



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

Reply to:
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Las Vegas, Nevada 89101
Tel: (702) 388-6125
FTS: 598-6125

TO: Joseph Holonich, Director, HLPD, M/S 4 H 3

FROM: Paul T. Prestholt and John W. Gilray
Sr. On-Site Licensing Representatives

DATE: April 9, 1992

SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR
THE WEEK ENDING MARCH 20 AND MARCH 27, 1992

Please find enclosed the above-referenced reports.

There is nothing requiring specific management attention in the reports.

nan

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

NOTE TO CHARLOTTE: Also enclosed is the PRELIMINARY FIELD
COMPOSITE BOREHOLE LOG (DATED 4/2/92)

140000

9204140323 920409
PDR WASTE PDR
WM-11

ADD: Charlotte Abrams

102
WM-11
Utr. Encl. NAD3
1 1



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

WBS 1.2.3.5
QA: N/A

APR 02 1992

Carl H. Johnson, State of Nevada, Carson City, NV
Phillip Niedzielski-Eichner, Nye County, Chantilly, VA
Dennis A. Bechtel, Clark County, Las Vegas, NV
Albert C. Douglas, City of Las Vegas, Las Vegas, NV
~~Paul T. Prestholt, NRG, Las Vegas, NV~~

PRELIMINARY FIELD COMPOSITE BOREHOLE LOG

For your information, enclosed is a copy of the Preliminary Field Composite Borehole Log for borehole USW UZN-15 which was developed by the Drilling Support and Sample Management Department of Technical and Management Support Services. Drilling of the borehole was completed on March 24, 1992.

If you need additional information regarding the log, please contact Uel S. Clanton at (702) 794-7943.

RSED:USC-2707

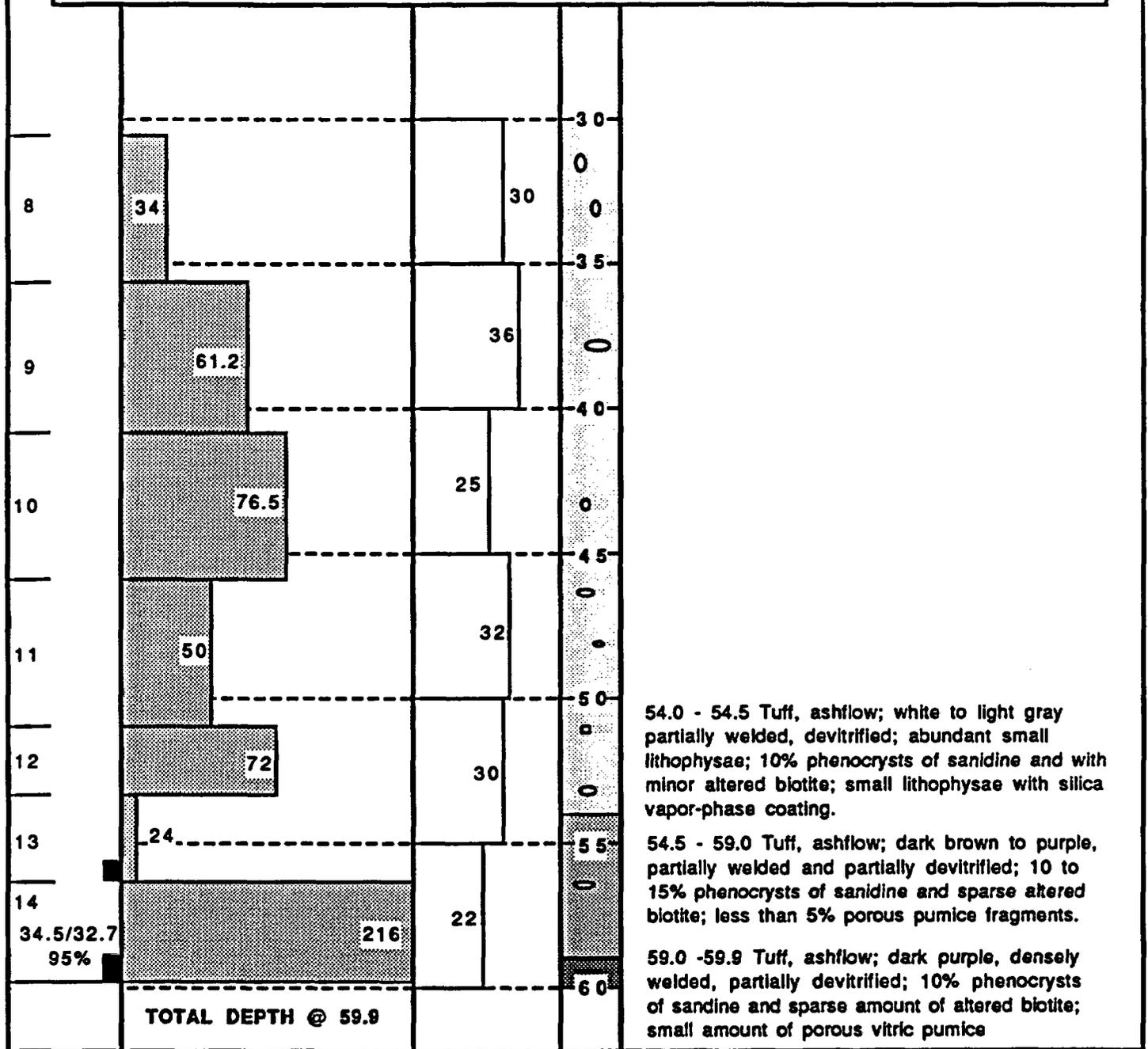
for Maxwell Blanchard
Carl F. Gertz
Project Manager

Enclosure:
Preliminary Field Composite
Borehole Log

**YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
PRELIMINARY FIELD COMPOSITE BOREHOLE LOG (cont.)**

W UZ-N15 pg 2 of 2

geology by Drilling Support Division, Drilling Support and Sample Management Dept., T&MSS



RSN Bit No. 21 Stratapak: SN 2S022555; 15 cutters; 10 water courses 1/4" x 5/16"; diamonds - 20 stones per carat



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WBS 1.2.9.2
QA: N/A

MAR 30 1992

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

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

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

A. Site Characterization Planning

Regulatory Interactions

U.S. Department of Energy (DOE) Technical Exchanges (TE) with the U.S. Nuclear Regulatory Commission (NRC) took place in Albuquerque, New Mexico, March 17-18, 1992. The topics covered at the TEs were "Thermal Loading" and "Air and Vapor Movement Due to Thermal Gradients."

The Annotated Outline Review Group meeting held on March 17, 1992, in Washington, D.C., was attended by Regulatory Interactions Branch (RIB) staff.

Various RIB staff attended the Duke Power Oconee Nuclear Power Station Tour in Clemson, South Carolina, March 18-19, 1992, as well as the Waste Isolation Pilot Plant tour in Carlsbad, New Mexico, on March 19, 1992.

Ardyth Simmons participated as Technical Specialist at the Los Alamos National Laboratory audit March 17-20, 1992, in Santa Fe, New Mexico.

Exploratory Studies Facility (ESF) Task Force Activities

The 50 percent ESF design review is comprised of 28 drawings, 12 analyses and 74 specifications. The status is as follows:

Work is still on track for the independent technical review scheduled for March 30, 1992. The status is as follows:

Total Comment Received	441
Comments Resolved	100
Verification with Reviewer	0

Verifications of comments are scheduled to begin next week.

The 90 percent ESF review will be comprised of 81 drawings, 36 analyses, and 46 specifications. This is in addition to those identified above in the 50 percent design review. The status remains the same as last week.

Site Characterization Plan (SCP) Progress Report

No significant new items to report this week.

SCP Study Plan (SP) Status

No SPs were approved by the Yucca Mountain Site Characterization Project Office (YMPO) during this week.

STUDY PLAN BREAKDOWN

In Screening Review	0
In YMP and Headquarters (HQ) Review	4
Awaiting Comment Resolution Meeting	6
Awaiting Author Revision	11
In YMP/HQ Verification Audit	6
Preparing to Submit or Awaiting YMP Approval	3
NRC Phase 1 Review	17
NRC Acceptance	19
Total	66

SCP/SP Status:

Total SPs Assigned to Cover 106 Studies	103
Total SPs Submitted for Review	
Including Revision to SPs	66
Total SPs Not Yet Submitted for Review	44

State of Nevada Comments Status:

Received Comments from the State of Nevada	8
Responses Transmitted to the State of Nevada	5

NRC Status:

Received Comments from NRC	9
Responses Transmitted from OGD to DOE/HQ	5
Responses Transmitted from DOE/HQ to NRC	4

B. Environmental Programs

Environmental Compliance and Permitting

No significant new items to report this week.

C. Field Operations

The Site Manager and Field Operations Center staff participated in and provided logistical and operational support to two major tours. On Job Package (JP) 92-4, the unsaturated zone (UZ) 16 Drill Pad, Reynolds Electrical & Engineering Co., Inc. (REECo), is placing the compacting fill for the pad. Based on the progress of the work, they should attain final grade by March 19, 1992. Soil compaction and density tests will be conducted to assure the pad has the required moisture content and compaction.

The Site Manager is planning on moving the LM-300 drill rig in place on the pad within the next two weeks, at which time REECo will perform an on site "shakedown" of the rig.

On JP 92-5, which is NRG-1, REECo has excavated 11 test pits and is "grubbing" the access road. Work is progressing on schedule.

The seventh neutron access borehole, UZN-17, will be completed by March 19, 1992. The depth will be 50 feet. REECo will be mobilizing for the next borehole, UZN-15 or UZN-16, in the next few days. Trench 14 will be partially backfilled to allow access of equipment to the next borehole location.

Sample Management Facility (SMF)

A property audit was completed at SMF on March 18, 1992.

The Quality Assurance (QA) staff performed a surveillance of SMF for specimen traceability records, (YMP-SR-92-004).

MAR 30 1992

D. Project Planning and Control

Distributed final fiscal year (FY) 1992 Planning and Control System (PACS) planning products to the Independent Cost Estimate team and YMP participants. Participants products included Planning and Scheduling Account Work Authorization Reports for technical project officers' signatures. Documents are also to be signed by DOE project work breakdown structure element managers to signify agreement between participants and the project on FY 1992 budget and work scope.

Completed installation of Raytheon Services Nevada (RSN) PACS Work Station.

E. QA Implementation

No significant new items to report this week.

Determination of Importance and Grading Enhancement (DIGE)

Continuation of Existing Process

The Quality Review Board and associated assessment team continue to provide support to YMPO while the DIGE effort develops a modified process.

Quality (Q) List and Q-List Procedure Development

Revision of the SCP baseline, based on revised drawings produced by RSN, has been delayed. The revised drawings will require a YMP design verification step (scheduled for March 27, 1991). The Civilian Radioactive Waste Management Systems Management and Operating Contractor (CRWMS/M&O) reported they are on schedule for the development of the draft licensing methodology and the Quality Management Procedure (QMP) 06-04 review of SAND89-7024. Sandia National Laboratories (SNL) is on schedule for development of the process to apply to the alluvium. A preliminary review meeting on the analysis documentation will be conducted on March 24, 1992. Revision to Administrative Procedure (AP) 6.17Q Q-List has been completed and preparations for training will begin next week. Resolution of comments generated by the QMP 06-04 review of draft Q-Grading Procedure, QMP 02-10, continues.

Management Control (MC) List and Procedure Development

Resolution of comments generated by QMP 06-04 of the draft MC List Procedure, AP 5.40, continues. Based on results from the requirements identification/extraction exercise (needed for development of the MC Requirements Plan), the need for an

additional requirements exercise (which will show requirements flow) is indicated. This effort is being estimated. Data entry of requirements, items, and keywords (from the requirements effort) into the Requirements Traceability Network continues. The draft MC Grading Procedure, AP 5.41, continues on hold pending resolution of comments from AP 5.40 and the requirements exercise.

Implementation

Initiation by the participants relative to development of their procedures and lists continues to be delayed, driven by delays in completion of AP 6.17Q approval. In addition, the need for participant procedures as a specific output of this effort is being evaluated.

Task Management

Revision 0 of the Management Plan has been distributed. Efforts continue on Revision 1 of the Management Plan, which will include revisions due to schedule problems and the need for additional efforts (example: requirements exercise).

F. Public Outreach and Institutional Activities

Carl Gertz presented a Technical Project Overview to the Electrical Engineering Honor Society, University of Nevada, Reno, on March 16, 1992.

Presentations on the Yucca Mountain Cultural Resources Program were given by Richard Arnold on March 17, 1992, at Western High School, and on March 18, 1992, at Griffith Methodist Church, Las Vegas, Nevada.

A Project Overview presentation was given by Kenton Beall on March 18, 1992, to the Southern Nevada Floor Covering Association.

On Wednesday, March 18, 1992, Dale Van Natta, CRWMS M&O, gave an overview of their role in YMP to the Lincoln County Impact Alleviation Committee, in Caliente, Nevada.

Presentations were given by Eric Lundgaard, DOE/YMP, Roland Robertson, and Dale Foust, CRWMS M&O, at the State-Affected County Planning Meeting held March 19, 1992, in Reno, Nevada.

A tour of Yucca Mountain, Nevada, was conducted on March 17, 1992, for nine staff members from the DOE Office of Hearings and Appeals.

G. Systems Management and Integration

Geochemistry

No significant new items to report this week.

II. ANALYSIS & VERIFICATION DIVISION

Participated in a management meeting on March 20, 1992, in Washington, D.C., with the Director's office and project management to discuss status of selected project activities.

Participated in a meeting on March 19, 1992, in Washington, D.C., with General Accounting Office (GAO) representatives and the Office of Program and Resources Management to discuss DOE comments on the draft GAO report entitled "NUCLEAR WASTE: DOE's Repository Site Investigations, a Long and Difficult Task."

Participated in a planning meeting with the Office of External Relations to discuss follow-up actions related to May 7, 1992, director's forum on Early Site Suitability Evaluation (ESSE) on March 17, 1992, in Washington, D.C.

On March 18, 1992, presented an update in Washington, D.C., for the Office of Civilian Radioactive Waste Management biweekly seminar on the status of the ESSE report.

Attended the NRC/DOE Technical Exchange on Thermal Loads on March 17, 1992, and the NRC/DOE Technical Exchange on Air and Vapor Movement on March 18, 1992, in Albuquerque, New Mexico.

Completed a technical review under AP 1.10Q for SP 8.3.1.15.1.4, Revision 0, "Laboratory Determination of the Mechanical Properties of Fractures."

Attended the National Academy of Sciences, Separations Technology and Transmutation Systems Study Integration Subpanel meeting March 19-20, 1992, in Washington, D.C. Agenda items of interest included briefings on Waste Repository Design and Performance by YMPO covering applicable regulations and criteria, site and system description, conceptual design of repository and waste package, and performance assessment.

III. GENERAL INFORMATION ITEMS

CRWMS/M&O

The updated System Description Document has been issued for QMP 06-04 review. The proposed program Level 0 and Level 1 milestones have been developed, which will lead to the 2001 license application. A white paper entitled "Confidence in Accomplishment of 2001 License Application" was completed.

RSN

Initiated the development of ESF Work Breakdown Structure 1.2.6, Design Transition Plan.

SNL

The far-field thermal analysis of the repository and the implications regarding thermal loading of ESF have been completed. The analysis of the rock mass properties of the ESF design has been completed. The rock mass properties which were derived will be placed in the Reference Information Base for use in the ESF design.

Lawrence Livermore National Laboratory

As a result of the analyses of repository-heat-driven hydrothermal calculation, it has now been recognized that three hypothesis tests can be used to help focus model validation work and related site characterization activities.

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 handled by the Speakers Bureau; contact Linda Artis at (702) 794-7896 or FTS 544-7896 for additional information. Exhibits are handled by Kevin Rohrer at (702) 794-7769 or FTS 544-7769, and tours are handled by Mindy Wadkins at (702) 794-7374 or FTS 544-7374.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
A. <u>DOE/HQ Meetings</u>			
Friday, April 10	TPO Meeting	Las Vegas, NV	C. Gertz
Friday, April 10	Planning and Budget Meeting	Las Vegas, NV	C. Gertz
Friday, April 24	Program Management Meeting	Washington DC	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMFO Contact</u>
B. <u>Internal and DOE/NV Meetings</u>			
No significant new items to report this week.			
C. <u>NRC Interactions</u>			
Tuesday- Wednesday, April 28-29	Complimentary Cumulative Distribution Function	Albuquerque, NM	T. Bjerstedt
Tuesday, May 19	Interactions Schedulings	Rockville, MD	T. Bjerstedt
Wednesday, May 27	DOE Licensing Topical Report on Erosion	Rockville, MD	T. Bjerstedt
Wednesday, June 3	Drafts on License Application	Rockville, MD	T. Bjerstedt
(TBD) July 1992	Topical Report Calcite-Silica	TBD	T. Bjerstedt
(TBD) August 1992	WIPP - Briefing and Tour	Carlsbad, NM	T. Bjerstedt
(TBD) September 1992	Total System Performance Assessment	TBD	T. Bjerstedt
D. <u>NWTRB Interactions (P)</u>			
Monday- Wednesday, April 6-8	NWTRB Full Board Meeting	Dallas, TX	A. Simmons
Monday, May 11	NWTRB Panel on EBS	Hanford, WA	A. Simmons
Wednesday, May 13	NWTRB Panel on EBS	Idaho Falls, ID	A. Simmons
Tuesday- Friday, July 7-10	NWTRB Full Board Meeting	Denver, CO	A. Simmons
Tuesday- Wednesday, October 13-14	NWTRB Full Board Meeting	Las Vegas, NV	A. Simmons
Thursday- Friday, October 15-16	NWTRB Panel on SG&G	Las Vegas, NV	A. Simmons

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
E. <u>State and Public Interactions</u>			
Saturday, March 21	Westminister Presbyterian Men's Club	Las Vegas, NV	K. Beall
Tuesday, March 24	USCEA Fuel Cycle '92 Conference	Charleston, SC	J. Younker
Wednesday, March 25	Chaparral High School	Las Vegas, NV	S. Hans S. Mattson P. Standish
Thursday, March 26	Family Home Hospice	Las Vegas, NV	R. Arnold
Thursday, March 26	Yucca Mountain Lecture Series	YMIO, Beatty, NV	R. Arnold
Saturday, March 28	Boy Scouts Geology Merit Badge Workshop	Las Vegas, NV	E. Harle
Tuesday, March 31	Yucca Mountain Lecture Series	YMIO, Las Vegas, NV	R. Arnold
Friday, April 3	San Jose State Univ.: Nuclear Waste	San Jose, CA	M. Blanchard
Saturday, April 4	Girl Scouts Merit Badge Workshop	Las Vegas, NV	E. Harle
Thursday, April 9	University of Nevada School of Medicine	Las Vegas, NV	R. Arnold
Saturday, April 11	American Power Dispatchers Assn.	Las Vegas, NV	C. Gertz
Friday, April 24	Soroptimists International	Sacramento, CA	B. Reilly A. Gil E. Harle
Monday, May 4	ASQC Third International Waste Management Conference	Las Vegas, NV	C. Gertz
Thursday, May 7	Nevada Water Savers	Las Vegas, NV	R. Arnold

<u>Date</u>	<u>Event</u>	<u>Location</u>
F. <u>Exhibits Scheduled</u>		
Monday- Wednesday, March 23-25	Nevada Governor's Safety and Health Conference (P)	Las Vegas, NV
Saturday, March 28	Public Open House (P)	Las Vegas, NV
Sunday- Wednesday, April 12-15	International High-Level Radioactive Waste Management Conference	Las Vegas, NV
Saturday, April 25	Public Open House (P)	Las Vegas, NV
Thursday, May 28	Public Open House (P)	Las Vegas, NV
Saturday, June 27	Public Open House (P)	Las Vegas, NV
<u>Date</u>	<u>Event</u>	<u>Escorts</u>
G. <u>Tours Scheduled</u>		
Monday, March 23	Los Angeles Times	G. Fisher B. Crowe
Wednesday, March 25	Energy Fuels Nuclear	TBD
Saturday, March 28	Public Open House (P)	Various Escorts
Thursday, April 2	DOE Office of Hearings and Appeals	TBD
Wednesday, April 14	Beatty High School	S. Tarr
April 17	Level Waste Management Conference	

G. Tours Scheduled (Continued)

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
Friday, Tuesday, April 21	International High Chaparral High School	K. Beall T. Pysto
Wednesday, April 22	Chaparral High School Env. Congress	TBD
Saturday, April 25	Public Open House (P)	Various Escorts
Tuesday, April 28	Las Vegas High School	TBD
Monday May 11	Institute of Shaft Drilling Technology	TBD
Friday, May 22	American Nuclear Society President	C. Gertz
Thursday, May 28	Public Open House (P)	Various Escorts
Saturday, June 27	Public Open House (P)	Various Escorts

YMP:DLH-2579


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

APR 03 1992

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

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING
 MARCH 27, 1992

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

A. Site Characterization Planning

Regulatory Interactions

A transition plan for the Licensing Support Technical Direction Letter to the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O) was transmitted on March 19, 1992.

The Regulatory Interaction Branch staff attended the Duke Power Oconee Nuclear Power Station tour in Clemson, South Carolina, March 24-25, 1992, as well as the Waste Isolation Pilot Plant tour in Carlsbad, New Mexico, on March 26, 1992.

Exploratory Studies Facility (ESF) Task Force Activities

The 50 percent ESF design review is comprised of 28 drawings, 12 analyses, and 74 specifications. The status is as follows:

<u>Drawings</u>		<u>Analysis</u>		<u>Specifications</u>	
Through Review	(28)	Review	(12)	Review	(74)
Through Engineering	(28)	Initial Draft	(12)	Initial Draft	(74)
Through Computer-Aided Draft Design	(28)	Final Draft	(12)	Final Draft	(74)

Work is continuing for the independent technical review scheduled for March 30, 1992. The status of the 50 percent management review is as follows:

Total Comments Received	441
Comments Resolved	417
Verification With Reviewer	0

Note: Verification of comments is scheduled to begin on Friday, March 27, 1992.

The 90 percent ESF Review will be comprised of 79 additional drawings, 38 additional analyses, and an additional 44 specifications. This is in addition to those identified above in the 50 percent design review. The status remains the same as last week.

Site Characterization Plan (SCP) Progress Report

No significant new items to report this week.

SCP Study Plan (SP) Status

Three SPs are in preparation for Yucca Mountain Site Characterization Project Office (YMPO) approval. They are: SP 8.3.1.2.2.5., "Diffusion Test in the ESF"; SP 8.3.1.2.3.2., "Characterization of the Saturated Zone Hydro-Chemistry"; and SP 8.3.1.3.4.2., "Biological Sorption and Transportation." These SPs cannot be processed further because of verbatim compliance problems with Revision 4 of Administrative Procedure (AP) 1.10Q. These compliance problems are resolved by Revision 5 of AP 1.10Q, currently scheduled for issuance during the week of March 30 to April 3, 1992, with an effective date of April 3, 1992.

STUDY PLAN BREAKDOWN

In Screening Review	0
In YMP and Headquarters (HQ) Review	4
Awaiting Comment Resolution Meeting	6
Awaiting Author Revision	11
In YMP/HQ Verification Audit	6
Preparing to Submit or Awaiting YMP Approval	3
U.S. Nuclear Regulatory Commission (NRC) Phase 1 Review	17
NRC Acceptance	19
Total	66

SCP/SP Status:

Total SPs Assigned to Cover 106 Studies	103
Total SPs Submitted for Review	
Including Revision to SPs	66
Total SPs Not Yet Submitted for Review	44

State of Nevada Comments Status:

Received Comments from the State of Nevada	8
Responses Transmitted to the State of Nevada	5

NRC Status:

Received Comments from NRC	9
Responses Transmitted from OGD to	
the U.S. Department of Energy (DOE) HQ	5
Responses Transmitted from DOE/HQ to NRC	4

Field Operations

The Site Manager and Field Operations Center staff participated in and provided logistical and operational support to three major tours.

On Job Package (JP) 92-2, NRG-1, seven additional test pits have been excavated. Reynolds Electrical & Engineering Co., Inc. (REECo), has completed "grubbing" the access road and is now stockpiling fill that will be used for the road.

As of March 19, 1992, REECo finished the drill pad construction on JP 92-4, UZ-16 Drill Pad. The design grade elevation and compaction criteria were met. However, as of March 24, 1992, some deficiencies were noted in the fill elevations. Raytheon Services Nevada (RSN) and DOE are meeting to prepare a revision to the civil drawing. REECo will then do additional grading as soon as practical.

No activity was conducted this period on JP 92-5, Midway Valley.

The Safety and Health Advisory Committee, which meets monthly, is making plans for the forthcoming 1992 safety program.

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Sample Management Facility

Logged core and processed samples from UZN-15 reaching a total depth on March 24, 1992. Began core logging and cuttings collection on UZN-16, and started processing 186 borehole specimens.

B. Environmental ProgramsEnvironmental Compliance and Permitting

No significant new items to report this week.

C. Project Planning and Control

Completed installation of Planning and Control System (PACS) workstations for Lawrence Livermore National Laboratory (LLNL), U.S. Geological Survey (USGS), and RSN. Reinstalled the Technical and Management Support Services (T&MSS) PACS workstation. T&MSS became the first participant to input their own PACS data as the February 1992 actuals were entered into the database.

Produced PACS performance reports for fiscal year (FY) 1992 performance through February 1992, and distributed the reports to participants, Division Directors, and project work breakdown structure element managers.

D. Quality Assurance (QA) Implementation

No significant new items to report this week.

Determination of Importance and Grading Enhancement (DIGE)Continuation of Existing Process

The Quality Review Board and associated Assessment Team continue to provide support to YMPO while the DIGE effort develops a modified process.

Quality (Q)List and Q-List Procedure Development

The revision of the Site Characterization Program Baseline (SCPB) continues to be delayed. An assessment of the SCPB, relative to drawings revised in earlier tasks, is occurring to ensure that sufficient basis exists to complete the SCPB revision. No

APR 03 1992

status has been obtained on CRWMS M&O progress on development of a draft licensing strategy and the Quality Management Procedure (QMP) 06-04 review of SAND89-7024 relative to this draft licensing strategy. A review of the results of Sandia National Laboratories' (SNL) alluvium assessment revealed additional effort required to complete. SNL will provide a target completion date next week. An assessment of procedures to determine if existing procedures accomplish the intent of the draft QMP 02-10, Q-Grading Procedure, is targeted to be complete on March 31, 1992. The effort to train staff to be trainers on the new or revised procedures is on schedule.

Management Control (MC) List and Procedure Development

Resolution of comments, generated by QMP 06-04, of the draft MC List Procedure, AP 5.40, is on hold while staff are involved in training and working on other tasks. An additional requirements extraction effort is under way, involving three examples of requirements flow-down through existing project documentation. Data entry of these requirement results continues. The draft MC Grading Procedure, AP 5.41, continues to be on hold pending resolution of comments from AP 5.40 and the requirements exercise.

Implementation

Initiation by the participants relative to development of their procedures and lists will occur with completion of establishment of the new assessment team, at which time the new or revised procedures will become effective. In addition, the need for participant procedures as a specific output of this effort is being evaluated.

Task Management

A draft of Revision 1 of the Management Plan is in progress, targeted to be submitted for management review on April 1, 1992.

E. Public Outreach and Institutional Activities

A project overview presentation was given by Ken Beall to the Westminster Presbyterian Men's Club on March 21, 1992.

The Project Manager gave a project overview presentation to Rudy Abramson, Los Angeles Times, at the Las Vegas Yucca Mountain Information Office (YMIO), prior to his departure for a tour of Yucca Mountain, Nevada, on March 23, 1992.

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Project overview presentations were given by Gregory Fasano, Science Applications International Corporation (SAIC) and Joseph Calovini, RSN, at Community College of Southern Nevada, Henderson, Nevada, on March 23, 1992. On March 24, 1992, Jean Younker, CRWMS M&O, gave a presentation at the U.S. Council for Energy Awareness Fuel Cycle '92 meeting in Charleston, South Carolina.

Educational presentations on geology, hydrology, and transportation were given by Steven Mattson and Paul Standish, SAIC, at Chapparral High School on March 25, 1992. On March 26, 1992, Richard Arnold gave a presentation on the Yucca Mountain Cultural Resources Program to Family Home Hospice.

The Yucca Mountain lecture series, American Indian Cultural Presentation, was presented by Richard Arnold at YMIO in Beatty, Nevada, on March 26, 1992.

The YMP exhibit was set up and staffed for the Nevada Governor's Safety and Health Conference in Las Vegas, Nevada, on March 23-25, 1992.

A tour of the Nevada Test Site and a briefing on the Yucca Mountain scientific studies were conducted on March 24, 1992, for 23 University of Nevada, Reno, faculty and staff members.

A tour of Yucca Mountain was conducted on March 25, 1992, for five guests from Energy Fuels Nuclear.

F. Systems Management and Integration

Geochemistry

No significant new items to report this week.

II. ANALYSIS & VERIFICATION DIVISION

Participated in a meeting with the Office of External Relations on March 24, 1992, in Washington D.C., to review the status of written materials being developed to support the May 7, 1992 Director's forum.

Participated in a Comment Resolution Meeting on March 24, 1992, in Washington, D.C., on QA APs 3.5, 5.1 and 6.2.

APR 03 1992

Initiated a verification review under AP 1.10Q for SP 8.3.1.5.2.2, Revision 0, "Future Regional Hydrology Due to Climate Changes."

Initiated a verification review under Implementing Line Procedure 22.3.1 for SP 8.3.1.4.2.1, Revision 0, "Characterization of the Vertical and Lateral Distribution of Stratigraphic Units within the Site Area."

III. GENERAL INFORMATION ITEMS

CRWMS M&O

An all-day meeting was held to develop tasking, schedules, and milestones in support of the System Implications of Thermal Loading System Study. This meeting was attended by representatives from the Office of Civilian Radioactive Waste Management (OCRWM), SNL, DOE/HQ, YMPO, CRWMS M&O, and LLNL. An agreement was developed on technical and administrative coordination responsibilities.

YMP

Briefings on Trade Studies planned for FY 1992-93 and on Evaluation of a Prototype Facility were presented to the OCRWM Director and his staff on March 20, 1992. The Waste Package staff made a presentation on the Engineered Barrier System at the Program Manager's meeting in Washington, D.C., on March 25, 1992.

LLNL

Three critical hypotheses have been developed to focus hydrology validation work in addressing the following questions:

1. Does repository heat-driven-hydrothermal flow dominate the ambient hydrological system?
2. Do boiling conditions and rock dryout effects dominate hydrological performance?
3. Does the dryout front correspond to the nominal boiling point isotherm and is far-field heat flow dominated by heat conduction?

If the answer to each of these three hypothesis tests is yes, then the validation of hydrologic performance models of the site can be greatly focused, thereby enhancing the probability that adequate validation can be achieved.

APR 03 1992

Los Alamos National Laboratory

Gathered material to support a presentation made by YMPO to OCRWM for the Yucca Mountain Prototype Test Facility. A log of "To-Be-Developed" items needed to support the ESF Design Review, Appendix B Test Requirements, was prepared.

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 handled by the Speakers Bureau; contact Linda Artis at (702) 794-7896 or FTS 544-7896 for additional information. Exhibits are handled by Kevin Rohrer at (702) 794-7769 or FTS 544-7769, and tours are handled by Mindy Wadkins at (702) 794-7374 or FTS 544-7374.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
A. <u>DOE/EQ Meetings</u>			
Friday, April 10	TPO Meeting	Las Vegas, NV	C. Gertz
Friday, April 10	Planning and Budget Meeting	Las Vegas, NV	C. Gertz
Friday, April 24	Program Management Meeting	Washington, DC	C. Gertz
B. <u>Internal and DOE/NV Meetings</u>			
No significant new items to report this week.			
C. <u>NRC Interactions</u>			
Tuesday- Wednesday, April 28-29	Complimentary Cumulative Distribution Function	Albuquerque, NM	T. Bjerstedt
Tuesday, May 19	Interactions Schedulings	Rockville, MD	T. Bjerstedt
Wednesday, May 27	DOE Licensing Topical Report on Erosion	Rockville, MD	T. Bjerstedt

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMFO Contact</u>
C. <u>NRC Interactions (Continued)</u>			
Wednesday, June 3	Drafts on License Application	Rockville, MD	T. Bjerstedt
(TBD) July 1992	Topical Report Calcite-Silica	TBD	T. Bjerstedt
(TBD) August 1992	WIPP - Briefing and Tour	Carlsbad, NM	T. Bjerstedt
(TBD) September 1992	Total System Performance Assessment	TBD	T. Bjerstedt

D. NWIRB Interactions (P)

Tuesday- Wednesday, April 7-8	NWIRB Full Board Meeting	Dallas, TX	A. Simmons
Monday, May 11	NWIRB Panel on EBS	Hanford, WA	A. Simmons
Wednesday, May 13	NWIRB Panel on EBS	Idaho Falls, ID	A. Simmons
Tuesday- Friday, July 7-10	NWIRB Full Board Meeting	Denver, CO	A. Simmons
Tuesday- Wednesday, October 13-14	NWIRB Full Board Meeting	Las Vegas, NV	A. Simmons
Thursday- Friday, October 15-16	NWIRB Panel on SG&G	Las Vegas, NV	A. Simmons

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
E. <u>State and Public Interactions</u>			
Saturday, March 28	Boy Scouts Geology Merit Badge Workshop	Las Vegas, NV	E. Harle

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
E. <u>State and Public Interactions</u> (Continued)			
Tuesday, March 31	Yucca Mountain Lecture Series	YMIO, Las Vegas, NV	R. Arnold
Friday, April 3	San Jose State Univ.: Nuclear Waste	San Jose, CA	M. Blanchard
Saturday, April 4	Girl Scouts Merit Badge Workshop	Las Vegas, NV	E. Harle
Monday- Tuesday, April 6-7	Jack Dailey Elementary School	Las Vegas, NV	E. Harle
Thursday, April 9	University of Nevada School of Medicine	Las Vegas, NV	R. Arnold
Thursday, April 9	Derfelt Elementary School	Las Vegas, NV	E. Harle
Saturday, April 11	American Power Dispatchers Assn.	Las Vegas, NV	C. Gertz
Tuesday, April 14	High-Level Radioactive Waste Mgmt Conference	Las Vegas, NV	C. Gertz
Monday, April 20	Elko County Library	Elko, NV	A. Robison P. Standish
Wednesday, April 22	UNLV	Las Vegas, NV	R. Arnold
Thursday, April 23	Science Now	Las Vegas, NV	C. Gertz
Thursday, April 23	American Planning Association	Las Vegas, NV	TBD
Friday, April 24	Soroptimists International	Sacramento, CA	B. Reilly A. Gil E. Harle
Wednesday, April 28	Yucca Mountain Lecture Series	Las Vegas, NV	P. Standish

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
E. <u>State and Public Interactions</u> (Continued)			
Thursday, April 30	Lions Club	Las Vegas, NV	G. Fasano
Monday, May 4	ASQC Third International Waste Management Conference	Las Vegas, NV	C. Gertz
Thursday, May 7	Nevada Water Savers	Las Vegas, NV	R. Arnold
Thursday, May 7	Yucca Mountain Lecture Series	Pahrump, NV	P. Standish
Wednesday, May 20	Fallon Board of Realtors	Fallon, NV	C. Binzer
<u>Date</u>	<u>Event</u>	<u>Location</u>	

F. Exhibits Scheduled

Saturday, March 28	Public Open House (P)	Las Vegas, NV
Sunday- Wednesday, April 12-15	International High- Level Radioactive Waste Management Conference	Las Vegas, NV
Friday, April 24	Soroptimists International	Sacramento, CA
Saturday, April 25	Public Open House (P)	Las Vegas, NV
Monday, May 11	Public Update Meeting (P)	Pahrump, NV
Tuesday, May 12	Public Update Meeting (P)	Henderson, NV
Thursday, May 14	Public Update Meeting (P)	Carson City, NV

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<u>Date</u>	<u>Event</u>	<u>Location</u>
F. <u>Exhibits Scheduled</u> (Continued)		
Thursday, May 28	Public Open House (P)	Las Vegas, NV
Saturday, June 27	Public Open House (P)	Las Vegas, NV
<u>Date</u>	<u>Event</u>	<u>Escorts</u>
G. <u>Tours Scheduled</u>		
Saturday, March 28	Public Open House (P)	Various Escorts
Thursday, April 2	DOE Office of Hearings and Appeals	TBD
Thursday, April 2	Mark Holt Congressional Research Service	TBD
Friday, April 10	Mineral County	C. Binzer
Monday, April 13	Troop 281	TBD
Tuesday, April 14	Beatty High School	S. Tarr
Wednesday, April 15	Mescalero Apache	C. Gertz
Wednesday, April 15	Western Interstate	TBD
Friday, April 17	International High- Level Waste Management Conference	K. Beall
Tuesday, April 21	Chaparral High School	T. Pysto

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<u>Date</u>	<u>Event</u>	<u>Escorts</u>
G. <u>Tours Scheduled</u> (Continued)		
Wednesday, April 22	Chaparral High School Env. Congress	TBD
Saturday, April 25	Public Open House (P)	Various Escorts
Tuesday, April 28	Las Vegas High School	TBD
Thursday, April 30	Mineral County	C. Binzer
Wednesday, May 6	USGS Management	R. Craig
Monday, May 11	Institute of Shaft Drilling Technology	TBD
Friday, May 22	American Nuclear Society President	C. Gertz
Thursday, May 28	Public Open House (P)	Various Escorts
Saturday, June 27	Public Open House (P)	Various Escorts

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Carl P. Gertz
Project Manager