



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: NOVEMBER 5, 1992

SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE  
WEEK ENDING OCTOBER 23 and YUCCA MOUNTAIN SITE OFFICE (YMSO)  
FIELD ACTIVITY REPORT FOR WEEKS ENDING OCTOBER 16 AND  
OCTOBER 23, 1992

Please find enclosed the above-referenced report.

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

**OCT 28 1992**

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

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
OCTOBER 23, 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 six major tours this reporting period.

Regarding Job Package (JP) 92-3, drilling activities continue with the LM-300 drill rig on borehole UZ-16. As of October 20, 1992, Reynolds Electrical & Engineering Co., Inc. (REECo), had cored to a depth of 879.23 feet and reamed to 859.23 feet.

On JP 91-9, Neutron Access Boreholes, drilling activities continue with the CME-850 drill rig on USW UZN-35. REECo has cored to a depth of 118.04 feet and reamed to 114.01 feet.

On JP 92-10, NRG-6 Access Road and Drill Pad, excavation work began on the road and drill pad layout.

REECo completed the two trenches at Crater Flats in the vicinity of the Lathrop Wells cinder cone on October 21, 1992.

Sample Management Facility (SMF)

Processing of core and recovery of core and cuttings from UE25 UZ-16 continued. Drilling on and processing of core and cuttings from USW UZN-35 continued. Fifty core specimens were shipped for Los Alamos National Laboratory (Los Alamos) and U.S. Geological Survey (USGS). A management assessment review of the SMF was conducted by the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O).

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Regulatory InteractionsSite Characterization Plan (SCP) Progress Report (PR)

New information from the U.S. Department of Energy (DOE)/Headquarters (HQ) indicates that PR 6 was not submitted to the Secretary of Energy's office for concurrence and approval as was previously reported. Approval is expected on PR 6 from the Assistant Secretary, Environmental Restoration and Waste Management by the end of the week. The expected distribution date for PR 6 is now the end of November 1992. Input for PR 7 has been received from most of the participants and DOE/HQ. The CRWMS M&O is compiling the preliminary draft of PR 7 and it will be distributed for official review on November 9, 1992.

Issue Resolution

The Issues Resolution Steering Group scheduled their next meeting in Albuquerque, New Mexico, on November 17, 1992, to coordinate with the DOE meeting on Expert Judgment which will be held on November 18, 1992, in Albuquerque. Issue prioritization, status of the erosion and calcite-silica reports, and identification of new issues will be discussed.

Advisory Committee on Nuclear Waste (ACNW) Interactions

The ACNW held the Natural Resource Working Group meeting at the St. Tropez Hotel in Las Vegas, Nevada, on October 20, 1992. The topics discussed included methods to investigate the natural resource potential of Yucca Mountain, Nevada. The YMP provided presentations at the ACNW 47th Meeting on October 21, 1992. The ACNW viewed the Geographic Information System and Remote Sensing Laboratory on October 22, 1992, and toured the Yucca Mountain area on October 23, 1992. The tour included briefings at X-Tunnel, Yucca Mountain crest, the LM-300 drill rig, Ghost Dance Fault, and the trenches near Exile Hill where new work is being performed.

Exploratory Studies Facility (ESF) Task Force Activities

Regarding the Independent Technical Review of the 90 percent complete ESF Design Package 1A, the verification process is continuing with some unresolved comments.

SCP Study Plan (SP) Status

One new SP was submitted to the Yucca Mountain Site Characterization Project Office (YMPO) this week: SP 8.3.1.8.1.2, "Physical Processes of Magmatism and Effects on the Potential Repository."

## STUDY PLAN BREAKDOWN

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In Screening Review .....	1
In YMPO and DOE/HQ Review .....	2
Awaiting Comment Resolution .....	11
Awaiting Author Revision .....	5
In YMPO/HQ Verification Audit .....	5
Preparing to Submit or Awaiting YMPO Approval .....	6
Awaiting Submission to the U.S. Nuclear Regulatory Commission (NRC) .....	0
NRC Phase 1 Review .....	15
NRC Acceptance .....	28
Total .....	73

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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
Total SPs Submitted for Review .....	73

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## State of Nevada Comments Status:

Received Comments from the State of Nevada .....	10
Responses Transmitted to the State of Nevada .....	9

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## NRC Comments Status:

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

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B. Project Planning and Control

The year-end cost and Long-Range Plan/Integrated Project Schedule (LRP/IPS) data was received from all participants. The LRP/IPS was crosswalked to the new project work breakdown structure (WBS). The LRP/IPS was divided for each participant.

The project-level data base of September 1992 cost and schedule data was rolled; and project Cost Performance Reports (CPR) and status reports were produced for Project Manager Carl Gertz, Division Directors, and project WBS element managers. The status and CPR were produced and distributed to the participants.

Variance Analysis Reports of the September 1992 status data were prepared at the third level WBS for Division Directors and WBS element managers.

the cost and schedule data is being downloaded from the planning and control System (PACS) INTERIM data base, which encompasses the new project WBS structure, to the participant data bases. The data will then be flowed down to each PACS participant work station (PWS) for updating.

A new Version 3.0 release of the PACS PWS was installed. Upgrades include the ability to reprogram, rebaseline, renumber, and import budget at estimate to complete for summary accounts.

The fifth level WBS Variance Analysis is being prepared for the monthly Division Directors briefing to Carl Gertz.

#### C. Quality Assurance (QA) Implementation

The Office of Civilian Radioactive Waste Management's Yucca Mountain QA Division is conducting Audit YMP-93-01 at USGS in Denver, Colorado.

#### Determination of Importance and Grading Enhancement (DIGE)

#### Quality (Q) List and Q-List Procedure Development

The Assessment Team (AT) continues reviews of the two Sandia National Laboratories reports: the Items Important to Safety report entitled, "Preclosure Radiological Safety Evaluation, Exploratory Studies Facility," and the report, "Disturbance Criteria for Items Important to Waste Isolation: A Methodology and an Application to Unconsolidated Surficial Deposits, SLTR92-0004." Comments on the second report were discussed at the weekly AT meeting on October 21, 1992. The AT selected team members to develop a consolidated problem statement and present it to them on October 28, 1992.

A comment summary is being generated for unresolved comments relative to Implementing Line Procedure (ILP) 1.3, the YMPO selection and application of controls procedure. The summary will be submitted to YMPO for resolution.

#### Management Control List and Procedure Development

An overall DIGE logic process diagram was developed by Technical and Management Support Services (T&MSS). A meeting with YMPO has been scheduled for October 27, 1992, to review the diagram. The Requirements Traceability Network User's Manual is being converted to a YMP document and is in the approval phase.

Implementation

The AT completed its review of 11 Raytheon Services Nevada (RSN) Classification Reports on ESF Design Package 1A and comments are being forwarded to the YMP Deputy Project Manager.

D. Public Outreach and Institutional Activities

The Twentieth Public Open House tour of Yucca Mountain was conducted for approximately 280 people on October 17, 1992. Tour participants visited the Las Vegas Yucca Mountain Information Office (YMIO), the FOC, two laboratories, the LM-300 drill rig, and Yucca Mountain.

Presentations were provided for 15 teachers at the REECo Partners in Education Workshop in Las Vegas. On October 19, 1992, John Hartley, Michael Pitterle, and Linda Linden (all of T&MSS) provided a hands-on presentation on geology with classroom activities; Todd Kaish, CRWMS M&O, gave a presentation on electricity and magnets. On October 21, 1992, Tom Pysto, T&MSS, and Richard Arnold, a consultant, gave an environmental and Native American Indians education presentation. Workshop participants visited the Las Vegas YMIO on October 21, 1992, and were given a guided tour by Melinda d'Ouville, T&MSS.

The YMP sponsored two booths at the Boy Scouts Expo in Las Vegas on October 17, 1992, to advertise the Atomic Energy and Geology Merit Badge Workshops. The Atomic Energy exhibits included hands-on activities such as building a nuclear reactor model, working with radiation monitors, and making electricity with a hand generator. The geology exhibit displayed fossils, rocks, and the new geology stream table. Approximately 100 scouts visited the booths and participated in activities.

David Merritt, T&MSS, gave a geology studies presentation to approximately 25 people at the University of Nevada, Las Vegas (UNLV) Rodman Residence Hall on October 20, 1992. William Andrews, a consultant, also provided an educational presentation at UNLV on October 20, 1992.

Approximately 25 people attended a technical presentation provided by Carl Gertz to the American Nuclear Society (ANS) in Las Vegas on October 20, 1992. Carl Gertz also gave a technical presentation to the ACNW in Las Vegas on October 21, 1992. Approximately 50 people attended the presentation.

Tours to Yucca Mountain were conducted on October 20, 1992, for 12 guests of the Federal Personnel Branch of DOE/NV; on October 23, 1992, for 23 guests of ACNW and 15 guests of the Japan Nuclear Safety Research Association on Nuclear Waste.

James Blink, Lawrence Livermore National Laboratory (LLNL), gave an educational presentation on radiation, nuclear power, and atoms to approximately 60 students at Burkholder Junior High School in Las Vegas on October 20, 1992. Todd Kaish gave an educational presentation on nuclear power reactors to two senior government classes at Bonanza High School on October 21, 1992, in Las Vegas. Approximately 100 students attended his presentation.

Effie Harle, T&MSS, and James Blink attended a luncheon for all LESSON Teacher Workshop participants at LLNL in Livermore, California, on October 22, 1992.

A LESSON Teacher Workshop planning session was held on October 23, 1992, in Las Vegas. The attendees included James Blink, Richard Farnsworth, and Robert Knipes (all of LLNL); Brent Peterson, TIMET; Joyce Woodhouse and Candy Schneider from the Clark County School District; Mary Bayer from the Nye County School District; and Effie Harle. The purpose of the meeting was to begin planning workshops for 1993.

The IEA staff finalized briefing materials and supported YMPO staff at the Transportation Institutional Task Force meeting October 20-21, 1992, in Gaithersburg, Maryland.

Jeanne Cooper, YMPO, gave an educational presentation on geology to the Radioactive Waste Management class, composed of approximately 20 students, at UNLV on October 21, 1992. Richard Arnold gave an educational presentation on Native American culture to approximately 270 students in the third and fourth grade classes of Fong Elementary School in Las Vegas on October 22, 1992. Jean Younker, CRWMS M&O, gave a technical presentation to the American Institute of Hydrology in Portland, Oregon, on October 21, 1992. Approximately 50 people attended the presentation.

Carl Gertz gave a general presentation to the Chamber of Commerce's Discover Southern Nevada Conference in Las Vegas on October 22, 1992. Approximately 60 people attended.

The IEA staff coordinated, set up, and arranged for staffing of a YMP exhibit at the MINExpo conference, October 18-22, 1992, in Las Vegas. The exhibit was visited by approximately 400 mining industry representatives. They also coordinated and arranged staffing for a YMP exhibit at Fairshow '92, October 23-25, 1992, in Las Vegas. The exhibit was visited by approximately 225 members of the general public.

The IEA staff continued coordination with DOE and REECO in planning for the YMP Business Opportunity Briefing, to be held on December 1, 1992, at the Desert Inn Hotel in Las Vegas.

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RSN

The staff is completing the redesign on the North Portal pad, starter tunnel, and highwall. This consists of 81 drawings, 5 specifications, and associated analyses.

CRWMS M&O

The Quarterly Technical Data Catalog was released this week.

LLNL

Calculations of the coupling between hydrology and geochemistry are being made for elevated temperatures in the saturated zone. Results show a promising suite of sorptive minerals would be formed providing a new barrier to radionuclide transport.

YMP

All comments developed as a result of the management, technical, and verification reviews of the ramp sizing study have been received.

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>
<u>A. DOE/HQ Meetings</u>			
Monday, October 26	Program Management Meeting	Washington, DC	C. Gertz
<u>B. CRWMS M&amp;O/DOE Meetings</u>			
Wednesday, October 28	CRWMS M&O Program Review	Vienna, VA	C. Gertz

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C. Internal and DOE/NV Meetings

Wednesday, October 21	NV Monthly Program Review	Las Vegas, NV	C. Gertz
Friday, October 23	Technical Project Officers Meeting	Las Vegas, NV	C. Gertz
Friday, October 23	Planning and Budget Meeting	Las Vegas, NV	C. Gertz
Friday, November 20	State of the Project	Las Vegas, NV	C. Gertz

D. NRC Interactions

Thursday, October 29	Technical Exchange - Functional Analysis of 10 CFR 60 (P)	San Antonio, TX	T. Bjerstedt
TBD	Interaction Planning Meeting (P)	Rockville, MD	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

E. NWTRB Interactions

Wednesday- Friday, November 4-6	NWTRB SG&G Panel Workshop (P)	Las Vegas, NV	J. Cooper
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

Six formal public response letters from concerned citizens were coordinated and finalized by the IEA staff.

## II. ANALYSIS & VERIFICATION DIVISION

The staff attended the ACNW Working Group meeting on Natural Resources on October 20, 1992, and ACNW 47th Meeting October 21-22, 1992. They participated in the Technical Review Group meeting on West Valley Demonstration Project and Defense Waste Processing Facility vitrification projects October 20-22, 1992, in Buffalo, New York.

Technical reviews of the Site Design and Test Requirements Document and Engineered Barrier System Design Requirements Document were completed. Review comments were forwarded to YMPO on October 23, 1992.

## III. GENERAL INFORMATION ITEMS

### Los Alamos

Bruce Crowe is logging and sampling the large trench excavated last month at Lathrop Wells volcanic center. A buried soil profile to provide age constraints is being sought.

### USGS

The staff met with representatives of DOE and RSN to discuss cost and schedule impacts of the inclined Borehole UE-25c #4. Final specifications were set and a commitment was made to complete cost and schedule estimates by October 23, 1992. All outstanding questions were answered regarding three criteria letters for general support, power line, and discharge line required for upcoming testing at the C-Well complex.

Quantitative determination of offsets was made based on examination of outcrops along the Paintbrush Canyon Fault in the rhyolite of Comb Peak. Vertical offset of the marker bed was calculated to be 210 meters with total oblique slip of approximately 250 meters.

U.S. Air Force concerns about right-of-way use of upper Yucca Wash for seismic investigation were addressed with completion of additional planning documents for the seismic reflection traverses near and across Yucca Mountain.

The tentative locations of North Ramp drill holes NRG-2, NRG-3, NRG-4, and NRG-5 were staked. Submittal of rock mechanics data (direct shear and indirect tension) began and will continue until all requirements for RSN are met.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<u>E. NWTRB Interactions (Continued)</u>			
Tuesday- Friday, April 20-23, 1993	NWTRB Full Board Meeting (P)	Reno, NV	J. Cooper
Tuesday, June 1, 1993	NWTRB International Trip	TBD	J. Cooper
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
<u>F. ACNW Interactions</u>			
Monday- Tuesday, November 16-17	ACNW 48th Meeting (P)	Bethesda, MD	A. Gil
Wednesday, November 18	ACNW WG Climate (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

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<u>G. State and Public Interactions</u>			
Saturday, October 24	Girl Scouts of America	Las Vegas, NV	R. Arnold
Monday, October 26	Japanese Atomic Industrial Forum	Las Vegas, NV	TBD
Monday, October 26	Tonopah High School	Tonopah, NV	G. Fasano
Tuesday, October 27	Yucca Mountain Lecture Series (P)	Las Vegas, NV	B. Crowe
Tuesday, October 27	Robert Taylor Elementary School	Henderson, NV	J. Blink S. Wheeler
Thursday, October 29	Yucca Mountain Lecture Series (P)	Pahrump, NV	B. Crowe
Thursday, October 29	Mendoza Elementary School	Las Vegas, NV	R. Arnold
Friday, October 30	Colorado School of Mines	Golden, CO	C. Gertz
Friday, October 30	KNPB-Channel 5 Panel Discussion	Reno, NV	C. Gertz
Monday- Tuesday, November 2-3	Kermit Booker Sixth Grade Center	Las Vegas, NV	J. Blink
Tuesday, November 3	Southern Nevada Vocational Technical School	Las Vegas, NV	M. Foley
Thursday, November 5	University of Waterloo, Department of Earth Sciences	Ontario, Canada	D. Tepper
Friday, November 6	Michigan State University	East Lansing, MI	J. Younker
Saturday, November 7	Nevada State Science Teachers' Conference	Las Vegas, NV	M. Pitterle J. Hartley

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
G. <u>State and Public Interactions (Continued)</u>			
Monday, November 9	Public Update Meeting (P)	Amargosa Valley, NV	C. Gertz
Tuesday, November 10	Public Update Meeting(P)	Las Vegas, NV	C. Gertz
Tuesday, November 10	Cornell University, Department of Geological Sciences	Ithaca, NY	D. Tepper
Thursday, November 12	Kermit Booker Sixth Grade Center	Las Vegas, NV	L. Linden
Thursday, November 12	Public Update Meeting (P)	Reno, NV	C. Gertz
Friday, November 13	Madison 6th Grade Center	Las Vegas, NV	R. Arnold
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	M. Powell
Thursday, November 19	Yucca Mountain Lecture Series (P)	Las Vegas, NV	R. Saunders
Thursday, November 19	Archael Nevada	Las Vegas, NV	R. Arnold
Wednesday, December 2	Court Continuation School	Las Vegas, NV	R. Arnold
Thursday, December 10	Savannah Chapter of ANS	Aiken, SC	C. Gertz
Wednesday, January 13, 1993	ANS	Schenectady, NY	C. Gertz
Thursday, January 14, 1993	ANS	Parsippany, NJ	C. Gertz

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<u>Date</u>	<u>Event</u>	<u>Location</u>
H. <u>Exhibits Scheduled</u>		
Friday- Sunday, October 23-25	Fairshow '92	North Las Vegas, NV
Monday- Thursday, October 26-29	Geological Society of America	Cincinnati, OH
Friday- Saturday, November 6-7	Nevada State Science Conference	Las Vegas, NV
Monday, November 9	Public Update Meeting (P)	Amargosa Valley, NV
Tuesday, November 10	Public Update Meeting (P)	Las Vegas, NV
Thursday, November 12	Public Update Meeting (P)	Reno, NV
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>
<u>I. Tours Scheduled</u>		
Tuesday, October 27	Quail Estates West	TBD
Wednesday, October 28	Southern NV Retired Teachers' Association	TBD
Tuesday, November 3	Thurman White Middle School	TBD
Thursday, November 5	Thurman White Middle School	TBD
Friday, November 6	NRC Commissioner DePlanque	C. Gertz
Saturday, November 7	Republican Senators Nevada	D. Bradford
Tuesday, November 10	Thurman White Middle School	TBD
Thursday, November 12	Thurman White Middle School	TBD
Wednesday, November 18	Public Open House (P)	Various Escorts
Thursday, November 19	Pahrump Middle School	TBD
Monday, November 23	Palo Verde Nuclear Power Station	TBD
Tuesday, December 1	Paradise Christian Academy	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 LV Rotary Club	TBD

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<u>Date</u>	<u>Event</u>	<u>Escorts</u>
I. <u>Tours Scheduled</u> (Continued)		
Saturday, December 12	Public Open House (P)	Various Escorts
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
Tuesday, April 20, 1993	Round Mountain High School	TBD

YMP:VFI-594

*for*   
Carl P. Gertz  
Project Manager



## Department of Energy

Yucca Mountain Site Characterization

Project Office

P. O. Box 98608

Las Vegas, NV 89193-8608

WBS 1.2.7.3

QA: N/A

**OCT 29 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 October 16, 1992, and October 23, 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: LLNL Science and Engineering Students; Boulder City Senior Center; US/UK Defense Coord.; NWTREB; Public Open House; Federal Personnel Branch/NV; Advisory Committee on Nuclear Waste; Japan Nuclear Safety Research Association on HLW.
- b. Provided operations support for field site characterization activities.
- c. Issued vehicles, first aid kits, fire extinguishers, and other necessary equipment to personnel performing field duty.
- d. Final draft of Emergency Management Plan was submitted to Site Manager.
- e. Exchanged 10 sedans for field trucks for YMP Motor Pool, continued ensuring necessary maintenance on the 100 vehicle fleet.
- f. Drafted rough sketch of Little Skull Mountain showing "X" Tunnel and seismic unit in place on crest. Met with UNR, DOE/NV, and RSN to conduct field recon of area.
- g. Reported theft of carburetor from "E" plate vehicle to Nye County Sheriff.
- h. Installed personal VAX computer in Site Manager's Office.
- i. Wrote first draft of GIS Management Plan.
- j. Processed 7 work order requests.
- k. Drafted attachment to FOI 4002, "Photo Coverage" to instruct photographers on Trench and Pit photography to ensure consistency.

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- l. Provided photographic coverage for NWTRW tour.
- m. Made final arrangements for Trench 5 photo session.
- n. OCC approval to be requested for rotary wing photo mission.
- o. Received 2 requests from Headquarters for video footage, forwarded to Institutional for approval.
- p. Received Headquarters approval on two scripts/AV approval forms for REECo/YMP training on the LM-300.
- q. Bullfrog Planning Commission continuing with development of data base for Facilities Management Program.
- r. Preparation made for trip to TTR for inspection and selection of "Chevron" modular units to be brought down for use on YMP in support of field activities.
- s. Site Manager prepared the Job Package (JP) Authorization Letter for JP 92-10, NRG-6, Pad and Access Road. This was pursuant to receipt of Notice to Proceed from the Project Manager.
- t. A new Field Operating Instruction (FOI) has been approved by the Site Manager and issued for Project distribution. This was YMP-FOI-5501, "YMP Operational Control and Emergency Preparedness."
- u. Site Manager also prepared a letter to REECo to commence with upgrading the entire length of the road turn-off from Road "H" to Top of Yucca Mountain. REECo Road Maintenance began the afternoon of October 21, 1992.
- v. Site Manager also prepared a letter to REECo requesting immediate action for subcontractor to replace the broken windows in the Site Office as a result of the June earthquake.

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

- a. Submitted revised WBS to CCD - rolled up to 5th level. Wrote PACs sheets scope of work, based on revised WBS, for all Project Participants. Attending meeting to assign budget levels for participants, based on PACs.
- b. Submitted comments on ESF Requirements Documents to M&O.

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- c. Held meeting of Roads and Traffic Enhancement Committee to discuss traffic controls for "H" road when ESF borrow pits starts operations.
- d. Drafted letter describing in detail how site "buddy" system will operate.
- e. Conducted fire extinguisher inspection of building 4215, 4221, 4230, and 4919.
- f. IH person attended seminar to maintain CIH credentials.
- g. Researched Midway Valley bulldozer trench requirements.
- h. Conducted 08 surveillances; UZ-1=1; UZN-35=1, LM-300=1; and SMF trailer=1; UZ-16=1; SAA site=1; CME-850=1; Cinder Cone Pits=1; and NRG-6 Drill Pad.
- i. Coordinated reply for final draft DOE Nevada Field Office/Yucca Mountain Site Characterization Project Implementation Plan and NV/YMP Radiological Control Plan.
- j. Supported ongoing tours.
- k. Occurrence Reports - none awaiting FR signature.
  - 1. REECo - 5 outstanding: 2 waiting PM signature; 2 rejected (by FR, both on 06/02/92); and 1 initial notification (10/09/92).
  - 2. SAIC - 2 outstanding: 1 rejected (by FR, 07/27/92); and 1 10 day notification (10/13/92).
- l. Drafted and distributed minutes of the Roads and Traffic Enhancement Committee.
- m. Drafted letter on vehicle tires for Site Manager.
- n. Reviewed Site Design and Testing Requirements Documents and Surface-Based Testing Facilities Requirements Documents and submitted comments.
- o. Worked on T&MSS Safety and Health Budget and met with Project Control to resolve issues.

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- p. Drafted letter to EDD for Site manager on Hazard Analysis of ESF Pad and Fran Ridge Borrow Pit.
- q. Attended AMC Mine Expo Convention.
- r. Worked with Project Training department on MSHA requirements for sand and gravel pit.
- s. Worked on VBC Ventilation report.
- t. Conducted noise and total dust surveys at NRG-6.
- u. Conducted air sampling for respirable and total silica during filter change operation at Area 25 Subdock. Operation stopped due to excessive visible emissions. Seeking solution for better methods for filter cleaning.
- w. Began installing cruise control in YMP assigned GSA vans.
- x. One engineering attended GIS/ARC/INFO training.
- y. Supported Outreach Program by manning booth at MINE Expo 92. Four personnel attended technical portions.
- z. Discussions held with SSDC to clarify authority files pertaining to ORPS system.
- a. Trench 5 photo session completed.
- b. Processed 7 work order requests.
- c. Attachment to FOI 4002, "Photo Coverage" to instruct photographers on Trench and Pit photography to ensure consistency. Draft sent to T. Sullivan for comment.
- d. OCC approval to be requested for rotary wing photo mission. Letter drafted for Site Manager's signature.
- e. Requests from headquarters for video footage, were approved and processed.
- f. DNA approval requested to use 1983 X-Tunnel photos for Mike Voegelé presentation to ACNW.

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g. Some members of the Bullfrog Planning Commission made trip to TTR for inspection and selection of "Chevron" modular units to be brought down for use on YMP in support of field activities.

h. Provided the Site Manager with construction and design sequencing and specific recommendations for design schedule.

2. Raytheon Services Nevada, (RSN)

A. Field Support

a. Survey crew continued work on Area 25 control net.

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, Phases I & II. Calculations remain.

d. N-63, N-33, and N-34 Drill Holes ready for survey. Calculations remain. N-31 and N-32 are ready for survey.

e. Staking party for NRG-2, 3, 4, and 5 held 10/07.

f. Issued nine (9) work initiations (WI's) in support of ongoing and upcoming job packages.

g. Field Engineering providing support to JP 91-9/REV 3, JP 92-12, JP 92-7, JP 92-8, and JP 92-10.

h. Current status of JP 92-2, "Test Pits" submitted. JP 92-5, "Test Pits" is in progress.

i. Electrical as-built of FOC, Building 4015 is complete. Drawing(s) change(s) is ongoing.

j. GSF Test Pits are ready for survey, Calculations remain.

k. NRG-1 current configuration - survey, calculation and plotting complete.

l. Busted Butte, Stagecoach, Crater Flats Survey complete. Calculations and plotting remain.

m. Fran Ridge pit and pavement ready for survey except for Pit Mapping by USGS. Calculations complete.

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n. NRG-6 Road and Pad were staked by Survey, 10/16. Completed.

B. Quality Control

- a. Continued verification of activities on UZ-16 borehole utilizing the LM-300 Drill Rig.
- b. Completed verification activities at UZN-32 utilizing the CME-850 Rig.
- c. Completed verification of fences and condition around the following: CF1, Trench 8, SCR-1, 2, 3, and SCF-1, all in good condition.
- d. Verified set-up and start of drilling, coring, and reaming of UZN-35 utilizing the CME-850 Drill Rig.
- e. Following specific packages have been closed and sent to the Records Coordinator:
  1. JP 92-2, NRSF Test Pits #TP3, 4, 5, 10, 11, 12, 13, 14, 15, and 18.
  2. JP 91-9, Boreholes #N-31.
  3. JP 92-2 NRG-1 drill hole.
- f. Continued verification activities at UZN-35 utilizing the CME-850 Rig.
- g. Started verification activities on NRG-6 Pad and Access Road.
- h. Visited trenches SCR-T1, T2, and T3, Trench 8, CF1 and SCF-T, and checked trench and fence condition.
- i. Following specific packages have been closed and sent to the Records Coordinator: JP 92-2, NRSF Test Pits #TP6, 9, 20, 21, 22, 23, and 27.

3. Sample Management Facility, (SMF/SAIC)

- a. Continued recovery and processing core and cuttings from UZ-16.
- b. Completed drilling on UZN-32.
- c. Began drilling operation on UZN-35.
- d. Supported Sample Overview Committee meeting, 10/15.

- e. Transferred 28 core specimens from UZ-16 to USGS.
  - f. Completed drilling on UZN-35.
  - g. Completed processing core and cuttings from UZN-35.
  - h. Shipped 50 core specimens for LANL and USGS.
  - i. Underwent management assessment review by M&O.
4. YMP Hydrologic Research Facility, (USGS)
- a. Normal data retrieval from instrumented holes on Yucca Mountain by Saturated Zone Group.
  - b. Field personnel conducting neutron logging in the field.
  - c. Meteorological Project collecting satellite data, precipitation data and synoptic scale weather chart information.
  - d. Pete Striffler at NTS for monitoring tracer gas injection at UZ-16 and observe core collection for hydrochemical studies.
  - e. Alan Ramelli and Giovanni Naverro at NTS in support of trenching activities at Crater Flats.
  - f. Bill Simonds, Denver, in Calico Hills are to complete mapping Quaternary Faults on Yucca Mountain.
  - g. Mel Neal, Denver, at HRF assisting and support of IDAS Program.
  - h. Conducted water level measurements from WT10, WT7, VH-1, J12, J13, WT6, WT16, WT15, WT14; data collected at WT11, adjusted site antennas to 125 degrees. Hoist unit is done and has been returned. Calibrated well WT11.
  - i. Personnel conducted neutron logging in the field.
  - j. Meteorological Project collecting satellite data, precipitation data and synoptic scale weather chart information. Maintained collection gaged network and replaced pressure transducer on weather station #3.
  - k. Dorothy Tepper at NTS for monitoring tracer gas injection at UZ-16 and observe core collection for hydrochemical studies.

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- l. Bill Simonds and Giovanni Naverro at NTS in Calico Hills are to complete mapping Quaternary faults on Yucca Mountain.
- m. John Wesling and Andy Thomas investigating origin of bedrock step exposed in Trench MWV-T5, east side of Exile Hill, continuing investigation of MWV-T6 and NRSF-TP32.
- n. Bill Gertal, Artificial Infiltration Program, calibrated bulk density sampler behind HRF building.
- o. Chuck Savard, measured water levels in wells UE29a#1, UE29a#2, and UE29UZN#91. Prepared materials for scientific presentation of material documenting groundwater recharge in Fortymile Canyon during Spring, 1992.
- p. Mike Fahey and Paul burger, USBR, mapping Fran Ridge.
- q. Larry Martin and Russ Buckhor, SAIC/Golden, finishing mapping in Ghost Dance Fault and Yucca Mountain.
- r. Lorrie Flint, continued drilling UZN-35 to total depth. Proceeded with plans for 4 neutron holes in Abandoned Wash and continued with input and organization of database for historical neutron log data and information. Continued with water potential measurements on surface soil samples from all neutron holes, proceeded with modeling of long term climatic effects on simulation of UZ-16 saturation profile to prepare paper for HLW Conference, along with modeling of surface boundary conditions to predict annual moisture changes in shallow boreholes.
- s. Stan Breshears, checked and repaired Gas Sampling Apparatuses, set up new calibration benches.
- t. Scott Lundstrom, sampled marsh deposit in Las Vegas Valley. At NTS checking sites and air photo mapping.
- u. Jerry Walker, Air-K Testing, continued to work on Mass Flow Calibration Bench. Reported on deficiencies, actions taken and action remaining for acceptance.
- v. Mohammed Nash, studying relationship between outcrops and unconsolidated material at Pagany Wash and Spilt Wash.
- w. Jim Brune, at NTS to support NRC tour.

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

Activities conducted during week ending October 16, 1992:

A. Drilling

- a. JP 92-3, UZ-16, LM-300, cored to 839.20 feet, reamed to 839.20 feet. Control reaming to reduce and/or stabilize drift angle of borehole.
- b. JP 91-9, CME-850, UZN-35, rigged up, cored to 36.28 feet and reamed to 25.80 feet.

B. Logistics

- a. Continued requisitioning supplies, materials, and services for YMP Field Operations Center.
- b. Made necessary arrangements for feeding, transportation, support, etc, in support of upcoming open house tour.
- c. Supported 5 tours during the week.
- d. Attended Traffic Enhancement Committee meeting 10/15 and Hazardous Materials Communication seminar, 10/12.

C. Construction

- a. No activity.

Activities conducted during week ending October 23, 1992:

A. Drilling

- a. JP 92-3, UZ-16, LM-300, cored to 879.22 feet, reamed to 870.56 feet. Control reaming to reduce and/or stabilize drift angle of borehole.
- b. JP 91-9, CME-850, UZN-35, cored to 138.63 feet and reamed to 138.63 feet.

B. Logistics

- a. Continued requisitioning supplies, materials, and services for YMP Field Operations Center.

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- b. Made necessary arrangements for feeding, transportation, support, etc, in support of upcoming open house tour scheduled 10/17.
- c. Supported 4 tours during the week.

C. Construction

- a. JP 91-9, Neutron Access Borehole, Phase 2... REECO graded the access road to UZN-57, 58, etc.
- b. JP 92-10, NRG-6 Road and Pad... REECO commenced the excavation of topsoil from the Drill Pad. Completed removal and storage of topsoil. Began ripping rock at cut sections of the pad.

6. Los Alamos National Laboratory, (LANL)

- a. Pavement cleaning at Fran Ridge is completed and field mapping is underway. A revision of work order to complete north pit mapping stereo photogrammetry from the platform is proposed to commence 10/20.
- b. Completed responses to questions supporting Classification Analysis (RSN).
- c. Initiated independent technical review of ESF ramp and main drift sizing analysis (RSN).
- d. Work Order for Fran Ridge revised to allow completion of Pit Mapping activity.
- e. Reviewed draft of Job Package 92-20, "ESF North Portal Pad and Facility", several critical interface issues identified and forwarded to the M&O.

7. Documents & Records Center, (M&O)

Activities during week ending October 16, 1992:

- a. Received and Issued to following Controlled Documents:

Job Packages: YMP/JP 92-10, Rev. 0, "NRG-6 Road and Pad."

Test Planning Packages: N/A

Specifications: YMP-025-9-SP07, "Drill Pad NRG-6 Borehole."

Drawings: YMP-025-9-CIVL-PL102, "NRG-6 Borehole Site Plan."

YMP-025-9-CIVL-GP102, "NRG-6 Borehole Grading Plan."

YMP-025-9-CIVL-PR102, "NRG-6 Borehole Road Profile."

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YMP-025-9-CIVL-PR103, "NRG-6 Borehole Cross Sections."  
FCRs: FCR 93/028, Rev. 0, "Standard GSF Test Pits."  
Work Program: N/A

- b. Reproduction:
  - 6797 pages copied.
  - 222 drawing copied.
- c. Documents Issued:
  - 385 controlled documents.
  - 253 uncontrolled documents.
- d. DTAR Logoffs: 65.
- e. Attended weekly FOC staff meeting.
- f. Attended meeting with SAIC on tracking numbers.
- g. DRC staff trained on QAP 17-1.

Activities during week ending October 23, 1992:

- a. Received and Issued to following Controlled Documents:

Job Packages: N/A

Test Planning Packages: YMP/TPP-91-5, Rev 0, "Preliminary ESF Test Planning Package for Support of Pre-Title ESF Design Studies."

Specifications: N/A

Drawings: N/A

FCRs: FCR 93/010, Rev. 0, "Excavation of Trench MWV-T7."

Work Programs: N/A

- b. Reproductions:
  - 7376 pages copied.
  - 20 drawing copied.
- c. Documents Issued:
  - 105 controlled documents.
  - 6 uncontrolled documents.
- d. DTAR logoffs: 37.
- e. Attended weekly FOC staff meeting.

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8. Field Training

- a. Conducted GET 1.2, 1.3, and 1.4 for 8 personnel.
- b. 20 GET 1.5 exams were administered, all passed.

*Winfred A. Wilson*

Winfred A. Wilson  
Site Manager

YMP:WAW-400

cc:

R. M. Cameron, CRWMS M&O/YMSO, Mercury, NV  
M. D. Voegele, SAIC, Las Vegas, NV  
R. R. Schneider, SAIC/YMSO, Mercury, NV  
G. K. Beall, SAIC, Las Vegas, NV  
J. H. Peck, SAIC, Las Vegas, NV  
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Phil Justus, NRC, Las Vegas, NV

bcc:

A. C. Bonk, REECo, Las Vegas, NV