Cottle's group to discuss schedule and methodology for development of future scheduling activities. There was no meeting due to lack of interest on the part of Las Vegas personnel.
- c. Continuing to gather information on vehicle usage and assignments for decision paper concerning YMP/YMSO vehicles.

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C. Project Safety and Health, (DOE/SAIC)

- a. Did budget work-up for Project Participant's Safety and Health Programs.
- b. Put a final wrap-up on CPAF objectives and other tasks accomplished. CPAF objectives for next quarter, beginning December 1, agreed to.
- c. Reviewed LANL S&H Plan for conformance to YMP S&H Plan.
- d. Made arrangements with NTS personnel to coordinate for FOC Fire Drill.
- e. Conducted 6 surveillances: LM-300=2, MWV-Pit 7=2; NRG-1=1; and Fran Ridge=1.
- f. Met with M&O S&H personnel to develop safety and health analysis for Exploratory Site Facility.
- g. Conducted air quality studies at Fran Ridge to ensure that activity was not a "confined spaces entry", they were not.
- h. Supported ongoing tours.
- i. Occurrences Reports - none awaiting F signature, 2 new reports submitted.
  - 1. REECo - 5 outstanding: 2 waiting PM signature; 2 rejected (by F, both on 06/02/92); and 1-10 day notification (10/20/92).
  - 2. SAIC - 5 outstanding: 1 rejected (by F, 07/27/92); 2-10 day notification (both dated 11/03/92); and 1-10 day update (11/11/92 and 11/12/92).
- j. Attended meeting with job package writers on the USGS seismic project.
- k. Attended monthly meeting of Safety and Health Advisory Committee.
- l. Attended regular T&MSS Field Test Support Group safety meeting.
- m. Sent comment resolution on Surface Based Testing Facility Requirement Document to the M&O.
- n. Published monthly surveillance report.
- o. Attended meeting with Silver State Staff on ambulance driver's training class.

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- p. Reviewed Job Packages 92-19.
- q. SHCD closed all CPAF items for this quarter, ending 11/30.
- r. Reviewed California Tunnel Orders to obtain cross references that we need to obtain.
- s. Completed fire inspection check-list for SMF Laboratory.
- t. Performed fire extinguisher inspections.
- u. IH discussed OSHA requirements for temporary space heaters with drilling superintendent. Discussed hazardous noise signs with rig superintendent, signs were placed at appropriate locations.
- v. Attempted to conduct air sampling at Midway Valley Trench 7, personnel were operating the air lance, this operation was stopped due to excessive visible emissions.
- w. Reviewed special conditions for "Aggregated Processing Facility for the YMP."

2. Sample Management Facility, (SMF/SAIC)

- a. Continued recovery and processing core and cutting from UZ-16.
- b. Completed drilling on UZN-58.
- c. Visited potential quarry site at Busted Butte with LLNL.
- d. Completed processing specimens from V-1 and V-2.
- e. Completed prognosis on NRG-6.
- f. Initiated use of drill hole sampling plan spread sheet at UZ-16.
- g. Laid out 15 core boxes for examination by LAND, Sandia and USGS.
- h. Supported SOC meeting, 11/10.

3. YMP Hydrologic Research Facility, (USGS)

- a. HRF staff conducted Neutron Logging in 76 boreholes.
- b. Saturated Zone staff took water level measurements in 2 wells and data collected from 6 additional wells.
- c. Denver staff at NTS to monitor tracer gas injection at UZ-16 and to observe core collection for Hydrochemical studies.

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- d. Tectonics Section staff conducted mapping of Busted Butte, Midway Valley, Crater Flats, Stagecoach and Trench 14 and began preparing trenches for photogrammetric mapping.
- e. SAIC, Golden staff finished current mapping in Ghost Dance Fault and Yucca Mountain Area's

4. Raytheon Services Nevada, (RSN)

1. Field Support

- a. Continued work on Area 25 control net, on-going.
- b. The Field Engineering Group checks the trench walls on a daily basis in order to determine suitability for continued operations.
- c. Survey of the geophysical lines is complete, Phase I complete. Phase II calculations remain.
- d. N-63, N-33 and N-34 Drill Holes survey complete. Calculations and plotting remain. N-31, N-32 and N-35 survey complete. Calculation and plotting remain.
- e. Resurvey to verify depth of MWV-7 excavation.
- f. Issued eleven (11) work initiations (WI's) in support of ongoing and upcoming job packages.
- g. Field Engineering providing support to JP 91-9/Rev 3., JP 92-5, JP 92-12, JP 92-7, JP 92-8 and JP 92-10, as required.
- h. Current status of JP 92-2, "Test Pits" submitted. JP 92-5, "Test Pits" is in progress. Calculations remain.
- i. Electrical as-built of FOC, Building 4015 is 82% complete. Work is ongoing.
- j. GSF Test Pits survey complete. Calculations and plotting remain.
- k. Busted Butte, Stagecoach, Crater Flats Survey complete. Calculations and plotting remain.
- l. Fran Ridge pit and pavement ready for survey except for Pit Mapping by USGS. Calculations complete.
- m. Verified vertical alignment, LM-300, UZ-16.
- n. USGS's mapping of Busted Butte, Stagecoach, and Crater Flats are completed. Calculations complete.

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- o. NRG-6 Pad complete and released to Drilling.

2. Quality Control

- a. Continued verification of activities on UZ-16 borehole utilizing LM-300 Drill Rig.
- b. Completed verification activities at UZN-58 utilizing the CME-850 Rig.
- c. Completed verification activities on NRG-6 Pad and Access Road construction.

5. Reynolds Electrical and Engineering Co., Inc., (REECO)

1. Drilling

- a. JP 92-3, UZ-16, LM-300, cored to 1,055.88 feet, reamed to 1,039.04 feet. Survey at 1.010 feet - 2 degrees. Survey at 1,039 feet - 2 degrees.
- b. JP 91-9, CME-850, UZN-58, cored and reamed to 118.77 feet, total depth.
- c. JP 92-2, NRG-1, CME-550, tripped in hole, cleaned fill from 86 feet to 150 feet. Barbour Logging Co. ran caliper gyro log from 0 to 148 feet.
- d. JP 92-11, NRG-6, Joy #1, crew rigging up drill rig.

2. Logistics

- a. Continued requisitioning supplies, materials, and services for YMP Field Operations Center.
- b. Supported tours during the week.
- c. Performed verification on condition of fences and trenches SCR-T1, T2, and T3, CF-1 and SCF-T1.
- d. Started verification activities on set up "Joy" Rig ant NRG-6.
- e. Completed verification activities on the excavation of Trench 7. Trench to be backfilled later.
- f. Completed verification activities on NRG-1, borehole cleanout and logging.

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- g. Verified rig down of equipment on N-58 and set up on N-59. Initiated verification activities on N-59 utilizing the CME-850.
- h. Backfilling of trenches in Midway Valley started (MWV TP#29, 30, 31, and 32) (NRSF TP#25, 28, and 29.)

6. Los Alamos National Laboratory, (LANL)

- a. No report submitted.

7. Document and Records Center, (CRWMS/M&O)

- a. Received and Issued to following controlled documents:

Job Packages N/A

Test Planning Packages N/A

Specifications N/A

Drawings N/A

FCRs: FCR 93/046, Rev. 0, "Modification of Rev. 1 of Geophysical Logging Program and Attachment of G.L.P. to Rev. 2 of Job Package."  
FCR 93/056, Rev. 0, "NRG-6 Pad Elevation, Grade & Fill."  
FCR 93/066, Rev. 0, "Addition of Funding to JP 92-05 for MWVC-T7 Trenching."  
FCR 93-065, Rev. 0, "NRG-1 Plug and Abandonment Program."

Work Programs: YMP/WP/93-04, Rev. 0, "UE-25 NRG-1 Plug and Abandonment Program."  
YMP/WP/92-11, Rev. 0, "USW NRG-6, North Portal Ramp Borehole."

Reproduction: 16521 pages copied.  
180 drawing copied.

Documents Issued: 259 controlled documents.  
36 uncontrolled documents.

DTAR logoffs: 183.

Attended weekly FOC staff meetings.

8. Field Training, (SAIC)

- a. Training conducted for GET 1.2, 1.3, and 1.4. A total of 23 people attended.

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- b. 27 GET 1.5 exams were administered, all examinees passed.
- c. First aid training class conducted, 5 people attended.

*Robert White for*

Winfred A. Wilson  
Site Manager

YMP:WAW-422

cc:

R. M. Cameron, CRWMS M&O/YMSO, M/S 717  
M. D. Voegele, SAIC, Las Vegas, NV  
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