



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

Reply to:
301 East Stewart Ave., #203
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 1, 1992

SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR
THE WEEK ENDING FEBRUARY 28, 1992 AND MARCH 13, 1992
(March 6 was sent previously) AND THE YMSO FIELD
ACTIVITY REPORT FOR THE WEEKS ENDING MARCH 13 AND
MARCH 20, 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

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PDR WASTE PDR
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WM-11
NH03



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

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

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

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

A. Site Characterization Planning

Regulatory Interactions

A guidance letter for participants, U.S. Department of Energy Headquarters (DOE/HQ), and the Yucca Mountain Site Characterization Project Office (YMPO) input to the Site Characterization Progress Report (PR) 6 was transmitted to technical project officers on March 4, 1992.

Letters of invitation and notification of Exploratory Studies Facility (ESF) Title II Design Reviews to the Nuclear Waste Technical Review Board (NWTB), the State of Nevada, and HQ Office of Systems and Compliance were transmitted March 6, 1992. Design reviews are scheduled for the week of March 30, 1992, at Science Applications International Corporation (SAIC), Las Vegas, Nevada.

A meeting of the Issue Resolution Steering Committee was held March 11, 1992. It was attended by the Office of Systems and Compliance, OGD, and contractor staff. Topics included status of the erosion topical report and the role of the Civilian Radioactive Waste Management Systems Management and Operating contractor (CRWMS/M&O) in issue resolution.

ESF Task Force Activities

The 50 percent 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 (CADD)	(28)	Final Draft	(12)	Final Draft	(74)

ESF Task Force Activities (Continued)

Comments have been submitted by reviewers. The most significant comments were with regard to the implementation of safety and waste isolation requirements. Work is still on track for the independent technical review scheduled for March 30, 1992.

The 90 percent ESF review is comprised of 81 drawings, 36 analyses, and 46 specifications. The status is as follows:

<u>Drawings</u>	<u>Analysis</u>	<u>Specifications</u>
Through Engineering (11)	Initial Draft (07)	Initial Draft (02)
Through CADD (02)	Final Draft (00)	Final Draft (00)
Through Review (01)	Review (00)	Review (00)

Site Characterization Plan (SCP) PR

No significant new items to report this week.

SCP Study Plan (SP) Status

No SPs were approved by YMP during this week.

SP BREAKDOWN

In Screening Review	0
In YMP and HQ Review	4
Awaiting Comment Resolution Meeting	6
Awaiting Author Revision	11
In YMP/HQ Verification Audit	7
Preparing to Submit or Awaiting YMP Approval	2
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

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NRC Status:

Received Comments from the 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 four major tours.

Reynolds Electrical & Engineering Co., Inc. (REECo), commenced site preparation on Job Package (JP) 92-4, UZ-16 Drill Pad. REECo is presently hauling field material to elevate the pad to the required design elevation. It is anticipated that the pad will be finished by March 13, 1992.

Work has also started on JP 92-5, Midway Valley trenches and test pits. Eleven test pits and approximately four trenches have been completed .

Regarding the JF-3 Water Monitoring Well, the pump test was completed on March 5, 1992. Approximately 500,000 gallons were pumped in 36 hours, with a draw-down of approximately one foot in Well J-12.

REECo has finished the sixth new borehole which is UZN-36. The total depth is approximately 60 feet. After the remaining four holes, which are N-15, N-16, N-17, and N-37, are completed on Azreal Ridge, no new holes are planned.

Sample Management Facility

Shipped 24 specimens from UZN-36 to the U.S. Geological Survey office.

Supported meetings reference cuttings handling for UZ-16 and mobilized for start of drilling for UZN-17.

D. Project Planning and Control

Produced Planning and Control System planning products that reflected the CRWMS/M&O integrator inputs to the fiscal year 1992 replanning effort.

Distributed products to CRWMS/M&O, DOE division directors, and Project Work Breakdown Structure Element managers for review. Input additional data and adjustments, combined schedule and budget data, rolled databases, and produced final planning products. The final products were packaged and distributed to the Independent Cost Estimate team, DOE, and participants.

Produced Status Input Sheets for February 1992 performance data and distributed them to participants.

E. 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 (QRB) 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 effort to revise the baseline (repository, ESF, surface facilities, Site Characterization Program Baseline [SCPB]) is beginning based on drawing updates completed by Raytheon Services Nevada (RSN); some drawings are being reworked. Sandia National Laboratories (SNL) again continues to make progress on development of the process to apply to the alluvium (targeted for completion on March 18, 1992). Impact of holding a review meeting on SNL's results on March 24, 1992, is being assessed.

CRWMS/M&O received documentation to begin development of a draft licensing methodology and a Quality Management Procedure (QMP) 06-04 review of SAND89-7024. Status of progress is being determined. Resolution of comments on Administrative Procedure (AP) 6.17Q have been obtained. A final review of the concepts underlining AP 6.17Q was presented to YMP and participants on March 12, 1992. Resolution of comments on QMP 02-10 (draft Q-Grading Procedure) continues.

Management Control (MC) List and Procedure Development

All comments have been received from the QMP 06-04 review of the draft MC List Procedure (AP 5.40), but resolution is pending completion of development of the MC Requirements Plan (Task 314). The identification, extraction, and verification exercise is complete (no verification was conducted) and requirements from 24 of 29 extracted documents have been entered into the Requirements Traceability Network (RTN). Items and keywords from 4 of 16

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documents (out of the 29) have also been entered into RTN. An MC Requirements Plan has been drafted and is being refined. Efforts on AP 5.41 continues being held pending further effort on AP 5.40 and the MC Requirements Plan.

Implementation

Initiation by the participants to develop 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

Limited distribution of Revision 0 of the Management Plan is in progress. Revision 0 of the Interface Memorandum of Understanding, between organizations supporting DIGE, has been completed and distributed. Efforts continue on identification of changes to be incorporated in Revision 1 of the Management Plan.

F. Public Outreach and Institutional Activities

On March 7, 1992, approximately 30 Boy Scouts and 7 leaders attended YMP's second Boy Scouts Atomic Energy Badge Workshop at the Yucca Mountain Information Office (YMIO). YMP personnel James Blink, Effie Harle, Christopher Binzer, Todd Kaish, and Mindy Wadkins, along with additional volunteers from the Nevada Test Site, staffed the radiation display table.

On March 9, 1992, Carl Gertz, Gayle Fisher, and Beatrice Reilly attended a forum in Reno, Nevada, held by the Nevada Nuclear Waste Task Force. Carl Gertz and other interested parties participated on the panel.

Carl Gertz gave a general project overview on March 10, 1992, to the DOE Pressure Safety Conference attendees at Bally's Hotel in Las Vegas, Nevada. Also on March 10, 1992, Joseph Calovini gave a general project overview to five eighth grade classes at Orr Junior High School, Las Vegas, Nevada, and Richard Arnold gave a cultural resources presentation as part of the Green Valley Library Lecture Series.

Two tours were conducted this week. On March 9, 1992, 25 visitors from Monmouth College were escorted to the site by Susan Jones, Russell Dyer, and Max Powell. On March 13, 1992, 45 students from Booker Sixth Grade Center went to Yucca Mountain with Jeanne Cooper and Vicki Best.

On March 11, 1992, Carl Gertz was interviewed on KVBC Channel 3's Senior Report with Gwen Castaldi.

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G. Systems Management and Integration

Geochemistry

No significant new items to report this week.

II. ANALYSIS & VERIFICATION DIVISION

Participated in the Engineered Barrier System (EBS) Performance Assessment Workshop March 10-11, 1992, in Las Vegas, Nevada.

Attended the 41st Advisory Committee on Nuclear Waste meeting March 12-13, 1992, in Bethesda, Maryland. Agenda items of interest included: (1) discussion of the feasibility of applying a systems approach to the analysis of the overall high-level waste program, and (2) discussion of the high-level waste research program plan of NRC and the Center for NRC Research Association.

Completed technical review under AP 1.10Q procedure for SP 8.3.1.2.2.2, Revision 1, Water Movement Tests (review comments due March 15, 1992).

Provided and consolidated OGD comments on the draft General Accounting Office report entitled "NUCLEAR WASTE: DOE's Repository Site Investigations, a Long and Difficult Task."

Developed transmittal memo for overall OGD evaluation of the latest draft skeleton text for the Annotated Outline for the repository license application and provided specific comments on the skeleton text of the Annotated Outline.

Participated in planning meeting with the Office of External Relations to discuss the agenda and transmittal materials for the May 7, 1992, Director's Forum on Early Site Suitability Evaluation on March 10, 1992, in Washington, D.C.

III. GENERAL INFORMATION ITEMS

CRWMS/M&O

Sixteen QA Grading Reports addressing activities tabulated on the Nevada Test Site QA list have been developed in draft form. Of the remaining six activities, four (dealing with EBS test plans and materials evaluations) have been deferred to the next fiscal year, one (dealing with development of quality-affecting software) is undergoing evaluation, and one (dealing with records management) has been submitted to ORB.

YMP

The YMP staff participated in a meeting at HQ to discuss the future of the waste acceptance preliminary specifications and their relationship to "accept waste" functional requirements flowdown.

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Lawrence Livermore National Laboratory (LLNL)

A review and a Change Control Board submission of LLNL's proposed revision to the SCPB in the areas of Near Field Geochemistry and Man-Made Materials has been arranged with the Regulatory & Site Evaluation Division and SAIC staff.

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>			
Wednesday, March 25	Progress Management Meeting	Washington DC	C. Gertz
B. <u>Internal and DOE/NV Meetings</u>			
No significant new items this week.			
C. <u>NRC Interactions</u>			
Tuesday, March 17	Thermal Loads	Albuquerque, NM	T. Bjerstedt
Wednesday, March 18	Air, Vapor Movements Due to Thermal Gradients	Albuquerque, NM	T. Bjerstedt
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

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
C. <u>NRC Interactions (Continued)</u>			
(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>			
Monday, March 16	University of Nevada, Electrical Engineering Honor Society	Reno, NV	C. Gertz
Wednesday, March 18	Lincoln County Impact Alleviation Committee	Caliente, NV	D. Van Natta
Wednesday, March 18	Southern Nevada Floor Covering Association	Las Vegas, NV	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
E. <u>State and Public Interactions</u> (Continued)			
Thursday, March 19	State/Affected County Planning Meeting	Reno, NV	E. Lundgaard R. Robertson D. Foust
Tuesday, March 24	USCEA Fuel Cycle '92 Conference	Charleston, SC	J. Younker
Thursday, March 26	Family Home Hospice	Las Vegas, NV	R. Arnold
Thursday, March 26	Yucca Mountain Lecture Series	YMIO, Beatty, NV	R. Arnold
Tuesday, March 31	Yucca Mountain Lecture Series	YMIO, Las Vegas, NV	R. Arnold
Friday, April 3	California State Univ.: Nuclear Waste	San Jose, CA	M. Blanchard
Saturday, April 4	Girl Scouts Merit Badge Workshop	Las Vegas, NV	E. Harle
Friday, April 10	American Power Dispatchers Association	Las Vegas, NV	C. Gertz
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	
Sunday- Wednesday, April 12-15	International High-Level Radioactive Waste Management Conference	Las Vegas, NV	

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<u>Date</u>	<u>Event</u>	<u>Location</u>
F. <u>Exhibits Scheduled</u> (Continued)		
Saturday, March 28	Public Open House (P)	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>		
Tuesday, March 17	DOE Office of Hearings and Appeals	TBD
Wednesday, March 18	Las Vegas Chamber of Commerce	TBD
Friday, March 20	Chaparral High School	L. Thompson T. Pysto
Wednesday, March 25	Energy Fuels Nuclear	M. Voegele
Saturday, March 28	Public Open House (P)	Various Escorts
Thursday, April 2	DOE Office of Hearings and Appeals	TBD
Friday, April 17	International High-Level Waste Management Conference	K. Beall
Wednesday, April 22	Chaparral High School	TBD
Saturday, April 25	Public Open House (P)	Various Escorts
Monday, May 11	Institute of Shaft Drilling Technology	TBD

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<u>Date</u>	<u>Event</u>	<u>Escorts</u>
G. <u>Tours Scheduled</u> (Continued)		
Thursday, May 28	Public Open House (P)	Various Escorts
Saturday, June 27	Public Open House (P)	Various Escorts

YMP:DLH-2414

Maxwell Blanchard
 Carl P. Gertz
 Project Manager

CC:

H. H. Brandt, HQ (RW-13) FORS
 J. C. Bresee, HQ (RW-10) FORS
 S. J. Brocoum, HQ (RW-22) FORS
 B. A. Cerny, HQ (RW-12) FORS
 M. A. Ferguson, HQ (RW-5) FORS
 Samantha Williams, HQ (TA-3) FORS
 T. H. Isaacs, HQ (RW-4) FORS
 G. P. King, HQ (RW-5.1) FORS
 Eric Knox, HQ (RW-5.1) FORS
 R. A. Milner, HQ (RW-40) FORS
 F. G. Peters, HQ (RW-2) FORS
 Samuel Rousso, HQ (RW-10) FORS
 J. D. Saltzman, HQ (RW-5) FORS
 J. P. Roberts, HQ (RW-30) FORS
 C. M. Smith, HQ (RW-2) FORS
 J. B. Roberts, CH
 Marianne Heiskell, ORO
 J. H. Anttonen, BWI, Richland, WA
 Ron Pope, ORNL, Oak Ridge, TN
~~James Prestholdt, NRS, Las Vegas, NV~~
 Donald Schweitzer, ENL, Upton, NY
 D. T. Oakley, LANL, Washington, DC
 J. A. Docka, Weston, Washington, DC
 R. P. Gamble, Weston, Washington, DC
 J. L. Smith, Occidental, CA
 C. A. Johnson, NWPO, Carson City, NV
 R. R. Loux, NWPO, Carson City, NV



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

WBS 1.2.9.2
 QA: N/A

MAR 25 1992

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

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING
 FEBRUARY 28, 1992

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

A. Site Characterization Planning

Regulatory Interactions

The Regulatory Interaction Branch staff attended the U.S. Department of Energy (DOE) Technical Exchange Meeting with the U.S. Nuclear Regulatory Commission (NRC) on "Waste Form: Spent Nuclear Fuel" in Richland, Washington, on February 25-26, 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 Engineering (28)	Initial Draft (12)	Initial Draft (74)
Through Computer-Aided Draft Design (CADD) (28)	Final Draft (12)	Final Draft (74)
Through Review (28)	Review (12)	Review (74)

The 90 percent ESF review is comprised of 76 drawings, 33 analyses, and 34 specifications. The status is as follows:

<u>Drawings</u>	<u>Analysis</u>	<u>Specifications</u>
Through Engineering (11)	Initial Draft (07)	Initial Draft (02)
Through CADD (02)	Final Draft (00)	Final Draft (00)
Through Review (01)	Review (00)	Review (00)

Site Characterization Plan (SCP) Progress Report (PR)

PR 5 is still in concurrence at DOE Headquarters (HQ). The guidance letter for PR 6 (reporting period October 1, 1991 to March 31, 1992) will go out Monday, March 2, 1992, with input requested by April 6, 1992.

SCP Study Plan (SP) Status

One SP that had not passed screening review is no longer considered to be in review thereby reducing the present total study plans in review from 67 to 66.

SP BREAKDOWN

In Screening Review	0
In YMP and HQ Review	4
Awaiting Comment Resolution Meeting	7
Awaiting Author Revision	11
In YMP/HQ Verification Audit	6
Preparing to Submit or Awaiting YMP Approval	2
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
Received Comments from the State of Nevada	8
Responses Transmitted to the State of Nevada	5
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

During the past week, the Field Operations Center staff provided operational and logistical support to five tours of Yucca Mountain, Nevada.

Work has been completed on the fourth neutron access borehole, UZN-11. The total depth of UZN-11 is 84.4 feet. Reynolds Electrical & Engineering Co., Inc. is in the process of rigging down the CME 550 drill rig in preparation for the next borehole.

During the past week, the Site Manager convened the Field Change Control Board and acted upon eight field change requests. These were for minor changes to several field activities.

The latest revision to the YMP Safety and Health Plan has been signed by YMPO and has been hand-carried to the Office of Civilian Radioactive Waste Management (OCRWM) HQ for signature by the Director, and the Assistant Director of Environmental Safety and Health.

Sample Management Facility

Completed core and cuttings from UZN-37 and processed and shipped 85 specimens. Completed processing core and cuttings from the hole of USN-11.

Prepared requested borehole/SP information for upcoming Sample Overview Committee meeting.

D. Project Planning and Control

Completed an analysis of a project-level cost performance report from October 1, 1991 through January 31, 1992 to, identify significant cost and schedule variances.

E. Quality Assurance Implementation

The Yucca Mountain Quality Assurance Division (YMQAD) efforts have been instrumental in the upcoming transition of the Valley Bank

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Local Records Center to the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O). The transition is scheduled to take place on March 2, 1992. YMQAD involvement included support in the preparation of a transition plan, in providing guidance to project participants, and an expedited review by the program staff to ensure timely issuance of the governing Administrative Procedure (AP) 1.18Q.

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

Raytheon Services Nevada and Sandia National Laboratories (SNL) continue on schedule toward completion of their respective activities. The CRWMS M&O effort to develop the licensing methodology in parallel with technical review of SAND 89-7024 has not begun. Discussions between YMP, CRWMS M&O, and Technical and Management Support Services (T&MSS) are occurring to bring attention and effort to these activities in order to meet the needed March 20, 1992, completion date. YMQAD is working on a resolution of remaining comments from the Quality Management Procedure (QMP) 06-04 review of revised AP 6.17Q. An extension was granted to February 21, 1992, for receipt of comments from the QMP-06-04 review of the draft Q-Grading Procedure (QMP-02-10). Completion of the QMP-06-04 process is now targeted for March 13, 1992.

Master Control (MC) List and Procedure Development

Review and resolution of comments from the QMP-06-04 review of the new MC List Procedure (AP 5.40) continues with a target March 13, 1992, completion date. The requirements identification, extraction and verification activity was completed on February 21, 1992, with the data entry effort to the enhanced Requirements Traceability Network database now occurring. Development of the plan to complete the requirements extraction effort continues, based on information from the requirements extraction exercise and procedure simulation. Development of the MC grading procedure is dependent on resolution of issues being generated from the review of AP 5.40, MC List Procedure. Impacts continue to be assessed.

Implementation

Initiation by the participants to develop their procedures and lists continues to be delayed, driven by delays in completion of AP-6.17Q approval.

Task Management

Efforts to process and issue Revision 0 of the Management Plan are occurring. Revision 1 of the Management Plan, to incorporate input from the workshops, is being processed through a QMP-06-04 review and issuance process.

F. Public Outreach and Institutional Activities

One hundred fifty students from O'Callaghan Junior High School toured the Las Vegas Yucca Mountain Information Office (YMIO) on February 24, 1992. Alan Stephenson escorted the students on a tour of the facility and the Climax Mine exhibit, while Kent Wirtz presented a project overview emphasizing environmental studies.

The Yucca Mountain Lecture Series "Radiation" was presented by Angela Colarusso, Stacey Sorg, Joe Ginanni, and Layton O'Neill at the Las Vegas YMIO on February 25, 1992, and at the Beatty YMIO on February 27, 1992.

A project overview presentation was given by David Stahl, M&O, at the University of Nevada, Las Vegas, on February 25, 1992.

A. C. Robison gave a project overview presentation for the Pahrump Chamber of Commerce, Pahrump, Nevada, on February 26, 1992.

A presentation on the Yucca Mountain Cultural Resources Program was given by Richard Arnold at Greenspun Junior High School, Henderson, Nevada, on February 27, 1992.

Presentations were made by Carl Gertz; Bruce Crowe, Los Alamos National Laboratory; and Bill Dudley, U.S. Geological Survey, at the Nevada Legislature's Committee on High-Level Radioactive Waste meeting held February 27, 1992.

The YMP exhibit was set up and staffed for the Society for Mining and Metallurgy in Phoenix, Arizona, on February 24-27, 1992.

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Tours to Yucca Mountain were conducted on February 25, 1992, for SNL personnel; on February 26, 1992, for Steve Huff, DOE/HQ and the Jewish Community Center; and on February 28, 1992, for 60 guests from OCRWM.

G. Systems Management and Integration

Geochemistry

The Geochemistry Integration Team (GIT) met on February 25, 1992, in Las Vegas, Nevada. The GIT finalized recommendations made at the December 1991 quarterly meeting having to do with the role of geochemistry in performance assessment. In addition, a matrix was presented that correlates geochemical processes with SPs and scientific investigation plans. The GIT also planned the spring quarterly meeting which will be held in conjunction with the Hydrology Integration Task Force.

II. ANALYSIS & VERIFICATION DIVISION

Attended the NRC/DOE technical exchange on spent fuel waste form, in Richland, Washington, February 25, 1992.

Participated in a meeting of the document hierarchy task force on February 27, 1992, in Las Vegas, Nevada.

Participated in DOE management field trip to the Yucca Mountain site to discuss status of surface-based testing activities, February 28, 1992.

Attended the Annual Meeting and Exhibit of the Society for Mining, Metallurgy, and Exploration in Phoenix, Arizona, on February 24-27, 1992.

III. GENERAL INFORMATION ITEMS

YMP

DOE, CRWMS M&O, and technical project officers' staff participated in the Director's workshop on the "Engine of Evolution" on February 24, 1992, in Las Vegas, Nevada.

A Steering Committee meeting was held to present the initiation of the Site Development Plan to comply with DOE Order 4320.1B.

OCRWM Program Manager's meeting was held in Las Vegas, Nevada, on February 26, 1992.

The Project Manager presented the State of the Project briefing for OCRWM Director and Associate Directors at a Program Management Meeting in Las Vegas, Nevada, on February 26, 1992.

YMP project review included briefings from each of the division directors and key branches within the Las Vegas office. A site tour on February 28, 1992, was planned as a part of the project tour.

CRWMS M&O

The Planning and Control System database review and update has been completed and turned over to T&MSS for incorporation.

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>			
Wednesday, March 25	Program Management Meeting	Washington D.C.	C. Gertz
B. <u>Internal and DOE/NV Meetings</u>			
Friday, March 6	TPO Meeting	Las Vegas, NV	C. Gertz
Friday, March 6	Planning and Budget Meeting	Las Vegas, NV	C. Gertz
C. <u>NRC Interactions</u>			
Tuesday, March 17	Thermal Loads	Albuquerque, NM	T. Bjerstedt
Wednesday, March 18	Air, Vapor Movements Due to Thermal Gradients	Albuquerque, NM	T. Bjerstedt
Tuesday- Wednesday, April 28-29	Complimentary Cumulative Distribution Function	Albuquerque, NM	T. Bjerstedt
Tuesday, May 19	Interactions Schedulings	Rockville, MD	T. Bjerstedt

CRWMS M&O

The Planning and Control System database review and update has been completed and turned over to T&MSS for incorporation.

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/BO Meetings</u>			
Wednesday, March 25	Program Management Meeting	Washington, D.C.	C. Gertz
B. <u>Internal and DOE/NV Meetings</u>			
Friday, March 6	TPO Meeting	Las Vegas, NV	C. Gertz
Friday, March 6	Planning and Budget Meeting	Las Vegas, NV	C. Gertz
C. <u>NRC Interactions</u>			
Tuesday, March 17	Thermal Loads	Albuquerque, NM	T. Bjerstedt
Wednesday, March 18	Air, Vapor Movements Due to Thermal Gradients	Albuquerque, NM	T. Bjerstedt
Tuesday- Wednesday, April 28-29	Complimentary Cumulative Distribution Function	Albuquerque, NM	T. Bjerstedt
Tuesday, May 19	Interactions Schedulings	Rockville, MD	T. Bjerstedt

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMFO Contact</u>
C. <u>NRC Interactions</u> (Continued)			
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</u> (P)			
Tuesday- Wednesday, March 10-11	NWTRB T&S Panel	Arlington, VA	A. Simmons
Monday- Friday, April 6-10	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
Thursday- Friday, August 13-14	NWTRB Full Board Meeting	Las Vegas, NV	A. Simmons
Saturday- Sunday, August 15-16	NWTRB Panel on SG&G	Las Vegas, NV	A. Simmons

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
E. <u>State and Public Interactions</u>			
Sunday, March 1	International Public Communications Forum	Tucson, AZ	C. Gertz
Monday, March 2	Waste Management '92 Symposium	Tucson, AZ	C. Gertz B. Reilly
Tuesday, March 3	O'Callaghan Junior High School	Las Vegas, NV	J. Cooper D. Harrison-Giesler K. Beall P. Fransioli T. Doering
Wednesday, March 4	Chamber of Commerce Leadership Program	Las Vegas, NV	G. Fasano
Thursday, March 5	Mineral County Commission	Hawthorne, NV	P. Standish
Friday, March 6	W. E. Ferron Elementary School	Las Vegas, NV	R. Arnold
Saturday, March 7	Boy Scouts Atomic Energy Merit Badge Workshop	Las Vegas, NV	E. Harle
Monday, March 9	Nevada Nuclear Waste Task Force	Reno, NV	C. Gertz
Tuesday, March 10	LLNL/DOE Pressure Safety Conference	Las Vegas, NV	C. Gertz
Tuesday, March 10	Green Valley Library	Henderson, NV	R. Arnold
Monday, March 16	University of Nevada, Electrical Engineering Honor Society	Reno, NV	C. Gertz
Wednesday, March 18	Southern Nevada Floor Covering Association	Las Vegas, NV	C. Gertz
Tuesday, March 24	USCEA Fuel Cycle '92 Conference	Charleston, SC	J. Younker

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
E. <u>State and Public Interactions (Continued)</u>			
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
Saturday, April 4	Girl Scouts Merit Badge Workshop	Las Vegas, NV	E. Harle
Friday, April 10	American Power Dispatchers Association	Las Vegas, NV	C. Gertz
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

F. Exhibits Scheduled

<u>Date</u>	<u>Event</u>	<u>Location</u>
Saturday, February 29	Public Open House (P)	Las Vegas, NV
Sunday- Thursday, March 1-5	Waste Management '92 Symposium	Tucson, AZ
Saturday, March 28	Public Open House (P)	Las Vegas, NV
Saturday, April 25	Public Open House (P)	Las Vegas, NV

<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, February 29	Public Open House (P)	Various Escorts
Friday, March 6	Waste Management '92	TBD
Tuesday, March 10	Monmouth College	S. Jones
Friday, March 13	Booker 6th Grade Center	TBD
Tuesday, March 17	DOE Office of Hearings and Appeals	TBD
Wednesday, March 18	Las Vegas Chamber of Commerce	TBD
Friday, March 20	Chaparral High School	L. Thompson
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
Friday, April 17	International High-Level Waste Management Conference	K. Beall

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
G. <u>Tours Scheduled</u> (Continued)		
Wednesday, April 22	Chaparral High School	TBD
Saturday, April 25	Public Open House (P)	Various Escorts
Monday, May 11	Institute of Shaft Drilling Technology	TBD
Thursday, May 28	Public Open House (P)	Various Escorts
Saturday, June 27	Public Open House (P)	Various Escorts

YMP:DLH-2219


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

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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 March 13, 1992 and March 20, 1992:

1. Field Operations Center, (YMSO)

A. Management and Administration

- a. The Site Manager and FOC staff participated in and provided operational and logistical support to several tours conducted during this period. These were: Monmouth College; Booker 6th Grade and the DOE Office of Hearing and Appeals.
- b. The Site Manager, as Chairman, Field Change Control Board (FCCB), acted upon six (6) new Field Change Requests (FCR's) for some current field activities for JP 92-2 and JP 92-5. These were approved and the FCCB Secretary, processed and made preparations for controlled distribution to the respective participants.
- c. The Site Manager allocated space within the Yucca Mountain Site Office, Building 4015, to the Nuclear Regulatory Commission (NRC), Sandia National Laboratories and U.S. Bureau of Reclamation.
- d. The Site Manager finalized the relocation of the Field Logistics individual working in the FOC from the 3rd Floor, East Wing to the 1st Floor, West Wing. This will afford greater flexibility and control of the logistics requirements to the field participants, i.e., radios, vehicles, etc.
- e. The Site Manager ordered the software package for the establishment of the GIS (Geographic Information System) within the FOC.
- f. Provided operations support for field site characterization activities.

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

- a. Attended monthly Safety Advisory Committee meeting.
- b. Reviewed RW-30 Comments on the YMP Safety and Health Plan.

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- c. Supported ongoing tours.
 - d. Conducted 2 inspections of Midway Valley Test Pits; 2 inspections of UZ-16 drill pad construction; and inspection of Trench-14 and Bldg. 4001 shower room.
 - e. Conducted participant meeting on Midway Valley Test Pits and obtained concurrence on shoring the Pits.
 - f. Drafts of new AP's on Industrial Hygiene, Occupational Medicine, and Safety and health Protection were sent to 06-04 review.
 - g. Attended a 5 year safety and health plan working group meeting in San Francisco. met with RW-30 representatives to discuss overall OCFWM plan.
 - h. Forwarded AP 6.12 on accident recordkeeping to QMP 006-04 review.
 - i. Worked on AP 2.9 revisions.
 - j. Drafted letter for Site Manager on Federal Register distribution of regulatory changes.
 - k. Drafted comments in response to RW-30 comments on the YMP Safety and Health Plan.
 - l. Redrafted AP 5.7, Safety and Health Compliance, in preparation for putting it into WMP 06-04 cycle.
 - m. Posted job notice for Fire Protection Engineer for T&MSS SHCD.
 - n. Completed drills and exercise section for emergency response management plans; this completed SHCD's assignment.
 - o. Conducted 10 inspections; 2 at UZ-16; 1 at Rad Building; 1 at N-17 borehole; 3 at Midway Valley; 3 at Trench 14. Drafted Compliance section for 5 year Safety and Health Plan.
- C. Work Request/Photographic Services Coordination
- a. Provided photographic coverage of the LM300 Drill Rig at subdock featuring the Pipe Handling System for cover of Institutional Publication; and UZ-16 Drill Pad preparation.
 - b. Photo survey analysis needs requesting participants requirements for next two fiscal years was distributed.

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 writing and revising internal procedures.
- d. Survey crew establishing control at existing Drill Hole Sites.
- e. Field Engineering undergoing DOE QA Audit.
- f. Survey group continued supporting construction at UZ-16 Drill Pad, NRG-1 Test Pits and Midway Valley Trenches.
- g. Survey group supported the USGS photogrammetry mapping effort at Trench 14.

B. Quality Control

- a. No report submitted.

3. Sample Management Facility, (SMF/SAIC)

- a. Shipped 24 specimen's from UZN-36 to USGS.
- b. REECO Industrial Hygiene sampled spilled material.
- c. Supported meeting on cuttings handling for UZN-16.
- d. Mobilized for drill start for UZN-17.
- e. Completed UZ N-17 drilling.
- f. Property audit completed on 3/18/92.
- g. QA members performed a surveillance of the SMF for specimen traceability records (YMP-SR-29-004).

4. YMP Hydrologic Research Facility, (USGS)

- a. Normal data retrieval from instrumented holes on Yucca Mountain by saturated zone group.
- b. HRF field technicians conducted neutron logging in the field.
- c. HRF meteorological personnel continued precipitation studies in the Yucca Mountain area.
- d. Pete Striffler is at NTS March 9-20 to oversee sample collection during borehole drilling for neutron holes and to serve as situ USGS representative for coring of neutron holes.
- e. Will Causseaux, Martha Mustard, and Jim Ziemba at NTS 1-20 March to give a class on "How to be Audited."
- f. Jon Woolverton is at the HRF 15-20 March for USGS Audit 92-04.
- g. Douglas Burkhardt at NTS 18-21 March to work on DCP installations.
- h. John Whitney in Las Vegas and at NTS 19-25 March to meet with Jim Brune in Crater Flats to examine balanced rocks and Pat Glancy to examine erosion on Jake's Point.
- i. Jeff Coe and Emily Taylor are at NTS 16-20 March to collect samples and do photogrammetric target studies at Trench 14.
- j. Art Braun and staff doing mapping in Ghost Dance Fault.
- k. Mark McKowen and Bureau of Reclamation staff at Yucca Mountain doing trench pit sample collecting.

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

Activities conducted during week ending March 13, 1992:

A. Drilling

- a. JP 91-9, Neutron Access Boreholes, completed UZN-36. Crews standing by due to weather.
- b. JP 92-1, JF-3 Water Monitoring Well, Pump test completed 3/5, total gallons pumped was 501,090.

B. Logistics

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

C. Constructions

- a. JP 92-2, NRG-1. Excavated 4-Test pits and continued grubbing vegetation from area of new access road and drill pad.
- b. JP 92-4, UZ-16 Drill padContinued to place and compact the Type II fill on the drill pad. Sixteen (16) compactions tests were successfully taken.
- c. JP 92-5, Midway Valley Trenching....Excavated three (3) test pits and five (5) additional trenches.

Activities conducted during week ending March 20, 1992:

A. Drilling

- a. JP 91-9 Neutron Access Borehole UZ N-11, 16 hours stand-by due to wet roads and pad UZ N-17.
- b. March 16 move and rig up on UZ N-17.
- c. JP 92-1 JF-3 Water Monitoring Hole: no activity due to site maintenance electricians working on Weapons Program water wells.
- d. Crew working in Area 25 Subdock.

B. Logistics

- a. Requisitioned needed supplies and materials for continued operation of the Field Operations Center.
- b. Supported two tours of YMP facilities.
- c. Made final arrangements for 28 March Open House Tour of YMP facilities.

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- d. Coordinated and directed the move of the FOC Logistics Department from third to first floor of the FOC Building.

C. Construction

- a. JP 92-2, NRG-1...Excavated 10 testpits and completed grubbing of vegetation and stockpiling of fill.
- b. JP 92-4, UZ-16 Drill Pad...Continued placing fill on pad area and compacted. Obtained final grade elevation and compaction on 3/19. Equipment demobilized and are secured.
- c. JP 92-5, Midway Valley...No activity during this week.

6. Los Alamos National Laboratory, (LANL)

- a. A potential demonstration facility for ESF testing activities and visitors center and Busted Butte is being evaluated.
- b. Tracer, fluid, and material information is requested for all upcoming field activities within the potential repository boundary.
- c. Test planning for the geologic mapping in the Fran Ridge test pits, with construction upgrades, is underway. The activity deployment is planned for late summer of 1992.
- d. Developed TBD log for ESFDR, Appendix B.

7. Document and Records Center, (SAIC)

Activities during week ending March 13, 1992:

- a. Received and issued for controlled distribution:

Field Change Requests

FCR 92/061, "Common Fill Compaction Requirement."

Issued the following for Controlled Distribution:

Specifications

YMP-025-9-SP-06, "Drill Pad for NRG-1 Borehole";

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Drawings

YMP-025-1-CIVL-PL21, YMP-025-1-CIVL-PR21

YMP-025-1-CIVL-GP21, YMP-025-1-CIVL-PR23

Job Packages

- a. JP 92-2, "Soil and Rock Properties North Portal Drill Hole and Surface Facility Test Pits."
- b. Attended FOC Staff Meeting.
- c. Provided overview to SMF personnel regarding submittal of Record Package Segments to DRC.
- d. Provided overview to David Warriner, REECO, and Ella Jackson, TRW regarding DRC activities.
- e. Copies 2,312 pages for YMP staff.
- f. Issued 280 controlled documents.
- g. Reproduced 189 engineering copies.
- h. Issued 19 uncontrolled documents.

Activities during week ending March 20, 1992:

- a. Received and issued for controlled distribution:
 - FCR 92/057, Additional of As-Build Drawing Requirements to JP 92-5, JP 92-2.
 - FCR 92/063, Change CI Numbers to CI.13.4001.
 - FCR 92/064, Job Package 92-2, Change to Add RSN FVP.
 - FCR 92/065, Delete Sketch SK-92-D-FL-01 from JP 92-2.
 - FCR 92/066, Replacement of Draft Work Program in JP 92-2 with Approved Work Program.
- b. YMP Staff Support: copied 1203 pages; issued 281 controlled documents; reproduced 244 engineering copies; issued 13 uncontrolled documents.

Carl P. Gertz

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c. General Activities:

Attended FOC Staff Meeting.

Met with RMD Division Manager to provide status on DRC activities.

Attended AP 1.18Q training at FOC.

8. Field Training

- a. Conducted GET 1.2, 1.3, 1.4 training.
- b. Conducted GET 1.5 examinations for nine persons.
- c. Conducted field radio communications training for 6 people. This training now being "fined tuned" with goal of reducing classroom time to not more than 2.5 hours.

Winfred A. Wilson

Winfred A. Wilson
Site Manager

YMP:WAW-260

cc:

R. M. Cameron, MACTEC/YMSO, M/S 717
M. D. Voegele, SAIC, Las Vegas, NV
R. R. Schneider, SAIC/YMSO, M/S 717
G. K. Beall, SAIC, Las Vegas, NV
J. H. Peck, SAIC, Mercury, NV, M/S 719
C. J. Cotten, SAIC, Las Vegas, NV
G. D. Milligan, SAIC/YMSO, M/S 717
I. R. Cottle, SAIC, 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
R. T. Prestholt, NRC, Las Vegas, NV

bcc:

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