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SUBJECT: Forwards Ofc Geologic Disposal Weekly Highlights for wks ending 920619 & 26 & Yucca Mountain Site Ofc Field Activity Rept.

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

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

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

DATE: July 10, 1992

SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR  
THE WEEKS ENDING JUNE 19 AND JUNE 26, 1992, and THE  
YUCCA MOUNTAIN SITE OFFICE (YMSO) FIELD ACTIVITY REPORT  
FOR THE WEEKS ENDING JUNE 19 AND JUNE 26, 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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## 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

JUN 29 1992

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

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
JUNE 19, 1992

During the week of June 16-19, 1992, three program reviews were conducted from external sources. The first was the Independent Cost Estimating reconciliation of the Yucca Mountain Site Characterization Project's (YMP) cost schedule baseline; second, fiscal year (FY) 1994 budget validation; and third, a task force headed by Barry Gale conducted a program review of YMP's plans to meet 2001 license application date.

A meeting has been scheduled back in Washington, D.C., on June 30, 1992, to present the Independent Cost Estimate results, validation results, and YMP's planned activities and budget for FY 1994. The Barry Gale task force will be providing results to the Secretary of Energy on July 31, 1992.

### I. CRITICAL ITEM STATUS - YMP

#### A. Site Characterization Planning

##### Field Operations

The Site Manager and Field Operations Center staff participated in and provided logistical support for two major tours, including a media tour. Representatives from TV Channels 3, 8, and 10; a columnist from the Las Vegas Review-Journal; and a representative from the Reynolds Electrical & Engineering Co., Inc. (REECO) Public Information Office, were present.

Regarding Job Packages 92-3 and 92-4, the USW UZ-16 borehole was intermittently reamed to a 22-inch diameter from a depth of 42.14 feet to 53.4 feet. Because of additional work required on the dust control system, reaming was hindered. Sixteen-inch diameter surface casing was run in the hole and hung off at 52.25 feet, while a 15.3 cubic foot cement plug was set on the bottom to anchor/seal the casing. Cementing required two stages to bring the cement to surface. The surface casing and borehole had been vacuum drilled to 53.04 feet with a 14-3/4 inch drill bit.

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The twelfth neutron access borehole, UZN-53, was completed on June 15, 1992, and cored to a depth of 234 feet. Borehole USW UZN-53 was cored to a final depth of approximately 234 feet. At a depth of 210 feet, a failed casing shoe prevented casing from being advanced further without pulling the casing, repairing the shoe, and smoothing the hole before reinstallation. The CME-850 drill rig and associated Odex equipment were relocated to NRG-1.

The U.S. Geological Survey (USGS) principal investigator did not want to risk possible loss of the hole, which was already within a few feet of the planned total depth, by removal of the casing; therefore, the last 24 feet of the hole was cored without being cased.

This borehole penetrated approximately 180 feet of Tiva Canyon densely- to moderately-welded tuff and about 40 feet of bedded tuff, before reaching the top of the Topopah Spring welded unit, at about 221 feet.

Drilling on NRG-1 is currently underway with the CME-850 drill rig. The drilling depth was 20.2 feet at close of business Tuesday, June 16, 1992. Satisfactory core is being recovered for development of design data for the design of the north ramp portal excavation.

Regarding excavation of the Midway Valley trenches, the first long trench has been completed to approximately 1100 feet in length. Three additional excavations have been completed: Trench 14-D, modification of Trench 17, and Trench T6. Trench 14-D is located on the Bow Ridge fault, about 100 yards south of existing Trench 14 on the west side of Exile Hill and extends to the top of Exile Hill. Trench 14-D is a box-shaped, shored backhoe trench about ten feet deep, that provides evidence of vertical separation on a fault in Quaternary alluvial fan deposits. Evidence for lateral separation will be evaluated. Trench 17 provides evidence of vertical separation on a strand of the Paintbrush Canyon fault in Quaternary deposits. The raveled trench has been cleaned and deepened to about eight feet, in preparation for detailed mapping. Trench T6 has been excavated on the east side of Exile Hill, approximately 30 feet south of the long trench (Trench T5). Resistant materials limited excavation of Trench T5 to a depth of three feet in this area. Using a jackhammer, a deeper exposure has been provided in Trench T6 over its 50-foot length.

The Site Manager is in the process of getting engineering accomplished for the establishment of the YMP hazardous waste accumulation area. This area will be located in the western portion of the yard behind the Sample Management Facility (SMF).

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SMF

Processing of core from NRG-1 was initiated, while processing of core and cuttings from UZN-53 and UZ-16 were continued. Activities at the UZ-16 drill site were supported. Property inventory of the Drilling Support and Sample Management Department was completed.

Regulatory Interactions

**Issue Resolution.** The drafts of action plans for the Issue Resolution working groups are being finalized. The annotated outline for the Calcite Silica Working Paper is undergoing revision.

**Geochemistry.** A joint meeting of the Geochemistry Integration Team and the Hydrology Integration Task Force was held in Denver, Colorado, June 9-11, 1992. Sixty participants from USGS, Lawrence Livermore National Laboratory (LLNL), Los Alamos National Laboratory (Los Alamos), Lawrence Berkeley Laboratory, Sandia National Laboratories (SNL), Pacific Northwest Laboratory, and contractor organizations attended. Presentations were given on the subject, "Preferential Pathways: Definition and Detection." After extensive discussion, participants divided into working groups that considered questions relevant to preferential pathways in the shallow unsaturated zone, deep unsaturated zone, saturated zone, and all zones under postclosure conditions. The working groups prepared a draft report and recommendations that will be forwarded to the Yucca Mountain Site Characterization Project Office (YMPO) for action. Respondents to a questionnaire distributed at the conclusion of the meeting indicated that the workshop was highly effective in promoting communication among participants, and in focusing more closely on characterization needs for preferential pathways.

Exploratory Studies Facility (ESF) Task Force Activities

The 90 percent design review status is on schedule. In addition to those in the 50 percent review, the 90 percent review is comprised of 80 drawings, 38 analyses, and 52 specifications.

<u>Drawings</u>	<u>Analyses</u>	<u>Specifications</u>
75 Through Engineering	4 Initial Draft	38 Initial Draft
63 Through Computer-Aided Draft Design	14 Final Draft	27 Final Draft
20 Through Review	6 Through Review	13 Through Review

Site Characterization Plan (SCP) Progress Report (PR)

PR 6 was sent to the Office of Civilian Radioactive Waste Management (OCRWM) and the U.S. Department of Energy/Headquarters (DOE/HQ) for concurrence and approval on June 15, 1992. Concurrence and approval for publication are expected by August 14, 1992, in order to meet the distribution goal of September 30, 1992.

SCP Study Plan (SP) Status

No new SPs were approved by YMPO this week.

STUDY PLAN BREAKDOWN

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In Screening Review .....	0
In YMPO and HQ Review .....	0
Awaiting Comment Resolution .....	12
Awaiting Author Revision .....	6
In YMPO/HQ Verification Audit .....	8
Preparing to Submit or Awaiting YMPO Approval .....	3
Awaiting Submission to the U.S. Nuclear Regulatory Commission (NRC) .....	2
NRC Phase 1 Review .....	13
NRC Acceptance .....	26
Total .....	70

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Total = 70

SCP/SP Status:

Total SPs Assigned to Cover 106 Studies .....	103
SPs Not Yet Submitted for Review .....	39
SPs Submitted for Initial Review .....	64
Revised SPs Submitted for Review .....	6
Total SPs Submitted for Review .....	70

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State of Nevada Comments Status:

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

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NRC Comments Status:

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

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JUN 29 1992

B. Project Planning and Control

The Planning and Control System (PACS) status cost/schedule data for May 1992, was received from the participants. Cost Performance Reports, Work Breakdown Structure, and Planning and Scheduling Account Reports were produced and distributed to the participants. Participant data was combined in the central PACS project-level database and Project Cost Performance Reports for fiscal year (FY) 1992 through May 1992, were produced.

Mission 2001 planning data was received from the participants and the data was uploaded to central participant databases. Planning documents were produced on accounts that had been changed, and the documents were distributed to the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O).

C. Quality Assurance Implementation

Determination of Importance and Grading Enhancement (DIGE)

Continuation of Existing Process

YMPO direction to participants is being developed, relative to the transition process, including the new Revision 1 of Administrative Procedure (AP) 6.17Q and cancellation of AP 5.28.

Quality (Q) List and Q-List Procedure Development

Based on meetings at SNL on June 16, 1992, SNL is on schedule in their Items Important to Waste Isolation and Items Important to Safety activities. The draft licensing methodology document YMP/92-7 is in the Quality Management Procedure (QMP) 06-04 review cycle. Revision 6 of the Site Characterization Program Baseline is in the signature cycle.

Resolution to comments on proposed QMP 02-10 (grading procedure) will be closed out. The replacement procedure (QMP 05-03), relative to procedure application guidance, will be submitted for the QMP-06-04 process. Training preparations for AP 6.17Q are targeted for completion this week for use in training of new Assessment Team (AT) members. Training preparations for the new QMP 05-03 are on hold.

Management Control (MC) List and Procedure Development

The MC List Plan and presentation material were completed. The material will be transmitted to YMPO early next week. With a new staff assignment, emphasis will be placed on completing comment resolution to the proposed AP 5.40 (MC List Procedure). Work on proposed AP 5.41 (MC Grading Procedure) and training preparations for both AP 5.40 and AP 5.41 are on hold.

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Implementation

Establishment of the new AT continues, with emphasis on the process of selecting AT members. Technical Direction Letters to SNL and Raytheon Services Nevada are being prepared, which request submittal of the implementing procedures for review and approval by YMPO.

Task Management

Comments have been received and resolved on the QMP 06-04 review of Revision 1 of the DIGE Management Plan.

D. Public Outreach and Institutional Activities

Dr. Don Williams, Professor of Chemistry at Hope College in Holland, Michigan, gave a three-hour presentation on nuclear energy at the Nevada Science Project Teacher Workshop on June 15, 1992.

A tour to Yucca Mountain (YM), Nevada, was conducted on June 16, 1992, for ten guests of the media. Carl Gertz, Project Manager, gave a project overview presentation at the Field Operations Center. On June 18, 1992, a tour to YM was provided for 17 members of the Science Applications International Corporation (SAIC) Training Department.

Carl Gertz gave a general project overview at the Nevada Republican Women's Club in Lake Tahoe, Nevada, on June 18, 1992.

An educational presentation was given by Richard Arnold (Technical and Management Support Services [T&MSS]) for the YMCA's summer camp on June 16, 1992. Approximately 150 children, ages 6 to 12, attended.

Institutional and External Affairs (IEA) staff attended the Secretary of Energy Advisory Board meeting, which was held in Richland, Washington, on June 16, 1992.

Final arrangements were made by IEA staff for the Churchill and Lander County, Nevada, representatives to tour the Waste Isolation Pilot Plant in Carlsbad, New Mexico, on June 23, 1992.

On June 17, 1992, 20 teachers who attended the REECo Partners in Education Workshop visited the Las Vegas Yucca Mountain Information Office (YMIO). Effie Harle (T&MSS) gave a guided tour of the YMIO; Richard Arnold gave a presentation on Native American culture; and Paul Standish (T&MSS) gave a presentation on transportation of spent fuel.

JUN 29 1992

A. C. Robison (YMP) provided a general project overview to the National Association of Industrial and Office Properties on June 18, 1992. Approximately 80 people attended the overview, which emphasized the kinds of economic, growth, and financial benefits that YM will bring to the Las Vegas, Nevada, area. He also gave presentations to members of the Independent Cost Estimate review team, regarding FY 1994 Project Review/Validation; and the Chamber of Commerce Executive Board, regarding the YMP ongoing state of affairs.

## II. ANALYSIS & VERIFICATION DIVISION

The Advisory Committee on Nuclear Waste (ACNW) working group meeting, regarding the Early Site Suitability Evaluation (ESSE) report, was participated in on June 17, 1992, in Bethesda, Maryland. Presentations to the ACNW included views of the State of Nevada, and NRC's review plan for the ESSE and potential comments of the NRC staff.

A workshop of Convergence Activity task groups was participated in on June 19, 1992, in Denver, Colorado. Draft proposals from Topical Task groups prior to their finalization were discussed. These proposals will be the basis for development of a Repository Program Convergence Plan.

Draft RW-20 comments were consolidated and completed. The staff participated in a meeting with General Accounting Office (GAO) representatives on the final GAO report, "NUCLEAR WASTE: DOE's Repository Site Investigations, a Long and Difficult Task," on June 17, 1992, in Washington, D.C.

On June 16, 1992, the staff participated in a dry run of presentations given by Washington-based participants in preparation for a meeting with the Nuclear Waste Technical Review Board (NWTB) July 7-8, 1992.

Attended a meeting of NRC staff, Nuclear Management Resources Council, and industry representatives on June 17, 1992, in Rockville, Maryland. Industry-recommended alternatives to the draft proposed revision of Appendix A of 10 CFR Part 100 were discussed.

## III. GENERAL INFORMATION ITEMS

### CRWMS M&O

PACS input in support of the Mission 2001 Plan for the surface facilities has been completed.

### YMP

A task was initiated to determine the duration of the heater tests required to meet Mission 2001 Plan objectives.

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T&MSS

Comment resolution was completed for the Electrical Power Conceptual Design Report and provided to the Architect/Engineer for incorporation.

SNL

A Performance Assessment Evaluation for approximately ten major items in ESF Package 1A was initiated. A Performance Assessment Impact for neutron holes to be used to examine surface water infiltration was also initiated.

Los Alamos

The staff attended the Geochemistry Integration Team meeting in Denver, Colorado. Several of the presentations on fracture mineralogy had implications for transport and paleohydrology.

LLNL

Calculations were performed to evaluate retardation under different fracture-matrix flow conditions. For matrix-dominated flow, retardation is essentially the result of chemical processes (e.g., sorption). For fracture-dominated flow conditions, retardation would be a result of either advection into the matrix by imbibition processes or from molecular diffusion into the matrix. Molecular diffusion is a relatively slow process and, therefore, would dominate only under limited conditions. However, diffusion is the only process for transporting radionuclides from the matrix into a "clean" pulse of water in fracture dominated flow.

The retardation processes can be effectively utilized in design options, which will enhance the isolation of waste and prevent any migration out of the Engineered Barrier System area.

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 Theresa Hirsch at (702) 794-7759 for additional information. Exhibits are handled by Kevin Rohrer at (702) 794-7769, and tours are handled by Carleen Hill at (702) 794-7375.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
A. <u>DOE/HQ Meetings</u>			
Wednesday, July 1	OCRWM/CRWMS M&O Manager's Meeting	Washington, DC	C. Gertz

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>B. <u>CRWMS M&amp;O/DOE Meetings</u></b>			
Thursday, June 25	OCRWM M&O Management Review	Vienna, VA	C. Gertz
<b>C. <u>Internal and DOE/NV Meetings</u></b>			
Thursday- Friday, June 25-26	Leadership Seminar	Las Vegas, NV	M. Blanchard
<b>D. <u>NRC Interactions</u></b>			
Tuesday, June 23	Technical Exchange - Midway Valley	Las Vegas, NV	T. Bjerstedt
Wednesday, July 22	Technical Exchange - Three-Bucket Approach	Rockville, MD	T. Bjerstedt
Thursday, July 23	Agreement on Format and Content of Yucca Mountain SPs	Rockville, MD	T. Bjerstedt
Tuesday, August 25	Technical Exchange - Resolution of Volcanism Related Concerns	Video- Conference	T. Bjerstedt
September (Tentative)	Technical Exchange - Midway Valley	LV/NTS/YM	T. Bjerstedt
Tuesday, September 29	Technical Exchange - Functional Analysis of 10 CFR 60	San Antonio, TX	T. Bjerstedt
Wednesday, October 28	Technical Exchange - Total System Performance Assessment	Albuquerque, NM	T. Bjerstedt
Tuesday, November 17	Technical Exchange - Volcanism	Rockville, MD	T. Bjerstedt
Wednesday, November 18	Interaction Planning Meeting	Rockville, MD	T. Bjerstedt

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>E. <u>NWTRB Interactions (P)</u></b>			
Tuesday- Wednesday, July 7-8	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>
<b>F. <u>State and Public Interactions</u></b>			
Monday, June 22	Partners in Education Workshop	Las Vegas, NV	J. Cooper
Thursday, June 25	Yucca Mountain Lecture Series (P)	Pahrump, NV	J. Younker
Tuesday, June 30	Yucca Mountain Lecture Series (P)	Las Vegas, NV	J. Younker
Tuesday, July 7	University of California	Santa Barbara, CA	S. Mattson
Thursday, July 16	Town Forum White Pine County	White Pine, NV	A. Robison
Friday, July 24	California Capistrano Unified School District	Las Vegas, NV	A. Gil
Tuesday, July 28	Yucca Mountain Lecture Series (P)	Las Vegas, NV	A. Flint
Tuesday, July 28	Nevada Department of Transportation	Sparks, NV	P. Standish
Thursday, July 30	Yucca Mountain Lecture Series (P)	Beatty, NV	A. Flint
Wednesday, August 5	UNLV Alumni Center	Las Vegas, NV	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
<b>F. <u>State and Public Interactions</u> (Continued)</b>			
Thursday, August 6	Rotary Club of Las Vegas	Las Vegas, NV	C. Gertz
Monday, August 31	Nuclear Information and Records Management Association Symposium	San Francisco, CA	C. Gertz
Thursday, September 17	American Nuclear Society	Lynchburg, VA	C. Gertz
Monday, September 21	Emerging Technologies for Hazardous Waste Management	Atlanta, GA	C. Gertz
Tuesday, September 29	American Institute of Professional Geologists	Lake Tahoe, NV	J. Younker
Wednesday, October 7	North American Tunneling Conference	Boston, MA	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>
<b>G. <u>Exhibits Scheduled</u></b>		
Saturday, June 27	Public Open House (P)	Las Vegas, NV
Friday, July 17	Public Open House (P)	Las Vegas, NV
Tuesday- Wednesday, July 28-29	Department of Transportation Railroad Safety Meeting	Sparks, NV
Wednesday- Sunday, August 12-16	Nevada State Fair	Reno, NV
Thursday- Saturday, August 20-22	Nevada League of Cities	Winnemucca, NV
Saturday, August 22	Public Open House (P)	Las Vegas, NV

<u>Date</u>	<u>Event</u>	<u>Location</u>
<b>G. Exhibits Scheduled (Continued)</b>		
Friday-Sunday, September 18-20	Home Show	Las Vegas, NV
Friday-Sunday, September 18-20	Pahrump Harvest Festival	Pahrump, NV
Saturday, September 26	Public Open House (P)	Las Vegas, NV
Sunday-Wednesday, September 27-30	American Institute of Professional Geologists	Lake Tahoe, NV
<u>Date</u>	<u>Event</u>	<u>Escorts</u>
<b>H. Tours Scheduled</b>		
Thursday, June 25	Lessons Program	J. Blink
Saturday, June 27	Public Open House (P)	Various Escorts
Tuesday, June 30	SAIC Technical Advisory Committee	K. Beall M. Voegele
Wednesday, July 8	University of Georgia	TBD
Friday, July 10	UNLV Summer Camp	TBD
Monday, July 13	French Utility Officials	R. Gonzales
Friday, July 17	Public Open House (P)	Various Escorts
Friday, July 31	British Government Officials	TBD
Saturday, August 22	Public Open House (P)	Various Escorts

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
H. <u>Tours Scheduled</u> (Continued)		
Saturday, September 26	Public Open House (P)	Various Escorts
Saturday, October 17	Public Open House (P)	Various Escorts

*For*   
Carl P. Gertz  
Project Manager

YMP:VFI-4037

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## Department of Energy

Yucca Mountain Site Characterization

Project Office

P. O. Box 98608

Las Vegas, NV 89193-8608

WBS 1.2.9.2

QA: N/A

JUL 0 2 1992

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

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
JUNE 26, 1992

A Leadership Seminar was held in Las Vegas, Nevada, for Division Directors, Technical Project Officers, and Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O), June 25-26, 1992.

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

A. Site Characterization Planning

Field Operations

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

Regarding Job Package (JP) 92-3, UZ-16 Drilling, Reynolds Electrical & Engineering Co., Inc. (REECO), the contractor, has cored to a depth of 98 feet. They reamed the hole to 85 feet, as of June 23, 1992.

A Stop Work Order was issued by the Project Manager on June 23, 1992, because of health, safety, and environmental concerns, that resulted from fugitive dust emissions. Test drilling continued, while equipment was modified to reduce dust emissions. The borehole, UZ-16, is approximately 110 feet deep.

Midway Valley trenches (JP 92-5), Trench 17, Trench 6, and Trench 5A (the long trench) have been completed. No Quaternary faulting is evident in either Trench 6 or Trench 5A.

JUL 02 1992

Sample Management Facility

Drilling and recovery of core and cuttings from NRG-1 were completed. Recovery of core from UZ-16 continued. Thirty-two core specimens were removed from UZN-55 for the U.S. Geological Survey (USGS). Cuttings from UZ-1 were received from USGS.

Site Investigations

Regarding JP 92-2, Soil and Rock Properties, 20 test pits (part of Phase I) have been backfilled, following collection of all required data. Drillhole NRG-1 was completed to a depth of 150.12 feet on June 23, 1992. The drill rig is in the process of being demobilized.

Regarding Midway Valley, ten soil test pits were excavated to support preparation of the final surficial geologic map. Geologists began mapping the recently completed trenches.

Exploratory Studies Facility (ESF) Task Force Activities

The 90 percent design review status is on schedule. In addition to those in the 50 percent review, the 90 percent review is comprised of 80 drawings, 38 analyses, and 52 specifications.

<u>Drawings</u>	<u>Analyses</u>	<u>Specifications</u>
66 Through Engineering	35 Initial Draft	25 Initial Draft
55 Through Computer-Aided Draft Design	5 Final Draft	17 Final Draft
12 Through Review	0 Through Review	8 Through Review

Site Characterization Plan (SCP) Progress Report (PR)

Preliminary comments from the programmatic and policy review of PR 6 were received by the Yucca Mountain Site Characterization Project Office (YMPO), and are being incorporated by CRWMS M&O. The U.S. Department of Energy/Headquarters (DOE/HQ) is performing a concurrence review of PR 6. The Office of Scientific and Technical Information is printing PR 5.

SCP Study Plan (SP) Status

No new SPs were approved by YMPO this week. SP 8.3.1.4.2.1, "Characterization of Vertical and Lateral Distribution of Stratigraphic Units within the Site Area," was submitted to the U.S. Nuclear Regulatory Commission (NRC). SP 8.3.1.17.3.4, "Effects of Local Site Geology on Surface and Subsurface Motions," completed the Phase I review, and was accepted by the NRC.

STUDY PLAN BREAKDOWN

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In Screening Review .....	0
In YMPO and HQ Review .....	0
Awaiting Comment Resolution .....	12
Awaiting Author Revision .....	6
In YMPO/HQ Verification Audit .....	8
Preparing to Submit or Awaiting YMPO Approval .....	3
Awaiting Submission to NRC .....	1
NRC Phase 1 Review .....	13
NRC Acceptance .....	27
Total .....	70

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SCP/SP Status:

Total SPs Assigned to Cover 106 Studies .....	103
SPs Not Yet Submitted for Review .....	39
SPs Submitted for Initial Review .....	64
Revised SPs Submitted for Review .....	6
Total SPs Submitted for Review .....	70

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State of Nevada Comments Status:

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

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NRC Comments Status:

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

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B. Quality Assurance (QA) Implementation

A surveillance of the Office of Civilian Radioactive Waste Management (OCRWM) interim baseline was conducted on June 22-24, 1992, at YMPO. This surveillance evaluated the flowdown of top level requirements from the Waste Management System Requirements document into the YMP's technical baseline. An exit interview was held on June 24, 1992, to discuss the findings of the surveillance. The findings may result in two Corrective Action Requests (CARs); one for a problem regarding HQ distribution of controlled documents, and the other involving the inability to trace some requirements not affecting safety or waste isolation to the appropriate project-level requirements documents. It was not clear whether the requirements were inadvertently omitted or considered and not included.

JUL 02 1992

An audit of the Raytheon Services Nevada (RSN) design effort for Package 1A was conducted during the week of June 22-26, 1992. The audit team was composed of members from NRC, State of Nevada, DOE/HQ, Yucca Mountain Quality Assurance Division, and Science Applications International Corporation. The findings were RSN's QA program was considered effective by the lead auditor. The follow up will have some recommendations made, and CARs issued on five items are expected.

#### Determination of Importance and Grading Enhancement

##### Continuation of Existing Process

YMPO direction to participants, contained in the letter Gertz to Distribution dated June 18, 1992, relative to the transition process (the new Revision 1 of Administrative Procedure [AP] 6.17Q and cancellation of AP 5.28), was issued.

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

Revision 6 of the Site Characterization Program Baseline was issued.

Training preparations for AP 6.17Q are targeted for completion this week for use in training of new Assessment Team members.

##### Management Control (MC) List and Procedure Development

The MC List Plan and presentation material were completed and transmitted to YMPO.

#### C. Public Outreach and Institutional Activities

As part of the REECo Partners in Education Teacher Workshop, Jeanne Cooper and April Gil (YMPO) gave a presentation about geology to approximately 15-20 Clark County Independent School District teachers at John C. Fremont Junior High School on June 22, 1992. With this presentation, YMP volunteers will have contributed eight hours of REECo's 16-hour teacher workshop.

Lawrence Livermore National Laboratory (LLNL) and YMP are conducting an intensive, hands-on, two-week short course for Nye County, Nevada, teachers (kindergarten through 8th grade) at the Nevada Test Site. This program is a partnership approach among the technical, educational, and business communities to improve the quality and enthusiasm of science education in elementary and middle schools. The course includes instruction in four disciplines: physics, chemistry, biology, and electricity and magnetism. Each teacher receives a large binder with complete lesson plans, and a large desk-sized box of all equipment and supplies needed for several years of teaching. The Nye County workshop is being conducted by LLNL scientists. YMP scientists, who attended a previous LLNL training workshop, will observe the Nye County course. These YMP scientists will conduct the Clark County, Nevada, workshop, which is scheduled for August 3-13, 1992.

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Beatrice Reilly (Technical and Management Support Services [T&MSS]) gave a presentation regarding institutional and external affairs to members of the Taiwan Power Company in Las Vegas, Nevada, on June 24, 1992.

A. C. Robison (YMPO) gave a general overview presentation to Delmar Dahl, a candidate for the Republican seat on the U.S. Senate, and Eric Fenster, his Administrative Assistant, on June 24, 1992.

Paul Standish (T&MSS) provided a general overview presentation, which emphasized transportation, to the Palo Verde Joint Committee in Scottsdale, Arizona, on June 24, 1992. Approximately 70 people attended.

Max Powell (YMPO) provided a general overview presentation to the Humanities Discussion Group at the Dula Senior Center on June 25, 1992. The average age of the audience was 65-90 years; and most of the attendees were retired school teachers.

The Yucca Mountain Lecture Series, "Geology of Southern Nevada," was presented by April Gil in Pahrump, Nevada, on June 25, 1992.

## II. ANALYSIS & VERIFICATION DIVISION

The staff participated in a DOE Seismic Working Group meeting on the use of probabilistic seismic hazard curves on June 23, 1992, in Germantown, Maryland. The meeting was a follow-on to the review of the Working Group's draft of a proposed DOE-wide position on use of the LLNL and Electric Power Research Institute probabilistic hazard curves at DOE sites.

Briefings by John Bartlett (Director of OCRWM), Carl Gertz (Project Manager), and John Roberts (Acting Assistant Director, Systems & Compliance) to the NRC Commissioners were attended on June 24, 1992, in Rockville, Maryland.

From June 22-25, 1992, staff participated in surveillance of requirements flowdown for documents used in ESF design, in Las Vegas, Nevada.

## III. GENERAL INFORMATION ITEMS

### CRWMS M&O

All reviewer comments have been resolved, regarding the Semi-Annual Progress Report Procedure revision, which was received from the standards and procedures organization. The procedure is scheduled for issuance this week. Reviewed 12 Quality Administrative Procedures from CRWMS M&O Headquarters, for which a CAR had been written. These

procedures had been released without proper reviews. Ground rules and an annotated outline format for preparation of the Advanced Conceptual Design Work Plan for the repository and waste package were prepared. The ground rules were approved, and the annotated outline format was discussed with CRWMS M&O for comments.

#### LLNL

Repository scale thermal calculations to address the temperature profiles throughout the repository, as a function of time out to 10,000 years, were initiated. A 3D model is used for the free field, and a 2D model is used to evaluate temperature profiles in the waste package.

#### Los Alamos National Laboratory

The Volcanic Staff began trenching at the Cima Volcanic Field, specifically the Cima "A" cone.

#### 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 Theresa Hirsch at (702) 794-7759 for additional information. Exhibits are handled by Kevin Rohrer at (702) 794-7769, and tours are handled by Carleen Hill at (702) 794-7375.

	<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
A.	<u>DOE/HQ Meetings</u>			
	Wednesday, July 1	OCRWM/CRWMS M&O Manager's Meeting	Washington, DC	C. Gertz
	Wednesday, July 22	OCRWM Biweekly Seminar	Washington, DC	C. Gertz
B.	<u>CRWMS M&amp;O/DOE Meetings</u>			
	Wednesday, July 15	Program Management Review	Vienna, VA	C. Gertz
C.	<u>Internal and DOE/NV Meetings</u>			
	Wednesday July 15	NV Managers Program Review	Las Vegas, NV	C. Gertz
D.	<u>NRC Interactions</u>			
	Wednesday, July 22	Technical Exchange - Three-Bucket Approach	Rockville, MD	T. Bjerstedt

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>D. <u>NRC Interactions</u> (Continued)</b>			
Thursday, July 23	Agreement on Format and Content of Yucca Mountain SPs	Rockville, MD	T. Bjerstedt
Tuesday, August 25	Technical Exchange - Resolution of Volcanism-Related Concerns	Video- Conference	T. Bjerstedt
September (Tentative)	Technical Exchange - Midway Valley	LV/NTS/YM	T. Bjerstedt
Tuesday, September 29	Technical Exchange - Functional Analysis of 10 CFR 60	San Antonio, TX	T. Bjerstedt
Wednesday, October 28	Technical Exchange - Total System Performance Assessment	Albuquerque, NM	T. Bjerstedt
Tuesday, November 17	Technical Exchange - Volcanism	Rockville, MD	T. Bjerstedt
Wednesday, November 18	Interaction Planning Meeting	Rockville, MD	T. Bjerstedt

**E. NWTRB Interactions (P)**

Tuesday- Wednesday, July 7-8	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>
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**F. State and Public Interactions**

Tuesday, June 30	Yucca Mountain Lecture Series (P)	Las Vegas, NV	J. Younker
Tuesday, July 7	University of California	Santa Barbara, CA	S. Mattson

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
<b>F. <u>State and Public Interactions</u> (Continued)</b>			
Thursday, July 16	Town Forum White Pine County	White Pine, NV	A. Robison
Friday, July 24	California Capistrano Unified School District	Las Vegas, NV	A. Gil
Tuesday, July 28	Yucca Mountain Lecture Series (P)	Las Vegas, NV	A. Flint
Tuesday, July 28	Nevada Department of Transportation	Sparks, NV	P. Standish
Thursday, July 30	Yucca Mountain Lecture Series (P)	Beatty, NV	A. Flint
Wednesday, August 5	UNLV Alumni Center	Las Vegas, NV	C. Gertz
Thursday, August 6	Rotary Club of Las Vegas	Las Vegas, NV	C. Gertz
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, September 21	Emerging Technologies for Hazardous Waste Management	Atlanta, GA	C. Gertz
Tuesday, September 29	American Institute of Professional Geologists	Lake Tahoe, NV	J. Younker
Wednesday, October 7	North American Tunneling Conference	Boston, MA	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>
<b>G. <u>Exhibits Scheduled</u></b>		
Saturday, June 27	Public Open House (P)	Las Vegas, NV
Friday, July 17	Public Open House (P)	Las Vegas, NV

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<u>Date</u>	<u>Event</u>	<u>Location</u>
G. <u>Exhibits Scheduled</u> (Continued)		
Tuesday- Wednesday, July 28-29	Department of Transportation Railroad Safety Meeting	Sparks, NV
Wednesday- Sunday, August 12-16	Nevada State Fair	Reno, NV
Thursday- Saturday, August 20-22	Nevada League of Cities	Winnemucca, NV
Saturday, August 22	Public Open House (P)	Las Vegas, NV
Friday- Sunday, September 18-20	Home Show	Las Vegas, NV
Friday- Sunday, September 18-20	Pahrump Harvest Festival	Pahrump, NV
Saturday, September 26	Public Open House (P)	Las Vegas, NV
Sunday- Wednesday, September 27-30	American Institute of Professional Geologists	Lake Tahoe, NV

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
H. <u>Tours Scheduled</u>		
Saturday, June 27	Public Open House (P)	Various Escorts
Tuesday, June 30	SAIC Technical Advisory Committee	K. Beall M. Voegele
Wednesday, July 8	University of Georgia	TBD
Friday, July 10	UNLV Summer Camp	TBD

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<u>Date</u>	<u>Event</u>	<u>Escorts</u>
H. <u>Tours Scheduled</u> (Continued)		
Monday, July 13	French Utility Officials	R. Gonzales
Friday, July 17	Public Open House (P)	Various Escorts
Friday, July 31	British Government Officials	TBD
Saturday, August 22	Public Open House (P)	Various Escorts
Saturday, September 26	Public Open House (P)	Various Escorts
Saturday, October 17	Public Open House (P)	Various Escorts

YMP:VFI-4171

  
Carl P. Gertz  
Project Manager



**Department of Energy**  
Yucca Mountain Site Characterization  
Project Office  
P. O. Box 98608  
Las Vegas, NV 89193-8608  
**JUL 02 1992**

WBS 1.2.7.4  
QA: N/A

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 June 19, 1992 and June 26, 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: The media outing; SAIC/Project Training Coordinators and the General Public Open House and Site Tour.
- b. Site Manager pursuant to discussions with DOE/POCD and SAIC personnel has initiated action for RSN to site adapt drawings received from Area 5, Low Level Waste Area, for use as the YMP Hazardous Waste Accumulation Area in Area 25.
- c. AP-6.22Q was issued with an effective date of June 12th. It is planned to implement the procedure on UZ-16 and subsequent job packages.
- d. During this period, the Site Manager submitted the response to CAR. YM-92-038 and CAR YM-92-040.
- e. The Site Manager initiated action through REECo Contracts Administrations Department for putting on an additional contract bus for Area 25 users, commencing July 1, 1992.
- f. Site Manager tasked certain FOC staff personnel to look into submitting a probable scheme for YMP RV Park, somewhere on the RANCH as well as the cost for set-up and rental rate for some "modular" metal buildings that could possible be used for housing and/or feeding accommodations.
- g. Site Manager participated in the Leadership Seminar on June 25-26 at the Alexis Park Hotel.
- h. Provided operations support for field site characterization activities.

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- i. Members of the Field Operations function played a major role in the Budget validation and ICE Team efforts here at the Project Office for WBS 1.2.7xx during the week of June 15.
- j. Continued in the planning methodology for providing the required operational and medical staffing to support the 16 hour drilling program, in particular the "swing shift", which is anticipated to occur sometime in July.
- k. Site Manager received a very detailed Road Repair Recommendations Scenario from the DOE/YMP Safety & Health Specialist, W. R. Tunnell, which depicted the deficiencies of Lathrop Wells Road, Road H and Second Street.

B. Work Request/Photographic Services Coordination

- a. Continued to provide these support services for the Project field participants and the on-going field activities.

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

- a. Supported on going tours.
- b. Conducted surveillances at Midway Valley Trench (1); FOC (1); UZ-16 (2); NRG-1 (1); SMF Bldg (1); and Loader in Area 6 (1).
- c. Conducted meeting with PI's and Field Safety staff concerning inspection and operation of Midway Valley Trenches.
- d. Held meeting with Road and Traffic Enhancement Committee and toured Ranch area determining road closures or restrictions.
- e. Informed Dick McDonald, TRW, that any JP's done in their shop have to be reviewed by SHCD in draft stage for safety requirements.
- f. Reviewed the WBS interim dictionary marking places that have S&H requirements outside 1.2.13.2.
- g. Held meeting with REECo safety representative on response to finding on frontend loader.
- h. Review and delivered comments on "USGS Plan" for introducing explosives on YMP for seismic work. Also, drafted memo to site manager on getting RSN started on design of explosive magazines.

- i. Completed Hazard Communications checklist and made arrangements with USGS for appraisal work.
  - j. Inspected SMF saw ventilation system and provided recommendations.
  - k. Received the "Request for Proposal" no. 1-DH-92, and amendment 1 for the Technical Support and Underground excavation for Exploratory Studies Facility.
  - l. Supported on going tours.
  - m. Conducted surveillances at Midway Valley (2) and UZ-16 (4).
  - n. Conducted meeting with REECO, SHCD staff, and DOE on dust control and monitoring at UZ-16.
  - o. Completed comment resolution on AP 6.12, "Recordkeeping" and comment response on AP 5.7, "Compliance Inspection" and returned them to Plans and Procedures.
  - p. Completed paperwork for speaker and room rental for Safety Awareness Day.
  - q. Provided comments on OCRWM 5 year Safety & Health.
  - r. Creating protocol to perform functional appraisals on participant respiratory protection programs.
  - s. Set up database for Non-Conformance Program.
  - t. Drafted comments on Hazardous Materials Management and Handling Plan.
  - u. Worked on ventilation design for SMF cut-off saws at SMF lab and wrote report on the problem.
  - v. Worked on IH sampling at UZ-16.
2. Raytheon Services Nevada, (RSN)
- 1. Field Support
    - a. Survey crew continued work on Area 25 control net.
    - b. The Field Engineering Group checks the trench walls on a daily bases in order to determine suitability for continued operations.

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- c. The Field Engineering Group supporting UZ-16 with Drilling Engineering on site.
- d. Survey crew establishing control at existing Drill Hole sites.
- e. Survey crew supporting UZ-16, Midway Valley Trenches, and Phase II of the Test Pits.
- f. Field Engineering Group submitted records packages on completed projects Midway Valley Trenches, Trench 14 and Well J-3.
- g. RSN supporting Phase II Trenching effort with on site soils engineers and construction monitoring.
- h. Survey obtained topographic information on proposed Hazardous Materials Storage Area.

2. Quality Control

- a. Monitoring activities on UZ-16 borehole site. Dust collector experiencing problems.
- b. Monitored activities on NRG-1, CME 850 Drill Rig.
- c. Monitored excavation on Test Pits MNV-TP-7; MNV-TP-8; MNV-TP-9; and MNV-TP-10.
- d. Issued 2 NCR's on LM-300, a) Gas chromatograph and hand held detector failed to operate properly; and b) 2 Barton chart recorders failed to operate properly.
- e. Monitored activities on backfill of Test Pits 3,4,5,6,9,10,11, 12,14,20,21,22,23, and 27. Monitored activities on Midway Valley Trenches 6 and 7.

3. Sample Management Facility, (SMF/SAIC)

- a. Continued supporting UZ-16 activities at Drill Site.
- b. Continued processing core and cuttings from UZN-53 and UZ-16.
- c. NRG-1 drilling initiated on 6/15. Began processing core from NRG-1.
- d. Completed property inventory of Drilling Support and Sample Management Department.
- e. Continued recovery of core from UZ-16.

- f. Completed drilling and recovery from NRG-1.
- g. Removed 32 specimens from UZN-55 for USGS.
- h. Received cuttings from UZ-1 from USGS.

4. YMP Hydrologic Research Facility, (USGS)

- a. Normal data retrieval from instrumented holes on Yucca Mountain by Saturated Zone Group.
- b. Field personnel conducting neutron logging in the field.
- c. Meteorological Project collecting satellite data, precipitation data and synoptic scale weather chart information.
- d. Bob Dickerson, USGS/SAIC working at Yucca Mountain doing mapping.
- e. Chris Menges, John Wesling and Bert Swain working in Midway Valley and Yucca Wash Area.
- f. Gordon Ratray at NTS for monitoring tracer gas injection during drilling at UZ-16.
- g. Patrick Tucci at NTS for Field Orientation and Training.
- h. John Whitney and staff in field on Midway Valley Trenching activities.
- i. Don Lippert and staff, Lawrence Berkeley, doing seismic studies at C-hole Complex.

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

Activities conducted during week ending June 19, 1992:

1. Drilling

- a. JP 91-9, Neutron Access Boreholes, CME-850, UZN-53, cored to 234.47 feet. Reamed and cased to 209.59 feet, lost casing shoe. Completed N53, 6/13.
- b. JP 92-2, UE-25, NRG-1, CME 850, moved in rig, spudded 6/15. Drove core to 8.07 feet, cored to 45.10 feet; reamed and cased to 30.62 feet.

- c. JP 92-3, UZ-16, LM-300, ran second and third stages of 16 inch cement job, cemented to surface. Cleaned out cement from inside casing, cored to 65.95 feet, reamed to 59.02 feet.

2. Logistics

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

3. Construction

- a. JP 92-2, NRG-1 Soil and Test Pits...REECO backfilled 18 Test Pits.
- b. JP 92-5, Midway Valley Trenches... Completed excavating Trench 17, 6 and 5A. Also the jackhammering on bedrock exposure in Trench 5A was completed.

Activities conducted during week ending June 26, 1992:

1. Drilling

- a. JP 92-2, UE-25 NRG-1, cored and drove odex to 85.00 feet, cored to total depth of 150.12 feet; layed down tools, pulled 5 1/2 inch casing up to 10 feet; Cal sealed and capped. Moved tools and equipment to Area 25 Subdock.
- b. JP 92-3, UZ-16, LM-300, cored and reamed to 98.67 feet; worked on vacuum separator and water pumps to control dust. EPA taking dust samples.

2. Logistics

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

3. Construction

- a. JP 92-5, Midway Valley Trenches and Test Pits...REECO completed excavation of eleven (11) new Test Pits.

6. Los Alamos National Laboratory, (LANL)

- a. Participating in activity to evaluate thermal testing concepts and regulatory criteria. Recommendations to YMP scheduled for early July 1992.

7. Document and Records Center, (SAIC)

Activities during week ending June 19, 1992:

- a. Received and issued or controlled distribution:

\*\*\*OBSOLETE\*\*\*

FCR 92/070, "Job Package 92-2, Change to add RSN FVP."

- b. Attended FOC staff meeting.
- c. Provided overview Training Coordinator's regarding DRC activities.
- d. Met with Dee Moulder, Controlled Document Center (REECo) regarding their controlled documents.
- e. Completed reviewing and correcting FOC site Controlled Documents.
- f. Met with Terry Grant, SAIC, regarding submittal of records package segments, and PA-6.22Q.
- g. Inventoried impacted documents with new generated report (Change Paper Impact-Reference Report).
- h. Met with REECo Drilling Department regarding submittal of Record Package segments.
- i. Updated CDIS training materials for DRC staff.
- j. Copies 5, 771 pages for YMP staff.
- k. Issued 81 controlled documents.
- l. Reproduced 30 engineering copies.
- m. Issued 6 uncontrolled documents.
- n. Received 5 completed record packages from SMF.

Activities during week ending June 26, 1992:

a. Received and issued for controlled distribution:

JP 92-5, Rev. 1, "Midway Valley Excavations; Phase I and II."

FCR 92/091, "YMP-025-9-SP02, YMP/JP92-5; Revised Compaction Requirement for Test Pit Backfill."

\*\*\*OBSOLETE\*\*\*

Note: the following FCR's have been incorporated within the latest revision of the Job Package and are now obsolete. FCR 92/048, FCR 92/057; FCR 92/058; FCR 92/059; FCR 92/071; FCR 92/080; FCR 92/083; and FCR 92/084.

- b. Attended FOC staff meeting.
- c. Completed updating CDIS training materials for DRC staff.
- d. Generated Job Package Reference List for DRC staff.
- e. Attended Field Testing Support 2 year plan meeting.
- f. Copies 2,767 pages for YMP staff.
- g. Issued 14 controlled documents.
- h. Reproduced 26 engineering copies.
- i. Issued 6 uncontrolled documents.
- j. Received 9 completed record packages from SMF.

8. Field Training

- a. No report submitted.

*Winfred A. Wilson*

Winfred A. Wilson  
Site Manager