



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

Reply to:
301 East Stewart Ave., #203
Las Vegas, Nevada 89101
Tel: (702) 388-6125
FIS: 8/702-388-6125

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

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

DATE: May 13, 1992

SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR
THE WEEK ENDING APRIL 17, and APRIL 24, 1992 and YUCCA
MOUNTAIN SITE OFFICE (YMSO) FIELD ACTIVITY REPORT FOR
THE WEEKS ENDING APRIL 24 and MAY 1, 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 LANL Monthly
Activity Report for February, 1992
(We did not retain a copy in Las Vegas).

180171

102
WM-11
N403



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

*Revised with
additions 5/13/92*

WBS 1.2.9.2
QA: N/A

APR 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
APRIL 17, 1992

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

A. Site Characterization Planning

Regulatory Interactions

No significant new items to report this week.

Exploratory Studies Facility (ESF) Task Force Activities

The 50 percent design review is complete. The final verification of comments was scheduled for Friday, April 17, 1992. The 90 percent design review status remains unchanged from last week. In addition to those in the 50 percent review, the 90 percent review is comprised of 80 drawings, 38 analyses, and 52 specifications. The status is as follows:

<u>DRAWINGS</u>	<u>ANALYSES</u>	<u>SPECIFICATIONS</u>
38 Through Engineering	17 Initial Draft	8 Initial Draft
16 Through Computer-Aided Draft Design	0 Final Draft	6 Final Draft
2 Through Review	0 Through Review	0 Through Review

Site Characterization Plan (SCP) Progress Report

No significant new items to report this week.

102

APR 28 1992

SCP Study Plan (SP) Status

Three SPs with preliminary records packages were presented to the Yucca Mountain Site Characterization Project Office (YMPO) for approval. These were:

SP 8.3.1.2.3.2, "Characterization of the Saturated Zone Hydro-Chemistry"

SP 8.3.1.2.2.5, "Diffusion Test in the ESF"

SP 8.3.1.4.2.2, Activities .3 and .5, "Characterization of the Structural Features Within the Site Area"

STUDY PLAN BREAKDOWN

In Screening Review	0
In YMP and Headquarters (HQ) Review	4
Awaiting Comment Resolution Meeting	3
Awaiting Author Revision	15
In YMP/HQ Verification Audit	5
Preparing to Submit or Awaiting YMP Approval	5
U.S. Nuclear Regulatory Commission (NRC) Phase 1 Review ...	17
NRC Acceptance	19
Total	68

SCP/SP Status:

Total SPs Assigned to Cover 106 Studies	103
Total SPs Submitted for Review	
Including Revision to SPs	67
Total SPs Not Yet Submitted for Review	44

State of Nevada Comments Status:

Received Comments from the State of Nevada	9
Responses Transmitted to the State of Nevada	5

NRC Comments 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

APR 28 1992

Field Operations

The Site Manager and Field Operations Center staff participated in and provided logistical support to six major tours during this reporting period.

The Site Manager presented a white paper to the Project Manager, Division Directors, and other staff members for their review and comment on general support facilities, siting alternatives for Area 25.

Regarding Job Package (JP) 92-9, USW UZN-38, as of April 13, 1992, the hole was cored and reamed to the depth of 60 feet. Regarding JP 92-4, UZ-16, Reynolds Electrical & Engineering Co., Inc., brought the drill pad into compliance and is mobilizing the drill rig on the pad.

Sample Management Facility (SMF)

Completed UZN-38 on April 13, 1992. Continued processing of core and cuttings and completed processing 174 specimens for the U.S. Geological Survey (USGS). SMF staff attended training for Stock Picker Operations. Initiated sample collection at UZN-64.

B. Project Planning and Control

Continued to input updates to participant accounts in the M2001 database as provided by the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O) integrators. Produced revised Cost Plans for review of progress in meeting the fiscal year 1993 revision goal.

Received March 1992 performance data from participants (actuals and schedule status) and updated participant databases. Transferred progress dates from the schedule and rolled participant and PACSPRO databases. Produced performance reports for distribution.

C. Quality Assurance (QA) Implementation

No new significant 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.

APR 28 1992

Quality (Q) List and Q-List Procedure Development

The draft revision of the Site Characterization Program Baseline is still in progress, targeted for submittal for Change Control Board action on April 16, 1992. Sandia National Laboratories (SNL) is in the process of developing responses to the Quality Management Procedure (QMP) 06-04 comments on SAND89-7024, and the QMP-06-04 review of the draft licensing methodology (developed by CRWMS M&O) is being initiated. The above tasks have slipped and the impacts on initiating SNL's effort to revise the Items Important to Safety process are being assessed. SNL is developing the documentation of the Items Important to Waste Isolation process as developed and applied to the alluvium. Discussion continues on the approach and effort needed to complete the analysis. Impacts will be assessed.

Discussions continue with YMP QA relative to use of the draft QMP-02-10, Q-Grading Procedure. Use of Procedure Application Guides may be pursued.

Management Control (MC) List and Procedure Development

Emphasis has been placed on completion of the MC List Plan. The example extraction and data entry exercises are being completed as input to the plan development. The exercises will also be the basis for the schedule and necessary funding portions of the plan. A workshop to discuss technical progress of the DIGE effort is planned for April 24, 1992.

Implementation

As stated in previous status, initiation of procedure and list development by participants will occur when procedures become effective and a new Assessment Team is in place.

Task Management

Revision 1 of the DIGE Management Plan continues in internal review prior to submittal for review and change control.

D. Public Outreach and Institutional Activities

A project overview presentation was given by the Project Manager to the American Power Dispatchers Association on April 11, 1992.

The Project Manager and several YMP personnel gave presentations at the International High-Level Radioactive Waste Management (IHLRW) conference, Las Vegas, Nevada, April 12-16, 1992.

APR 28 1992

Thirty elementary students from the Creative Kids Learning Center, Las Vegas, Nevada, toured the Las Vegas Yucca Mountain Information Office on April 14, 1992.

Project overview presentations were given by Eric Lundgaard and Arch Girdley in Riverton, Wyoming, on April 15, 1992, and in Lander, Wyoming, on April 16, 1992.

Tours to Yucca Mountain, Nevada, were conducted on April 13, 1991, for guests from Troop 281, and IHLFWM conference spouses; on April 15, 1992, for ten guests from the Mescalero Apache Tribe, and ten guests from Western Interstate. On April 17, 1992, 130 guests from IHLFWM toured Yucca Mountain.

The YMP exhibit was set up and staffed for the following events: Clark County Fair, Logandale, Nevada, April 10-12, 1992; American Power Dispatchers' Association meeting, Las Vegas, Nevada, April 11, 1992; and IHLFWM conference, Las Vegas, Nevada, April 12-15, 1992.

E. Systems Management and Integration

Geochemistry

No significant new items to report this week.

II. ANALYSIS & VERIFICATION DIVISION

Attended the IHLFWM conference April 12-16, 1992, in Las Vegas, Nevada.

Revised comments on the draft General Accounting Office report entitled "Nuclear Waste: DOE's Repository Site Investigations, a Long and Difficult Task."

Participated in resolution of YMPO comments to the ESF Title II 50 percent design review of Package 1A, the North Portal surface support area.

III. GENERAL INFORMATION ITEMS

CRWMS M&O

Twelve of the nineteen Grading Reports have been reviewed and approved by the CRWMS M&O/QA organization.

A major effort is ongoing to prepare three "what if" alternatives regarding the potential restructuring of the Mined Geologic Disposal System program.

APR 28 1992

Lawrence Livermore National Laboratory (LLNL)

An analysis of potential prototype engineered barrier system field tests was started. In order to investigate whether in situ heater testing in rock, which is similar to that in the repository horizon, is useful in evaluating the critical hypothesis that heat convection may dominate far-field repository heat flow, focus was centered on the temperature and saturation distributions during the first ten years of the repository-scale calculations. Repository-scale calculations are used to investigate the impact of far-field heat convection because drift-scale calculations used periodic boundary conditions that constrain the size of convection cells. It was found that there were very striking differences in both the temperature and saturation distribution between cases with heat conduction-dominated and heat convection-dominated far-field heat flow.

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 (702) 794-7896 for additional information. Exhibits are handled by Kevin Rohrer at (702) 794-7769 or FTS (702) 794-7769, and tours are handled by Mindy Wadkins at (702) 794-7374 or FTS (702) 794-7374.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
A. <u>DOE/HQ Meetings</u>			
Tuesday, April 28	Program Management Meeting	Washington, DC	C. Gertz
Thursday- Friday, May 7-8	Director's Forum	Chicago, IL	C. Gertz
B. <u>Internal and DOE/NV Meetings</u>			
Wednesday, April 15	Nevada Manager's Monthly Program Review	Las Vegas, NV	C. Gertz
C. <u>NRC Interactions</u>			
Tuesday- Wednesday, April 28-29	Complimentary Cumulative Distribution Function	Albuquerque, NM	T. Bjerstedt

APR 28 1992

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
C. <u>NRC Interactions (Continued)</u>			
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. NWTRB Interactions (P)

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>			
Monday, April 20	Elko County Library	Elko, NV	A. Robison P. Standish

APR 28 1992

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
E. <u>State and Public Interactions (Continued)</u>			
Monday, April 20	Twin Lakes Elementary School	Las Vegas, NV	E. Harle
Monday, April 20	UNLV Freshman Forum	Las Vegas, NV	C. Gertz B. Reilly
Wednesday, April 22	UNLV	Las Vegas, NV	R. Arnold
Thursday, April 23	Chaparral High School Environmental Congress	Las Vegas, NV	C. Gertz A. Flint
Thursday, April 23	Science Now	Las Vegas, NV	C. Gertz
Thursday, April 23	American Planning Association	Las Vegas, NV	M. Foley
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
Thursday, April 30	Yucca Mountain Information Office	Pahrump, NV	C. Gertz
Thursday, April 30	Lions Club	Las Vegas, NV	G. Fasano
Monday, May 4	Beatty High School	Beatty, NV	R. Arnold
Monday, May 4	ASQC Third International Waste Management Conference	Las Vegas, NV	C. Gertz
Tuesday, May 5	Past Presidents of Rotary	Fallon, NV	G. Fasano
Wednesday, May 6	Glazing Contractors Association of Nevada	Las Vegas, NV	K. Beall

APR 28 1992

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
Thursday, May 7	Nevada Water Savers	Las Vegas, NV	R. Arnold
Thursday, May 7	Yucca Mountain Lecture Series	Pahrump, NV	P. Standish

E. State and Public Interactions (Continued)

Wednesday, May 13	Southern Nevada Chapter of National Spa & Pool Institute	Las Vegas, NV	K. Beall
Thursday, May 14	McQueen High School	Reno, NV	C. Gertz
Wednesday, May 20	Fallon Board of Realtors	Fallon, NV	C. Binzer
Friday, May 22	Tonopah Elementary School	Tonopah, NV	J. Blink
Friday, May 22	Silver Rim Elementary School	Tonopah, NV	J. Blink
Saturday, May 30	Boy Scouts Geology Merit Badge Workshop	Las Vegas, NV	E. Harle
Thursday, June 18	Nevada Republic Women's Club	S. Lake Tahoe, NV	C. Gertz
Thursday, June 18	Association for Commercial Development	Las Vegas, NV	A. Robison

<u>Date</u>	<u>Event</u>	<u>Location</u>
-------------	--------------	-----------------

F. Exhibits Scheduled

Monday, April 20	UNLV Freshman Forum	Las Vegas, NV
Friday, April 24	Soroptimists International	Sacramento, CA
Saturday, April 25	Earth Day/Earth Fair	Las Vegas, NV

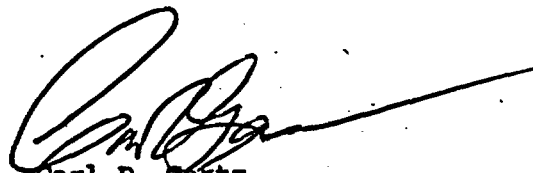
APR 28 1992

<u>Date</u>	<u>Event</u>	<u>Location</u>
F. <u>Exhibits Scheduled (Continued)</u>		
Saturday, April 25	Public Open House (P)	Las Vegas, NV
Sunday- Thursday, May 3-6	ASQC International Waste Management Conference	Las Vegas, NV
Monday- Thursday, May 11-14	Institute of Shaft Drilling Technology	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
Thursday, May 14	McQueen High School	Reno, 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>		
Wednesday, April 22	Chaparral High School	T. Pysto
Wednesday, April 22	LLNL and DOE/OHA	J. Blink
Thursday, April 23	TRW	TBD
Friday, April 24	Ken Taylor	T. Bjerstedt

APR 28 1992

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
G. <u>Tours Scheduled</u> (Continued)		
Saturday, April 25	Public Open House (P)	Various Escorts
Tuesday, April 28	Las Vegas High School	TBD
Thursday, April 30	Mineral County	C. Binzer
Friday, May 1	Task Force	A. Robison
Friday, May 1	LLNL	J. Blink
Tuesday, May 5	Beatty High School	S. Tarr L. Camp F. Baird
Wednesday, May 6	USGS Management	R. Craig
Thursday, May 7	Clark High School	TBD
Friday, May 8	LLNL	J. Blink
Monday, May 11	Institute of Shaft Drilling Technology	TBD
Wednesday, May 20	Las Vegas High School	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



Carl P. Gertz
Project Manager

YMP:DLH-2984



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

MAY 05 1992

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

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING
APRIL 24, 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 and operational support for five major tours.

Regarding the neutron access boreholes, Reynolds Electrical & Engineering Co., Inc. (REECo), has completed two additional boreholes during the week. Those completed were UZN-38, cored down to approximately 89.6 feet; and UZN-64, cored down to approximately 60 feet. REECo has rigged up and mobilized for the next neutron borehole which is N-27 located on top of Yucca Mountain, Nevada, at the north edge. Drilling started April 21, 1992, and it was bored to 35 feet.

Regarding the UZ-16 drill pad, REECo continues to mobilize and set in place the respective equipment and trailer components. They are in the process of installing the grounding loop from the generators to other sources.

Job Package (JP) 92-3 for the drilling activities to be accomplished by the LM-300 drill rig is still being developed and prepared.

Water Monitoring Well JF-3: The pump was pulled last week on JF-3 and the final completion equipment for long-term monitoring was brought in. The completion string will be run by the middle of this week, and the rig will be demobilized. The site will then be cleared to install the surface test equipment and initiate reclamation.

Midway Valley Investigations (JP 92-5): Geomatrix continued logging pits last week. A list of completed pits was submitted this week. All 19 test pits, as required per the JP, have been completed.

MAY 05 1992

Soil and Rock Properties, North Exploratory Shaft Facility (ESF) Portal Area (JP 92-2): A total of 29 of 32 test pits have been completed. No activity on soil and rock is anticipated until mid-week.

Sample Management Facility

Began drilling USW UZN-27. Completed recovery of core and cuttings from UZN-64. Continued processing core and cuttings samples from USW UZN-38,64,27.

Shipped 194 borehole specimens to the U.S. Geological Survey (USGS) and Los Alamos National Laboratory (Los Alamos).

Regulatory Interactions

No significant new items to report this week.

Geochemistry

A final version of recommendations from the December 1991 quarterly meeting was approved by the Geochemistry Integration Team (GIT) for forwarding to the Yucca Mountain Site Characterization Project Office (YMPO). Several communication issues are related to data requirements for iterative performance assessments, and schedule compatibility between geochemical data development and application in performance calculations.

An agenda for the first joint GIT Hydrology Integration Task Force meeting was developed and circulated to team members for comment. The focus of the meeting will be on physical and chemical data for identifying preferential transport pathways.

The GIT offered comments on a correlation matrix between study plans and anticipated geochemical processes that was prepared by Technical & Management Support Services (T&MSS).

Discussions of performance assessment validation methodology were held by GIT, and the need for consensus on validation strategy was reiterated. Fundamentally different requirements and expectations apply to validation of geochemical as opposed to hydrologic models, and should be reflected in an overall strategy.

ESF Task Force Activities

The 50 percent ESF Design Review is complete. The final verification of comments was completed on Friday, April 17, 1992.

MAY 05 1992

In addition to those in the 50 percent review, the 90 percent review is comprised of 80 drawings, 38 analyses, and 52 specifications. The 90 percent Design Review status is as follows:

<u>DRAWINGS</u>	<u>ANALYSES</u>	<u>SPECIFICATIONS</u>
44 Through Engineering	22 Initial Draft	10 Initial Draft
18 Through Computer-Aided	1 Final Draft	7 Final Draft
Draft Design	0 Through Review	2 Through Review
2 Through Review		

Site Characterization Plan (SCP) Progress Report (PR)

PR 5 is still in concurrence at the U.S. Department of Energy, Headquarters (DOE/HQ). Input for PR 6 has been received from most of the participants and compilation of the document has begun.

SCP Study Plan (SP) Status

Three SPs were approved by YMP this week. These were: SP 8.3.1.2.2.5, SP 8.3.1.2.3.2, and SP 8.3.1.4.2.2.

STUDY PLAN BREAKDOWN

In Screening Review	0
In YMP and HQ Review	5
Awaiting Comment Resolution Meeting	6
Awaiting Author Revision	10
In YMP/HQ Verification Audit	8
Preparing to Submit or Awaiting YMP Approval	1
Awaiting Submission to the U.S. Nuclear Regulatory Commission (NRC)	3
NRC Phase 1 Review	16
NRC Acceptance	20
Total	69

SCP/SP Status:

Total SPs Assigned to Cover 106 Studies	103
Total SPs Submitted for Review	
Including Revision to SPs	69
Total SPs Not Yet Submitted for Review	44

State of Nevada Comments Status:

Received Comments from the State of Nevada	9
Responses Transmitted to the State of Nevada	5

NRC Comments Status:

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

B. Project Planning and Control

Produced the Planning and Control System performance reports for fiscal year 1992 through March 1992, for distribution to YMPO. Compiled and distributed reports in folders by Project Manager, Division Directors, and project work breakdown structure (WBS) element managers. Reports included project level Cost Performance Reports and appropriate WBS and Planning and Scheduling Account summary reports and graphs.

Completed a revision of the Mission 2001 database that integrated Long Range Plan dates with the revised cost data. A detailed Cost Plan was prepared and a matrix developed for the Independent Cost Estimate (ICE) that compares the March 1992 cost plan data provided ICE with the M2001 cost plan data. The ICE team made site visits to REECO and Raytheon Services Nevada.

C. Quality Assurance (QA) Implementation**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 to Administrative Procedure (AP) 6.17Q classification of Items Important to Safety have been completed and approved by the Project Manager. The assessment team has been nominated to carry out the responsibilities of the procedure.

MAY 05 1992

A Change Control Board (CCB) package is being developed for the draft revision of the Site Characterization Program Baseline. The next CCB meeting is scheduled for next week. Sandia National Laboratories (SNL) is reviewing the package, the results from the Civilian Radioactive Waste Management Systems Management and Operating Contractor (CRWMS M&O) Quality Management Procedure (QMP) 06-04 review of SAND89-7024, and the draft licensing methodology to determine how to expedite remaining steps in reaching a new Items of Interest to Safety. SNL continues to rework the Items of Interest to waste isolation process as applied to the alluvium. A status meeting is scheduled for the week of May 4, 1992, at SNL.

Agreement has been reached with YMP QA relative to use of procedure application guides in place of the proposed QMP 02-10 (Q-Grading). Training efforts continue in preparation for providing training on procedures resulting from the DIGE effort. A project personnel workshop was conducted on April 24, 1992, to brief staff on DIGE progress.

YMPO personnel met with RW-30 personnel and participant representatives on April 24, 1992, on implementation of the classification process.

Management Control List and Procedure Development

Emphasis continues on completion of the Management Control Requirements (MCR) List Plan. The results of the example extraction and data entry exercised are being incorporated into the plan. An internal management review will occur next week. Continued development of AP 5.40 and AP 5.41 are dependent on completion of the MCR List Plan.

YMPO personnel met with RW-30 personnel on April 22, 1992, to discuss combining the work needed to support this effort with the ARMS data base effort.

Implementation

As stated in previous status, initiation of procedure and list development by participants will occur when procedures become effective and a new assessment team is in place. However, participants are beginning to draft procedures for their organizations.

Task Management

Revision 1 of the DIGE Management Plan continues in internal review prior to submittal for review and change control.

MAY 05 1992

D. Public Outreach and Institutional Activities

Carl Gertz, Project Manager, and Beatrice Reilly of T&MSS participated as panelists in a University of Nevada, Las Vegas (UNLV), Freshman Forum on April 20, 1992. A total of eight panelists participated and approximately 500 students attended the forum. The project exhibit was set up and staffed for this event.

Project overview presentations were given by Paul Standish, T&MSS, at the Elko County Library, Elko, Nevada, on April 20, 1992; and by Michael Foley to members of the American Planning Association on April 23, 1992.

The Project Manager, U.S. Senator Richard Bryan, and Alan Flint of USGS participated as panelists in a student forum for the Chaparral High School Environmental Congress on April 23, 1992.

A project overview presentation was given by the Project Manager for participants of Science Now, held at the EG&G Energy Measurements, Inc., North Las Vegas, Nevada, facility on April 23, 1991.

Educational presentations were given by Effie Harle, T&MSS, on April 20, 1992, at Twin Lakes Elementary School; and on April 23, 1992, at W. E. Ferron Elementary School. An American Indian Cultural presentation was given by Richard Arnold, T&MSS, at UNLV Rodman Residence Hall, April 22, 1992.

Beatrice Reilly, Effie Harle, and April Gil conducted a workshop titled, "Yucca Mountain as a Repository," at the Soroptimist International 16th Regional Conference, Sacramento, California, on April 24, 1992.

Tours to Yucca Mountain, Nevada, were conducted on April 22, 1992, for 70 guests from Chaparral High School, 15 guests from Lawrence Livermore National Laboratory (LLNL), and the DOE Office of Hearings and Appeals; on April 23, 1992, for 15 guests from CRWMS M&O and 45 guests from Tours of Distinction; and on April 24, 1992, for Ken Taylor, Congressional Science Fellow working on U.S. Senator Harry Reid's staff.

II. ANALYSIS & VERIFICATION DIVISION

Verification Review of YMPO SP 8.3.1.4.2.1, entitled "Characterization of the Vertical and Lateral Distribution of Stratigraphic Units Within the Site Area," was completed.

MAY 05 1992

The revised SP has been reviewed against the proposed dispositions for the DOE/HQ comments made at the comment resolution teleconference held on December 20, 1991. The revisions to the document were found to satisfactorily address the proposed dispositions.

III. GENERAL INFORMATION ITEMS

CRWMS M&O

A presentation was given to the CRWMS M&O Integration Working Group on ESF, which completed the 50 percent design. The second CRWMS M&O SNL Technical Exchange Meeting was held at SNL and was attended by 20 CRWMS M&O personnel. The SCP Conceptual Design Report was discussed in detail. SNL responded to prepared questions by CRWMS M&O personnel.

SNL

A technical exchange meeting was held with staff from the Canadian Underground Research Laboratory. Fielding of a large mining test was discussed along with instrumentation problems and in situ stress measurement techniques. The SNL staff benefited greatly from the interchange. A letter report on the interchange was forwarded to DOE/HQ.

LLNL

The LLNL-YMP Software Quality Manager and the lead software engineers and/or principal investigators conducted informal walkthroughs of the Individual Software Plans and Software Configuration Management Systems for the EQ3/6 geochemistry code family, GEMBOCHS geochemistry database control software, and PANDORA performance assessment code.

Los Alamos

Los Alamos supported and participated in the YMP ESF design oversight review meeting. Los Alamos also participated in a meeting with YMP Division Directors of engineering and site divisions in a briefing at Los Alamos on the management of ESF testing. A draft technical rationale for a Prototype Test Facility for YMP was developed.

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 (702) 794-7896 for additional information. Exhibits are handled by Kevin Rohrer at (702) 794-7769 or FTS (702) 794-7769, and tours are handled by Mindy Wadkins at (702) 794-7374 or FTS (702) 794-7374.

MAY 05 1992

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
A. <u>DOE/HQ Meetings</u>			
Monday, April 27	Program Management Meeting	Washington, DC	C. Gertz
Thursday- Friday, May 7-8	Director's Forum	Chicago, IL	C. Gertz
B. <u>CRWMS M&O/DOE Meetings</u>			
Wednesday, April 29	Monthly Program Mgt. Review Meeting	Vienna, VA	C. Gertz
C. <u>Internal and DOE/NV Meetings</u>			
No significant meetings scheduled this week.			
D. <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

MAY 05 1992

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
E. <u>NWTRB Interactions (P)</u>			
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>
F. <u>State and Public Interactions</u>			
Monday, April 27	Nevada State Student Council Conference	Las Vegas, NV	A. Robison
Tuesday, April 28	Yucca Mountain Lecture Series	Las Vegas, NV	P. Standish
Wednesday, April 29	Helen Herr Elementary School	Las Vegas, NV	R. Arnold
Thursday, April 30	Yucca Mountain Information Office	Pahrump, NV	C. Gertz
Thursday, April 30	Lions Club	Las Vegas, NV	G. Fasano
Monday, May 4	Beatty High School	Beatty, NV	R. Arnold
Monday May 4,	ASQC Third International Waste Management Conference	Las Vegas, NV	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
F. <u>State and Public Interactions</u> (Continued)			
Tuesday, May 5	Past Presidents of Rotary	Fallon, NV	G. Fasano C. Binzer
Wednesday, May 6	Glazing Contractors Association of Nevada	Las Vegas, NV	K. Beall
Thursday, May 7	Nevada Water Savers	Las Vegas, NV	R. Arnold
Thursday, May 7	Yucca Mountain Lecture Series	Pahrump, NV	P. Standish
Monday, May 11	Public Update Meeting (P)	Pahrump, NV	C. Gertz
Tuesday, May 12	Public Update Meeting (P)	Henderson, NV	C. Gertz
Wednesday, May 13	Southern Nevada Chapter of National Spa & Pool Institute	Las Vegas, NV	K. Beall
Thursday, May 14	Public Update Meeting (P)	Carson City, NV	C. Gertz
Thursday, May 14	McQueen High School	Reno, NV	C. Gertz
Monday, May 18	Southern Nevada Chapter of Chevron Retirees Association	Las Vegas, NV	P. Standish
Wednesday, May 20	Fallon Board of Realtors	Fallon, NV	C. Binzer
Thursday, May 21	Yucca Mountain Lecture Series	Beatty, NV	J. Blink
Friday, May 22	Tonopah Elementary School	Tonopah, NV	J. Blink
Friday, May 22	Silver Rim Elementary School	Tonopah, NV	J. Blink

MAY 05 1992

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
F. <u>State and Public Interactions (Continued)</u>			
Tuesday, May 26	Yucca Mountain Lecture Series	Las Vegas, NV	J. Blink
Tuesday, May 26	Associated General Contractors	Las Vegas, NV	A. Robison
Saturday, May 30	Boy Scouts Geology Merit Badge Workshop	Las Vegas, NV	E. Harle
Thursday, June 11	Catholic Daughters of the Americas	Las Vegas, NV	R. Arnold
Thursday, June 18	Nevada Republic Women's Club	S. Lake Tahoe, NV	C. Gertz
Thursday, June 18	Association for Commercial Development	Las Vegas, NV	A. Robison
Monday, August 31	Nuclear Information & Records Management Association Symposium	San Francisco, CA	C. Gertz
Thursday, September 17	American Nuclear Society	Lynchburg, VA	C. Gertz
Monday- Tuesday, September 21-23	Emerging Technologies for Hazardous Waste Management	Atlanta, GA	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>
G. <u>Exhibits Scheduled</u>		
Saturday, April 25	Earth Day/Earth Fair	Las Vegas, NV
Saturday, April 25	Public Open House (P)	Las Vegas, NV
Sunday- Wednesday, May 3-6	ASQC International Waste Management Conference	Las Vegas, NV

<u>Date</u>	<u>Event</u>	<u>Location</u>
G. <u>Exhibits Scheduled</u> (Continued)		
Monday- Thursday, May 11-14	Institute of Shaft Drilling Technology	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
Thursday, May 14	McQueen High School	Reno, 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>
H. <u>Tours Scheduled</u>		
Saturday, April 25	Public Open House (P)	Various Escorts
Tuesday, April 28	Las Vegas High School	TBD
Tuesday, April 28	Nevada Student Council	TBD
Thursday, April 30	Mineral County	C. Binzer
Friday, May 1	Task Force	A. Robison
Friday, May 1	LLNL	J. Blink

MAY 05 1992

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
H. <u>Tours Scheduled</u> (Continued)		
Tuesday, May 5	Beatty High School	S. Tarr L. Camp F. Baird
Wednesday, May 6	USGS Management	R. Craig
Thursday, May 7	Clark High School	TBD
Friday, May 8	LLNL	J. Blink
Monday, May 11	Institute of Shaft Drilling Technology	TBD
Friday, May 15	Orr Junior High School	TBD
Wednesday, May 20	Las Vegas High School	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-3078


Carl P. Gertz
Project Manager



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

WBS 1.2.7.4
QA: N/A

MAY 07 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 April 24, 1992 and May 1, 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: Chaparral High School; LLNL & DOE Office of Hearings and Appeals; M&O/TRW; Tours of Distinction; Ken Taylor; General Public Open House; Las Vegas High School; Nevada Student Council; Mineral County; Secretary of Energy Task Force; LLNL; University of Colorado-Boulder; Task Force on Public Trust and Confidence.
- b. The Site Manager, as Chairman of the Field Change Control Board (FCCB) approved 2-Field Change Requests (FCR's) for JP 91-9 and JP 92-2. These were issued for distribution.
- c. AP's 5.21Q and 3.5Q were revised to reflect Lessening of Field Change Control Process for effecting changes in the field. These have been put in the QMP 06-04 review cycle.
- d. The Site Manager allocated additional space assignment in the Yucca Mountain Site Office to Clark County; M&O/TRW and LANL.
- e. The Site Manager was assured by DOE/PCB, that an additional \$100K would be transferred to WBS 1.2.7.4.1 for the continuation of YMSO support to tours for the balance of FY' 92.
- f. The REECO Logistics person was sent to Tonopah Test Range to inventory some of the excess furniture that could be utilized for YMP in completing the layout within the Yucca Mountain Site Office.
- g. A letter was submitted to DOE/IMPD from the Site Manager requesting concurrence in increasing our Las Vegas Motor Pool fleet by eight new "92" vehicles from GSA.

MAY 07 1992

- h. Provided operations support for field site characterization activities.
- i. Supported ongoing tour efforts.
- j. AP 2.9, "Occurrence Reporting and Processing of Operations Information" submitted for 06-04 review.
- k. ARC/INFO software, for GIS Support, procurement initiated.
- l. On Wednesday, April 29, 1992, at 9:00 a.m., at the YMSO, the pre-proposal conference was conducted by REECO for the Technical Support and Underground Excavation for ESF subcontract. 32 prospective bidders were in attendance.

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

- a. Interviewed prospective employee.
- b. Met with personnel who are revising WBS.
- c. Site Manager signed letter to TPO's on Safety Equipment required in P/U Trucks. SHCD to do spot inspections.
- d. RW-30 comments incorporated into YMP S&H Plan.
- e. Made inspections of UZ-16, and N-27.
- f. Attended coordination meeting at UZ-16.
- g. Completed work on safety handout for employees.
- h. Met several time with SMF personnel concerning obtaining bulk samples from drillholes.
- i. Ordered Fire Extinguishers and brackets for FOC vehicles.
- j. Survey of UZ-16 drill pad. |Several deficiencies noted. Discussions held with DOE, T&MSS, and REECO representatives.
- k. Set tentative date for Safety Promotion Day. Speaker will be available Thursday, August 13.
- l. Safety Specialist attended OPM training "Introduction to Supervision".

MAY 07 1992

- m. Discussion on open findings from Compliance Assessment Team inspection (1991), SHCD to work on corrections so final close out can be done.
- n. Reviewed defensive driving class presentation for training department.
- o. Attended ICE meeting and presented forecast for SHCD needs through 2001.
- p. Continued working with SMF personnel on core extruded repairs and procedures.
- q. Attended committee meeting on Tracers, Fluids, and Materials Management.

C. Work Request/Photographic Coordination

- a. Continued to provide photographic support for ongoing field activities.
- b. Began contacting delinquent Photo survey respondents.
- c. Developed cost projection for FY 93 and FY 94 and submitted projected to Site Manager.
- d. Video taped Trench 14 with USGS personnel.
- e. Provided Photo coverage of Pahrump Information Office Open House.

2. Raytheon Services Nevada, (RSN)

A. Field Support

- a. Survey crew continued work on Area 25 control net.
- b. The Field Engineering Group checked the Trench 14 walls on a daily basis in order to determine its suitability for continued operations.
- c. The Field Engineering Group supporting NRG-1, Midway Valley, and Soil and Rock Properties.
- d. Survey crew establishing control and existing Drill Hole sites.
- e. Survey crew supporting NRG-1, Midway Valley Trenches, and Soil and Rock Properties.

f. Field Engineering Group working on records packages and as built of completed projects.

g. Survey crew doing as-built of UZ-16 drill pad.

B. Quality Control

a. Worked on UZ-16 grounding.

b. Wrote Field Verification Plan for UZ-16 drilling.

c. Worked on UZ-16 Document Package.

d. Performed walkdown and inspection of Pits for Soils and Rock Studies.

e. Monitored activities of JP 92-2, excavation of 4 test pits.

f. Published Field Verification Plan for UZ-16 drilling.

g. Monitored drilling activities on the Neutron Bore Hole, N-27.

3. Sample Management Facility, (SAIC)

a. Began Drilling at USW UZN-27.

b. Completed recovery of core and cuttings from UZN-64.

c. Continued processing core and cuttings samples from UZN-38, UZN-64, and UZN-27.

d. Shipped 194 borehole specimens to USGS and Los Alamos.

e. Continued processing core and cuttings from UZN-27.

f. Completed supporting coring activities at UZN-27.

g. Completed processing core from UZN-16, and UZN-64. Continued processing cuttings from same holes.

h. Completed inventory system for field supply.

4. YMP Hydrologic Research Facility, (USGS)

a. Normal data retrieval from instrumented holes on Yucca Mountain by Saturated Zone Group.

MAY 07 1992

- b. Field personnel conducting neutron logging in the field.
 - c. Meteorological Project collecting satellite data, precipitation data and synoptic scale weather chart information.
 - d. Grady O'Brien, USGS/YMP assisting Alan Flint on Unsaturated Zone Project.
 - e. Kevin Scofield is rig sitting, assisting Alan Flint on Unsaturated Zone Project.
 - f. Mike Chornack at NTS to conduct UZ Section activities and assist on Public Tour.
 - g. Dick Luckey at NTS, HRF, Death Valley, and to assist on Public Tour.
 - h. Ed Weeks, Denver, in field for sample collection in Yucca Mountain Area.
 - i. Alan Riggs, Denver, and and Ike Wynograd, Washington at NTS and Death Valley for Pup Fish environmental studies at Devil's Hole and Amargosa Valley.
 - j. Mark McKewon, John Darnell, and Bureau of Reclamation staff preserving samples from trenches in Midway Valley.
 - k. Jon Darnell and Staff with Bureau of Reclamation staff preserving samples from trenches in Midway Valley.
5. Reynolds Electrical and Engineering Co., Inc., (REECO)

Activities conducted during week ending April 24, 1992:

A. Drilling

- a. JP 91-9, Neutron Access Boreholes, moved CME rig and tools from UZN-64 to UZN-27. cored and cased to 80.02 feet.
- b. JP 92-1, JF-3 Water Monitoring Well, ran 2 strings of monitoring casing to 818.03 feet and 817.89 feet. Rigged down and moved equipment to subdock.
- c. JP 92-4, UZ-16, Rigging up LM-300 Rig and all equipment.

MAY 07 1992

B. Logistics

- a. Continued requisitioning supplies, materials, and services for YMP Field Operations Center.
- b. Supported ongoing and continued preparations for upcoming Tours.
- c. Setup DOE Trailer at UZ-16, arranged for furniture and equipment to be delivered and installed.

C. Construction - No activity.

Activities conducted during week ending May 1, 1992:

A. Drilling

- a. JP 91-9, Neutron Access Boreholes, UZN-27; cored to 190.84 feet and Odex to 188.96 feet.
- b. JP 92-4, UZ-16, Rigging up and testing equipment on the LM 300 Rig.

B. Logistics

- a. Continued requisitioning supplies, materials, and services for YMP Field Operations Center.
- b. Supported ongoing and continued preparations for upcoming tours.

C. Construction

- a. JP 92-2....Completed excavation of the last three (3) remaining test pits. Also completed the soil density pads as requested by U.S. Bureau of Reclamation.

6. Los Alamos National Laboratory, (LANL)

- a. Initiation of five Test Planning Packages for the North Portal. Launch chamber is in process.
- b. Specifications for the ESF VARS being developed.

7. Document and Records Center, (SAIC)

Activities during week ending April 24, 1992:

MAY 07 1992

a. Received and issued for controlled distribution:

FCR 92/074, "Borehole Location Revision, JP 91-9".
FCR 92.078, "Addition of USBR Procedure 7100 and Editorial Changes to JP 92/2, Addition to C.I. Numbers to Drawing YMP-025-9-CIVL-GE01 REV. 0".

- b. Supported HLWM Conference tour, 04/17.
- c. Attended FOC staff meeting.
- d. Met with Mike Fahy, USBR, regarding record retrievals.
- e. Corrected FCR 92/026MI for FCR 92/027.
- f. Copies 3,023 pages for YMP staff.
- g. Issued no controlled documents.
- h. Reproduced 121 engineering copies.
- i. Issured 5 uncontrolled documents.

Activities during week ending May 1, 1992:

a. Received and issued for controlled distribution:

FCR 92/026MI, "Addition of Casing, Well JF-3, Cost and Schedule Change".
FCR 92/027, "Addition of Casing String to Competent Point".

- b. Attended SAIC all hands meeting with Mike Voegele at FOC.
- c. Attended FOC staff meeting.
- d. Supported on going tours.
- e. Provided overview for Job Package Coordinators regarding DRC activities.
- f. Closed Items 1 and 3 on YMSCP Violation Notice (T&MSS-FOC-92-1) regarding DRC records vault door.
- g. Preparing for QA Audit, scheduled for 05/-4 through 08.
- h. Copies 5,950 pages for YMP staff.

Carl P. Gertz

-8-

MAY 07 1992

- i. Issued 65 controlled documents.
- j. Reproduced 26 engineering copies.
- k. Issued 10 uncontrolled documents.

8. Field Training

- a. Conducted GET 1.2, 1.3, and 1.4 training for 5 persons.

Winfred A. Wilson

Winfred A. Wilson
Site Manager

YMP:WAW-289

cc:

R. M. Cameron, M&O/YMSO, M/S 717
R. R. Schneider, SAIC/YMSO, M/S 717
G. K. Beall, SAIC, Las Vegas, NV
J. H. Peck, SAIC, Las Vegas, NV, M/S 719
C. J. Cotten, SAIC, Las Vegas, NV
I. R. Cottle, SAIC, Las Vegas, NV
M. B. Blanchard, YMP, Las Vegas, NV
R. V. Barton, YMP, Las Vegas, NV
J. R. Dyer, YMP, Las Vegas, NV
S. B. Jones, YMP, Las Vegas, NV
U. S. Clanton, YMP, Las Vegas, NV
J. T. Sullivan, YMP, Las Vegas, NV
R. B. Baumeister, YMP/YMSO, M/S 717
R. J. White, YMP/YMSO, M/S 717
W. R. Tunnell, YMP/YMSO, M/S 717
P. T. Prestholt, NRC, Las Vegas, NV

bcc:

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