



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

A DCC

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TO: John J. Linehan, Director, HLPD, Division of High-Level  
Waste Management, M/S 4 H 3

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

DATE: December 7, 1990

SUBJECT: YUCCA MOUNTAIN PROJECT WEEKLY HIGHLIGHTS

Please find enclosed the above-referenced report for the  
weeks ending November 26, November 23, and November 30, 1990.  
There is nothing of any particular significance in these reports.

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cc w/encs.: King Stablein, M/S 4 H 3  
Harold R. Denton, M/S 17 F 2  
Dean Kunihiro, Region 5

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Department of Energy  
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Las Vegas, NV 89193-8608

WBS 1.2.9  
QA: N/A

DEC 05 1990

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

OFFICE OF GEOLOGIC DISPOSAL WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
NOVEMBER 30, 1990

I. CRITICAL ITEM STATUS - YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT

A. Site Characterization Planning

Midway Valley Trenching

Revision 2.05 of the Midway Valley/Calcite-Silica Activities time-phased Logic Network shows +2 days float for the initiation of trenching in January 1991. The critical path includes the development of Safety and Health Field Operating Instructions and establishment of Safety and Health facilities.

The "Technical Requirements for the Yucca Mountain Project (Midway Valley and Calcite-Silica Activities)," Revision 2, has been baselined by the Change Control Board (CCB). This was the remedial action taken to correct a finding from the recent Quality Assurance (QA) Audit of the Yucca Mountain Site Characterization Project Office (Project Office).

Raytheon Services Nevada has completed 90 percent of the final preparation of drawings and specifications for Midway Valley Trenches in Area A' and all of the soils analysis for Midway Valley Trench 14.

A Management Review of the final drawings and specifications for Trenches in Area A' has been initiated.

Site Characterization Plan (SCP) Progress Report

The initial draft of the third semiannual "Progress Report on Site Characterization at Yucca Mountain, Nevada," (SPR 3), is currently undergoing U.S. Department of Energy/Headquarters (DOE/HQ) and project review. A portion of the Project Office review comments was received on November 26, 1990, and is being incorporated into the revised draft. All input from reviewers is expected by December 6, 1990.

SCP Comments

The Project Office anticipates handling recommendations made in the Nuclear Waste Technical Review Board's (NWTB) Second Report to the U.S. Congress as comments on the SCP. Project Office staff will undertake response development according to the same process used to address SCP comments from other agencies. A three-day Integration Group (IG) meeting was held this week in Las Vegas, Nevada, to begin response development for the State of Nevada's September 1989 comment package on the SCP (consisting of 1,917 comments).

SCP Study Plan Status

The Project Office received DOE/HQ comments for Priority Level 3 Study Plan 8.3.1.14.2.1-3, "Soil and Rock Properties of Potential Locations of Surface Facilities."

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STUDY PLAN BREAKDOWN

In Revision After Screening Review . . . . .	1
In Project Office and HQ Review . . . . .	16
Awaiting Comment Resolution Meeting . . . . .	8
Awaiting Author Revision . . . . .	7
In Project Office/HQ Verification Audit. . . . .	6
Verification Complete-Awaiting HQ Sign-off . . . . .	5
Approved and Awaiting Transmittal to U.S. Nuclear Regulatory Commission . . . . .	3
NRC Acceptance Review . . . . .	10
NRC Acceptance . . . . .	4
Total . . . . .	60

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Exploratory Shaft Facility (ESF) Alternatives and Calico Hills Risk Benefit Assessment

The initial ranking of ESF options has been determined and a sensitivity analysis on the ranked options has commenced.

Testing Prioritization Task

Conducted an Assessment Panel meeting November 28-29, 1990, in Las Vegas, Nevada. The meeting was held to evaluate combinations of tests and the accuracy of these tests related to the top-ranked Potentially Adverse Conditions that have been evaluated in other meetings.

Received CCB approval to change Level 1 milestones to coincide with the October 19, 1990, direction letter received from the Project Office.

B. Environmental and Transportation Programs

Environmental Field Programs

Work continues on coordinating preparation of the National Park Service (NPS) monitoring program with the U.S. Geological Survey and the Project Office. The plan should be approved by NPS in early December 1990.

Transportation

An internal technical review on the rail spur design was conducted on November 27, 1990. The objective was to receive comments on the outline for the rail spur design report.

Environmental Compliance and Permitting

The application and fees for the proposed Yucca Mountain air quality surface disturbance and underground injection control permits were returned to the Project Office by the State of Nevada, Division of Environmental Protection.

Several proposed site characterization activities were reviewed for environmental and land access compliance.

C. Field Operations

The Site Manager and the Field Operations staff are preparing for deployment of the initial increment of light-duty vehicles from the Nevada Test Site Fleet Operations Department next week to the Yucca Mountain Site Office (YMSO), Area 25, for near-term Motor Pool staging in readiness mode for Midway Valley/Calcite-Silica.

Field work activities continue on the work at Station UE-25C 1 and 3 in support to Job Package 90-1, Borehole Remedial Work.

The computer programming for an incremental number of the new portable, hand-held radios has been completed. These are being assigned to the YMSO for distribution to the respective project participants in readiness for Midway Valley/Calcite-Silica preparation.

**D. Project Planning and Control**

Completed the closeout of the fiscal year (FY) 1990 Planning & Control System (PACS) accounts and database. This test data will be removed from the active PACS files and moved to an inactive status. The active PACS database will then focus on the FY 1991 Performance Measurement Baseline (PMB).

A letter was prepared to advise participants to continue reporting performance data to both the existing reporting system and PACS for the period October 1990-January 1991. This will allow for appropriate reporting to continue until the FY 1991 PMB is baselined. Beginning in February 1991, PACS will be the only Project Office reporting and control system.

**E. QA Implementation**

Conducted a surveillance at Lawrence Livermore National Laboratory (LLNL) the week of November 26-29, 1990. Criteria 10, 11, 13, and 15 were reviewed. The surveillance team also completed a verification effort for all outstanding LLNL standard deficiency reports.

The Project Office QA Managers' Meeting was held on Friday, November 30, 1990, in Las Vegas, Nevada, to discuss the status of the QA Program (Quality Assurance Requirements Document and Quality Assurance Program Description) and other major program issues.

**F. Major Oversight Group Meetings**

No major oversight group meetings were held this week.

**G. Public Outreach Activities**

Follow-up activities from the Nevada Association of Counties exhibit and the Yucca Mountain Site Characterization Project update meetings were conducted.

**H. Near Term Decision Plan**

No significant change in milestone status from last Program Management Meeting.

**II. ANALYSIS & VERIFICATION DIVISION**

Participated in IG review/preparation of draft responses to the State of Nevada's comments on the SCP at an IG meeting November 27-29, 1990, in Las Vegas, Nevada. Identified comments that have existing responses, which are adequate, that need to be revised and for which new responses must be written.

John W. Bartlett

-5-

Participated in Functional Analysis of the Programmatic System and attended the Site Suitability Core Group Planning Meeting in Richland, Washington, November 27-30, 1990.

Reviewed the draft of "Progress Report on the Site Characterization Program for the Nevada Yucca Mountain Site," for the reporting period April 1, 1990-September 30, 1990.

### III. SIGNIFICANT ACCOMPLISHMENTS/INFORMATION ITEMS

The Project Manager participated in presentations at the Program Management Meeting held in Washington, D.C., on November 28, 1990.

The Project Manager attended John Bartlett's Senior Topical Meeting in Washington, D.C., on November 29, 1990.

The NWTRB held a press conference on November 21, 1990, in Las Vegas, Nevada, to discuss the NWTRB's Second Report to the U.S. Congress. A summary report regarding the conference was prepared and distributed to DOE/HQ.

The Yucca Mountain SCP, Chapters 1-7, has been baselined for historical purposes only by the CCB. Chapter 8 was also baselined and will be updated periodically as conditions warrant.

The third of four courses sponsored by the Project Office Systems Engineering Branch entitled "Principles of Systems Engineering," was conducted November 26-29, 1990.

### IV. UPCOMING EVENTS CALENDAR

Please note that the usage of "(P)" in the calendar indicates that the event is open to the public.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>A. <u>DOE/HQ Meetings</u></b>			
Thursday, December 20	High-Level Waste Glass Briefing for Dr. John Matuszek	Washington, DC	M. Cloninger, Project Office
Wednesday, January 30	Program Management Meeting	Washington, DC	C. Gertz, Project Office

John W. Bartlett

-6-

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>B. <u>Internal Project and DOE/NV Meetings</u></b>			
Friday, December 7	State of the Project	Denver, CO	C. Gertz, Project Office
Thursday, January 10	Planning & Budget Meeting	Las Vegas, NV	C. Gertz, Project Office
Friday, January 11	TPO Meeting	Las Vegas, NV	C. Gertz, Project Office
<b>C. <u>State and Public Interactions (P)</u></b>			
Monday, December 3	Pat Diskin Elementary School	Las Vegas, NV	A. Robison, Project Office
Tuesday, December 4	Nevada History Class at UNLV	Las Vegas, NV	C. Gertz, Project Office
Thursday, December 6	Moapa Valley High School Government Class	Overton, NV	A. Robison, Project Office
Thursday, December 6	Arizona Statewide Meeting of ANS Student Chapters	Tucson, AZ	C. Gertz, Project Office
Wednesday, January 9, 1991	Daughters of the American Revolution	Las Vegas, NV	C. Gertz, Project Office
<b>D. <u>NRC Interactions</u></b>			
Thursday, December 13	Interactions Scheduling Meeting	Rockville, MD	A. Simmons, Project Office
<b>E. <u>NWTRB Interactions</u></b>			
Tuesday- Thursday, January 15-17, 1991	NWTRB Full Board Meeting	Washington, DC	A. Simmons, Project Office

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMFO Contact</u>
<b>E. <u>NWTRB Interactions (continued)</u></b>			
Tuesday- Thursday, April 16-18, 1991	NWTRB Full Board Meeting	Reno, NV	A. Simmons, Project Office
Tuesday- Thursday, July 16-18, 1991	NWTRB Full Board Meeting	Arlington, VA	A. Simmons, Project Office
Tuesday- Thursday, October 8-10, 1991	NWTRB Full Board Meeting	TED	A. Simmons, Project Office

YMP:DLH-1034

for Maxwell Blanchard  
 Carl P. Gertz, Project Manager  
 Yucca Mountain Site Characterization  
 Project Office



**Department of Energy**

Yucca Mountain Project Office

P. O. Box 98608

Las Vegas, NV 89193-8608

WBS 1.2.9

QA: N/A

NOV 28 1990

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

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
NOVEMBER 23, 1990

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

**A. Site Characterization Planning**

**Midway Valley Trenching**

Revision 2.04 of the Midway Valley/Calcite-Silica Activities time-phased Logic Network shows +2 days float for the January 1991 start of trenching. Critical path activities include development of the Safety and Health Field Operating Instructions, establishment of project Safety and Health Activities, and Hazardous Materials Review and Training.

Comments from the Yucca Mountain Site Manager on Job Package 91-1, "Midway Valley," were received and incorporated in another draft of the Job Package being circulated for outline concurrence by the Division Directors.

A final draft of the Readiness Review checklist is in preparation.

The Yucca Mountain Site Characterization Project Office (Project Office) management, regulatory, technical, and quality assurance (QA) review of the "Technical Requirements for the Yucca Mountain Project (Midway Valley and Calcite-Silica Activities)," Revision 1, is complete. This document has been submitted to the Change Control Board for evaluation and subsequent baselining.

**Site Characterization Plan (SCP) Progress Report (PR)**

The OGD will authorize printing of 6,000 copies of the "Progress Report on Site Characterization, Yucca Mountain, Nevada," (No. 4, reporting period: April 1, 1990 - September 30, 1990). All comments on the draft of this PR are due to OGD/Project Office by December 6, 1990.

NOV 28 1990

Consideration of comments received after this date is not planned. Distribution of PR 4 is anticipated for the end of January 1991, assuming that signature authority for release of the document is delegated from S-1 to RW-1.

PR 3 (reporting period: October 1, 1989 - March 31, 1990) is still in U.S. Department of Energy/Headquarters (DOE/HQ) concurrence. Printing and distribution of PR 3 is unlikely to take place before the end of calendar year 1990.

The third semiannual "Progress Report on Site Characterization at Yucca Mountain, Nevada," (SPR 3) is currently undergoing DOE/HQ and project review. Revised input was received from Sandia National Laboratories on November 19, 1990, and is being incorporated into the revised draft. All other input from reviewers is expected by December 6, 1990.

#### SCP Comments

A relational database (Comment and Response Status) sort of past comments by the State of Nevada on the SCP/Consultation Draft is 50 percent complete. The results of this exercise will be used to aid preparation of responses for the State of Nevada's comments on the statutory SCP. An Integration Group meeting is scheduled for November 27-29, 1990, in Las Vegas, Nevada, to begin preparation and review of draft responses for this large package (1,917 comments).

#### SCP Study Plan Status:

The Project Office received DOE/HQ comments for Priority Level 3 Study Plan 8.3.1.2.2.8, "Fluid Flow in Unsaturated, Fractured Rock."

The Project Office transmitted the Project Office and DOE/HQ comments for Priority Level 3 Study Plan 8.3.1.2.3.2, "Characterization of the Saturated Zone Hydrochemistry," to the author for review.

A comment resolution meeting has been planned for Priority Level 2 Study Plan 8.3.1.4.2.2 (Activities 3 & 5), "Characterization of Structural Features within the Site Area," on December 11, 1990, in Denver, Colorado.

**STUDY PLAN BREAKDOWN**

In Revision After Screening Review . . . . .	1
In Project Office and HQ Review . . . . .	16
Awaiting Comment Resolution Meeting . . . . .	8
Awaiting Author Revision . . . . .	7
In Project Office/HQ Verification Audit. . . . .	6
Verification Complete-Awaiting HQ Sign-off . . . . .	5
Approved and Awaiting Transmittal to U.S. Nuclear Regulatory Commission . . . . .	3
NRC Acceptance Review . . . . .	10
NRC Acceptance . . . . .	4
Total . . . . .	60

**Exploratory Shaft Facility (ESF) Alternatives and Calico Hills Risk Benefit Assessment**

**Scoring Activities**

	<u>Number Completed</u>	<u>Total</u>
Influence Diagrams	20	20
Scoring Activities	680	680

Scoring Activities: Completed

**Testing Prioritization Task (TPT)**

Made arrangements and developed the agenda for the Assessment Panel Meeting, November 28-29, 1990, in Las Vegas, Nevada. The meeting is to evaluate combinations of tests and the accuracy of these tests related to the top ranked Potentially Adverse Conditions that have been evaluated in other meetings.

Revised the TPT schedule.

B. Environmental and Transportation Programs

Environmental Field Programs

The Gold Star audit of the Technical and Management Support Services (T&MSS) air quality, meteorological, and radiological programs was successfully completed.

Approval was received from the Advisory Council on Historic Preservation for the Research Design covering archaeological studies.

Transportation

T&MSS staff attended the Nevada Association of Counties meeting in Mesquite, Nevada. Contacts were made with county officials that will be used in developing ideas for shared use of the rail access spur in the coming months.

Environmental Compliance and Permitting

On November 14, 1990, Project Office representatives met with the National Park Service (NPS) to review the latest draft of the groundwater monitoring plan. Once the NPS agrees to the plan, they will withdraw their protest of the project's water appropriation permit application. An agreement was reached on each issue during the meeting. The plan will be revised and returned to the NPS for final approval in early December 1990.

C. Field Operations

Los Alamos National Laboratories' staff attended Engineering, Safety, and Health training at the Field Operations Center.

Field engineering furnished Science Applications International Corporation with a sketch and cost estimate for electric service modifications for new environmental shelter.

Fire rated storage cabinets were installed for inspection, project engineering, and survey records.

The Field Operations group presented preliminary prototype drill site locations at Yucca Mountain to Project Office staff.

An inventory of the G-Tunnel prototype core was completed on November 20, 1990. A final report is being generated.

**D. Project Planning and Control**

Completed internal quality review of the Planning and Control System (PACS) database to identify missing or incomplete data. Discrepancies will be forwarded to participants for resolution. The objective is to enhance Fiscal Year 1991 Performance Measurement Baseline accuracy and validity.

The Long Range Plan/Integrated Project Schedule integration was completed on November 21, 1990. The schedule is now ready for critical path analysis and integration with the budgeting system of PACS.

**E. QA Implementation**

The Closeout Meeting for the T&MSS Audit was held on November 19, 1990. The audit team identified a total of five Corrective Action Requests conditions.

**F. Major Oversight Group Meetings**

A DOE/Nuclear Waste Technical Review Board (NWTBR) Technical Exchange (TE) was held in Denver, Colorado, on November 19-20, 1990, to present the status and preliminary results of the scoring activities of the ESF Alternatives Study.

Project Office and T&MSS staff attended the NWTBR Transportation Panel public hearing in Reno, Nevada, on November 19, 1990. Comments were made to the NWTBR concerning the Office of Civilian Radioactive Waste Management transportation program by local governments, the railroad industry, Edison Electric Institute, and the general public.

**G. Public Outreach Activities**

The Project Manager and staff participated at the Public Update Meeting on November 20, 1990, in Henderson, Nevada. The meeting was non-controversial and very informal. There were more than 130 people in attendance. Press reports were positive.

**H. Near Term Decision Plan**

No significant change in milestone status from last Program Management Meeting.

**II. ANALYSIS & VERIFICATION DIVISION**

Continued support to the functional analysis requirements research, Requirements Research Action Team.

Participated in management elicitation of judgment for ESF Alternatives scoring on November 18-19, 1990, in Denver, Colorado.

Provided input to draft presentation for John Bartlett to the U.S. Nuclear Regulatory Commission (NRC), scheduled for December 18, 1990.

### III. SIGNIFICANT ACCOMPLISHMENTS/INFORMATION ITEMS

No significant accomplishments were reported this week.

### IV. UPCOMING EVENTS CALENDAR

Please note that the usage of "(P)" in the calendar indicates that the event is open to the public.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>A. <u>DOE/BQ Meetings</u></b>			
Wednesday, November 28	Program Management Meeting	Washington, DC	C. Gertz, Project Office
Thursday, November 29	Senior Management Meeting	Washington, DC	C. Gertz, Project Office
<b>B. <u>Internal Project and DOE/NV meetings</u></b>			
Monday, November 26	Planning & Budget Meeting	Las Vegas, NV	C. Gertz, Project Office
Tuesday, November 27	TPO Meeting	Las Vegas, NV	C. Gertz, Project Office
<b>C. <u>State and Public Interactions (P)</u></b>			
Tuesday, December 4	Nevada History Class at UNLV	Las Vegas, NV	C. Gertz, Project Office
Thursday, December 6	Arizona State-wide Meeting of ANS Student Chapters	Tucson, AZ	C. Gertz, Project Office

NOV 28 1990

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>C. <u>State and Public Interactions (continued) (P)</u></b>			
Wednesday, January 9, 1991	Daughters of the American Revolution	Las Vegas, NV	C. Gertz, Project Office
<b>D. <u>NRC Interactions</u></b>			
Wednesday- Thursday, November 28-29	TE on Performance Assessment	Albuquerque, NM	A. Simmons, Project Office
Thursday, December 13	Interactions Schedul- ing Meeting	Rockville, MD	A. Simmons, Project Office
<b>E. <u>NWTRB Interactions</u></b>			
Tuesday- Thursday, January 15-17, 1991	NWTRB Full Board Meeting	Washington, DC	A. Simmons, Project Office
Tuesday- Thursday, April 16-18, 1991	NWTRB Full Board Meeting	Reno, NV	A. Simmons, Project Office
Tuesday- Thursday, July 16-18, 1991	NWTRB Full Board Meeting	Arlington, VA	A. Simmons, Project Office
Tuesday- Thursday, October 8-10, 1991	NWTRB Full Board Meeting	TBD	A. Simmons, Project Office

YMP:DLH-949

for Maxwell B Blanchard  
 Carl P. Gertz, Project Manager  
 Yucca Mountain Site Characterization  
 Project Office



## Department of Energy

Yucca Mountain Project Office

P. O. Box 98608

Las Vegas, NV 89193-8608

WBS 1.2.9

QA: N/A

NOV 20 1990

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

OFFICE OF GEOLOGIC DISPOSAL WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
NOVEMBER 16, 1990

### I. CRITICAL ITEM STATUS - YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT

#### A. Site Characterization Planning

##### Midway Valley Trenching

Revision 2.03 of the Midway Valley/Calcite-Silica time-phased Logic Network shows 0 days float for the January 1991 initiation of field activities. The critical path now includes Hazardous Materials input from participants as described in Administrative Procedure-6.13 and Hazardous Material Review and Training. A second near-critical path includes the development of the Safety and Health Field Operating Instructions and establishment of Safety and Health facilities.

The Readiness Review Notice for Midway Valley activities has been issued and the Readiness Review Board (RRB) and the Readiness Review Team (RRT) have been selected. The checklist is being prepared by the RRT for submission to the RRB.

The Yucca Mountain Site Characterization Project Office's (Project Office) management, regulatory, technical, and quality assurance (QA) review of the "Technical Requirements for the Yucca Mountain Project (Midway Valley/Calcite-Silica Activities)," Revision 1, is in process with over 95 percent of the comments resolved. No changes to the in-process design have been identified.

##### Site Characterization Plan (SCP) Progress Report (PR)

A draft PR was sent out for review to project participants, Project Office, Office of Civilian Radioactive Waste Management (OCRWM), and other U.S. Department of Energy/Headquarters (DOE/HQ) offices. Comments on the draft are due to Project Office staff by December 6, 1990. Consideration of comments later than this date is not planned.

SCP Comments

Recommended changes and edits from DOE/HQ comments on draft responses to the seven comment packages now in review were discussed at the Program Review Group (PRG) Meeting in Las Vegas, Nevada, on November 8, 1990. Representatives from RW-20, RW-30, and the Office of Chief Counsel, Nevada Operations Office, attended (additional edits are expected from the U.S. Office of General Counsel [OGC]). Four draft responses have been forwarded to the Project Manager for a decision, and recommended PRG edits are being incorporated into the responses.

SCP Study Plan Status:

A revised draft of Priority Level 1 Study Plan 8.3.1.2.1.1, "Characterization of Meteorology for Regional Hydrology and Meteorological Monitoring," was completed and sent to the reviewers for verification.

The Project Office received DOE/HQ comments for Priority Level 3 Study Plan 8.3.1.2.3.2, "Characterization of Saturated Zone Hydrochemistry;" Priority Level 3 Study Plan 8.3.1.4.2.1, "Characterization of Vertical and Lateral Distribution of Stratigraphic Units in the Site Area;" and Priority Level 3 Study Plan 8.3.1.17.4.5, "Detachment Faults at or Proximal to Yucca Mountain."

The Project Office completed verification of comment responses for Priority Level 1 Study Plan 8.3.1.2.2.6, "Characterization of Gas Phase Movement in the Unsaturated Zone."

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STUDY PLAN BREAKDOWN

In Revision After Screening Review . . . . .	1
In Project Office and HQ Review . . . . .	16
Awaiting Comment Resolution Meeting . . . . .	8
Awaiting Author Revision . . . . .	7
In Project Office/HQ Verification Audit. . . . .	6
Verification Complete-Awaiting HQ Sign-off . . . . .	5
Approved and Awaiting Transmittal to U.S. Nuclear Regulatory Commission (NRC). . . . .	2
NRC Acceptance Review . . . . .	10
NRC Acceptance . . . . .	4
Total . . . . .	59

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Exploratory Shaft Facility (ESF) Alternatives and Calico Hills Risk Benefit Assessment (CHRBA)

Calico Hills Review Board

The Multi-attribute Utility Analysis (MUA) narrative document was transmitted from Technical & Management Support Services (T&MSS) to the decision analyst for use in setting up the analysis.

Upcoming MUA activities include the following:

- o Pilot study scheduled for the first week in December 1990
- o Working group meeting scheduled for the second and third weeks in December 1990
- o Completion of MUA draft report on January 15, 1991

Technical direction for performance assessment support of the CHRBA was transmitted to the Golder Association and Pacific Northwest Laboratories (PNL), and it was discussed in a teleconference November 12, 1990. A series of five topics have been identified to evaluate the quality of key assumptions which have been made in the CHRBA. It is unclear whether all five can be done with the time and funding available, but the topics have been prioritized. PNL is to prepare and submit statements of work to the Project Office for a high-priority set and a low-priority set of analyses. Work is scheduled to begin as soon as possible.

In response to inquiries from the Nuclear Waste Technical Review Board (NWTB), a quantitative analysis of saturated zone transport has been initiated.

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Scoring Activities

	<u>Number Completed</u>	<u>Total</u>
Influence Diagrams	20	20
Scoring Activities	646	680

Scoring Activities: 95% Complete

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NOV 20 1990

Testing Prioritization Task (TPT)

A presentation on Test Prioritization Methodology was given at the workshop on developing methodology for early site-suitability evaluations held in Albuquerque, New Mexico, on November 15-16, 1990.

A response was made to comments on the Quality Assurance Grading Report for the TPT activity.

B. Environmental and Transportation Programs

Environmental Field Programs

A disturbance monitoring study was designed for site characterization effects.

Data analysis was started on site selection for plant succession studies.

Archaeological pre-activity surveys for existing seismic stations were completed.

Archaeological pre-activity surveys for proposed surface water monitoring stations and proposed simulations study locations were completed.

Transportation

Staff members from the Project Office and T&MSS attended a reception at the University of Nevada, Las Vegas, Nevada (UNLV), on November 6, 1990. The purpose of the reception was to announce the new Department Head of the UNLV Transportation Research Center.

Environmental Compliance and Permitting

The groundwater monitoring plan for the National Park Service (NPS) was revised in preparation for the upcoming meeting. Project representatives will meet with the NPS on November 14, 1990, to review the plan. Once the plan is approved by NPS, the NPS is expected to withdraw their protest of the Yucca Mountain Project water appropriation permit application.

C. Field Operations

The field activity is underway for Job Package 90-1, "Borehole Remedial Work." Reynolds Electrical & Engineering Co., Inc., mobilized the Class III drill rig and crew on site during the week of November 12, 1990.

NOV 20 1990

The Site Manager and the Field Operations support staff are reviewing and commenting on the Midway Valley/Calcite-Silica Job Package.

Based on the November 6, 1990, award date, Lang Exploratory Drilling, Inc., has confirmed delivery of the LM-300 pipe handling system by March 6, 1991.

D. Project Planning and Control

Actions were initiated to close out the Planning and Control System (PACS) Fiscal Year (FY) 1990 summary accounts and divide FY 1990 multi-year summary accounts into FY 1990 and subsequent years. The FY 1990 data will be available for reference, but the PACS performance measurement and schedule integration will focus on the FY 1991 performance measurement baseline.

E. QA Implementation

The audit of Science Application International Corporation was initiated on November 13, 1990, with a tentative closeout meeting scheduled for November 19, 1990.

Consolidated Audit and Surveillance Schedules were issued November 13, 1990, for OCFWM.

The project procedure review continues.

The QA review of the Midway Valley Technical Requirements Document to address deficiencies in the initial review process for the document continued.

Corrective Action Reports resulting from the DOE Qualification Audit conducted October 15-26, 1990, were issued November 9, 1990, to OCFWM and the Project Office.

F. Major Oversight Group Meetings

No oversight group meetings this week.

G. Public Outreach Activities

Staff handled logistics, prepared presentation materials, and finalized room arrangements with the Henderson Convention Center for the Yucca Mountain Project Public Update Meeting on November 20, 1990.

Staff attended the Nuclear Energy Forum held November 11-15, 1990, in Washington, D.C. Staff provided support to DOE/HQ OCRWM staff in preparing a presentation for the American Nuclear Society to be presented at the Forum.

Personnel staffed the Yucca Mountain Project table-top exhibit at the National Congress of American Indians Meeting held November 11-14, 1990, in Albuquerque, New Mexico.

Personnel staffed the Yucca Mountain Project table-top exhibit at the Nevada Association of Counties Annual Conference held November 14-16, 1990, in Mesquite, Nevada.

#### H. Near Term Decision Plan

No significant change in milestone status from last Program Management Meeting.

### II. ANALYSIS & VERIFICATION DIVISION

A text of the Second Site Characterization Progress Report was revised in response to concurrence comments by the OGC. The PR will be put back into DOE/HQ concurrence on November 13, 1990.

Staff participated in the Site Suitability Workshop on November 14-16, 1990, in Albuquerque, New Mexico.

Staff supported the functional analysis of the physical operating system on November 14-15, 1990, in Washington, D.C.

Staff participated in a technical review of Revision 1 of Waste Management System Requirements IV under Quality Assurance Administrative Procedure 3.1.

### III. SIGNIFICANT ACCOMPLISHMENTS/INFORMATION ITEMS

The Project Manager participated in the public update meetings held in Hawthorne, Nevada, November 7, 1990, and Amargosa Valley, Nevada, November 8, 1990. Also, the transportation staff attended these meetings, and transportation questions and issues resulting from the presentation were addressed.

The Project Manager participated in the Site Suitability Methodology Workshop on November 14-16, 1990, in Albuquerque, New Mexico.

A presentation was given to the Japanese Minister of Nuclear Energy on November 14, 1990, at the Las Vegas, Nevada, Yucca Mountain Information Office.

NOV 20 1990

Two members of Admiral James D. Watkins' staff, Polly Gault, Chief of Staff, and Stephen May, Special Assistant, were given a tour of Yucca Mountain on Tuesday, November 13, 1990.

In response to a NWTREB request, a draft agenda and logistics plan was developed for a Spring 1991 workshop on alternate waste-package design approaches.

Project support was provided for the Headquarters Management Systems Improvement Strategy activity in the operations functional analysis task.

#### IV. UPCOMING EVENTS CALENDAR

Please note that the usage of "(P)" in the calendar indicates that the event is open to the public.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>A. <u>DOE/EQ Meetings</u></b>			
Wednesday, November 28	Program Management Meeting	Washington, DC	C. Gertz, Project Office
<b>B. <u>Internal Project and DOE/NV meetings</u></b>			
Monday, November 26	Planning & Budget Meeting	Las Vegas, NV	C. Gertz, Project Office
Tuesday, November 27	TPO Meeting	Las Vegas, NV	C. Gertz, Project Office
Friday, December 7	State of the Project Presentation	Denver, CO	C. Gertz, Project Office
<b>C. <u>State and Public Interactions (P)</u></b>			
Monday, November 19	Southern Nevada School Administrators	Las Vegas, NV	A. Robison, Project Office
Tuesday, November 20	Public Update Meeting	Henderson, NV	C. Gertz, Project Office

NOV 20 1990

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>C. <u>State and Public Interactions (continued) (P)</u></b>			
Wednesday, November 21	Casino Center Optimists Club	Las Vegas, NV	C. Gertz, Project Office
Tuesday, December 4	Nevada History Class at UNLV	Las Vegas, NV	C. Gertz, Project Office
Thursday, December 6	Arizona State-wide Meeting of ANS Student Chapters	Tucson, AZ	C. Gertz, Project Office
Wednesday, January 9, 1991	Daughters of the American Revolution	Las Vegas, NV	C. Gertz, Project Office
<b>D. <u>Exhibits</u></b>			
Friday- Saturday, November 16-17	Nevada Science Teachers Association	Elko, NV	M. Powell, Project Office
<b>E. <u>NRC Interactions</u></b>			
Thursday, December 13	Interactions Schedul- ing Meeting	Washington, DC	A. Simmons, Project Office
Wednesday, November 21 (POSTPONED)	TE on ESF Scoring	Denver, CO	A. Simmons, Project Office
Wednesday- Thursday, November 28-29	TE on Performance Assessment	Albuquerque, NM	A. Simmons, Project Office
<b>F. <u>NWTRB Interactions</u></b>			
Monday- Tuesday, November 19-20	NWTRB TE on ESF Scoring	Denver, CO	A. Simmons, Project Office
Tuesday- Thursday, January 15-17, 1991	NWTRB Full Board Meeting	Washington, DC	A. Simmons, Project Office

NOV 20 1990

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>F. <u>NWTRB Interactions (continued)</u></b>			
Tuesday- Thursday, April 16-18, 1991	NWTRB Full Board Meeting	Reno, NV	A. Simmons, Project Office
Tuesday- Thursday, July 16-18, 1991	NWTRB Full Board Meeting	Arlington, VA	A. Simmons, Project Office
Tuesday- Thursday, October 8-10, 1991	NWTRB Full Board	TBD	A. Simmons, Project Office



Carl P. Gertz, Project Manager  
Yucca Mountain Site Characterization  
Project Office

YMP:DLH-882

## CC:

H. H. Brandt, HQ (RW-13) FORS  
 J. C. Bresee, HQ (RW-10) FORS  
 S. J. Brocoun, HQ (RW-20) FORS  
 B. A. Cerny, HQ (RW-14) FORS  
 M. A. Ferguson, HQ (RW-5) FORS  
 Stephanie Hanna, HQ (PA-3) FORS  
 T. H. Isaacs, HQ (RW-4) FORS  
 G. P. King, HQ (RW-5) FORS  
 R. A. Milner, HQ (RW-40) FORS  
 F. G. Peters, HQ (RW-2) FORS  
 Samuel Rousso, HQ (RW-10) FORS  
 D. E. Shelor, HQ (RW-30) FORS  
 C. M. Smith, HQ (RW-2) FORS  
 Jerry Saltzman, HQ (RW-5) FORS  
 Jeff Roberts, CH, IL  
 Marianne Heiskell, ORO  
 J. H. Anttonen, BWI, RL, WA  
 Ron Pope, ORNL, Oak Ridge, TN  
 L. R. Hayes, USGS, Las Vegas, NV  
 P. T. Prestholt, NRC, Las Vegas, NV  
 Robert Jackson, Weston, Washington, DC  
 Donald Schweitzer, BNL, Upton, NY  
 R. J. Herbst, LANL, Los Alamos, NM

We divided up the responsibilities for writing various chapters and reviewed several preliminary drafts as a group. The group was able to reach consensus on most of the topics, however, I was surprised to find that none of the other countries considered any increase in the intruder dose criteria above off-site release limits. This will affect any subsequent classification system. Another area of controversy was the length of an institutional control period. We were able to agree on the need for an institutional control period, but were unable to agree on a suggested range for such a control period. I think we can resolve this before the standard is forwarded to the RADWASS Standing Technical Committee. If you have any suggestions on input to the draft standard, I would appreciate any comments. I have to provide revisions by the end of December.

As a result of participating in this meeting, I have established some very good contacts with other member countries. For example, George Jack, a senior manager for the Canadian Atomic Energy Control Board, is also responsible for regulating uranium mill tailings in Canada. We spent a considerable amount of time discussing disposal problems associated with mill tailings disposal. I have sent him a copy of our recent erosion protection technical position. He is interested in visiting NRC in the future to discuss both low-level waste and uranium mill tailings disposal practices. As a group, we were also able to discuss in detail low-level waste management procedures in all five countries (Canada, France, England, Sweden and the U.S.). I found these discussions during lunch and evening meetings to be very informative, and they will be useful in evaluating our regulatory practices for waste management.

In conclusion, I appreciate the opportunity to participate in this consultant meeting, and I would be pleased to discuss any additional details at your convenience.

ORIGINAL SIGNED BY  
John T. Greeves

John T. Greeves, Deputy Director  
Division of Low-Level Waste Management  
and Decommissioning, NMSS

Enclosures: As stated

cc: G. Arlotto, NMSS  
S. Schwartz, GPA  
J. Shea, GPA

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SUBJECT ABSTRACT: TRIP REPORT TO VIENNA, AUSTRIA

OFC :LLWM : LLWM :  
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NAME: *JGreeves*/es: RBangart :  
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DATE: 12/7/90 : 12/11/90 :