



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, Acting Director, HLPD, M/S 4 H 3  
FROM: Paul T. Prestholt and John W. Gilray  
Sr. On-Site Licensing Representatives  
DATE: August 1, 1991  
SUBJECT: YUCCA MOUNTAIN PROJECT WEEKLY HIGHLIGHTS

Please find enclosed the above-referenced report for the weeks of July 12 and July 19, 1991.

There is nothing requiring specific management attention in the 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**  
Yucca Mountain Site Characterization  
Project Office  
P. O. Box 98608  
Las Vegas, NV 89193-8608

WBS 1.2.9  
QA: N/A

**JUL 18 1991**

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

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
JULY 12, 1991

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

**A. Site Characterization Planning**

The YMP Site Manager initiated two highly-visible and significant activities on July 7, 1991. The first was the initial preconstruction meeting held at the YMP Site Office for Job Package (JP) 91-1, Midway Valley, and JP 91-2, Trench 14. Representatives from the participants were present and the meeting went as planned. Immediately following the meeting, the Site Manager convened the first Field Change Control Board (FCCB). As a result of the FCCB meeting the YMP Site Manager approved, with the concurrence of the board members, five changes that would affect documentation for the two respective job packages.

Excavation activities began on July 9, 1991, at Midway Valley to study Quaternary faulting, and Trench 14 is being deepened to study the calcite-silica veins. Daily inspection reports are being prepared and submitted by Raytheon Services Nevada (RSN). These activities represent the first new surface-disturbing site characterization work at the site since 1986.

**Exploratory Studies Facility (ESF) Task Force Activities**

Office of Civilian Radioactive Waste Management (OCRWM) Milestone (M/S) status: (See note)

The following milestones/activities have not been completed in accordance with their scheduled dates as outlined in the RW-1 letter of February 12, 1991, to RW-20 and RW-30:

MILESTONE	SCHEDULED DATE	EXPECTED DATE
R0A: Prepare plan for resolution of the U.S. Nuclear Regulatory Commission (NRC) Site Characterization Analysis Design Control Objection.	3/15/91	TBD
H1: Issuance of a public document articulating the ESF Decision Process.	CANCELLED BY OCRWM	
H2: Prepare transition plan from current document hierarchy to new document hierarchy (Management System Improvement Strategy [MSIS]).	3/15/91	TBD
H4: Letter transmittal to the NRC informing them of implementation of the Design Control Process by OCRWM.	3/31/91	9/91

Note: At this time none of the above M/S appear to have a specific impact on OCRWM M/S H10, the initial phase of ESF portal construction.

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STATUS OF ESF GENERAL ARRANGEMENT DRAWINGS  
(Architect/Engineer Design Activities)

DELIVERABLE	NORTH AREA (81)	SOUTH AREA (86)*
Mock Up	COMPLETE	93
Computer-aided draft design (CADD)	COMPLETE	77
Check	COMPLETE	49
I-D Review	COMPLETE	-
Quality Assurance (QA) Sign Off	COMPLETE	-

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\*The number of deliverable drawings will increase from 86 to a possible 123. The Testing Plan detail requires additional drawings for better explanation.

Mock Up: Sketched to a completed, free-hand drawing, then delivered to CADD.

CADD: Computer-Aided Drawing and Design; produces finished drawing.

Interdisciplinary Review: In-house review to ensure all aspects of drawing are covered. Disciplines include Civil, Mechanical, Mining, Structural and Architectural, and Electrical Engineering.

Site Characterization Plan (SCP) Progress Report (PR)

OGD has begun incorporating comments received during an OCRWM and U.S. Department of Energy/Headquarters (DOE/HQ) review which began on June 10, 1991. A concurrence draft of PR 4 is in preparation.

SCP Comments

A three day Integration Group Meeting was held in Las Vegas, Nevada, on July 9-11, 1991, to continue review of draft responses for the State of Nevada's September 1989 SCP comment package.

SCP Study Plan Status

A comment resolution meeting on Study Plan 8.3.4.2.4.3, "Mechanical Properties of the Waste Package Environment," was held on July 8-9, 1991, at Lawrence Livermore National Laboratory (LLNL).

A screening review was completed on Study Plan 8.3.1.5.1.6, "Characterization of Future Regional Climates and Environs," and it was judged to be adequate for technical review.

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STUDY PLAN BREAKDOWN

In Screening Review.....	0
In Revision after Screening review.....	1
In Yucca Mountain Site Characterization Project	
Office (YMPO) and HQ Review.....	10
Awaiting Comment Resolution Meeting.....	11
Awaiting Author revision.....	8
In YMPO/HQ Verification Audit.....	7
Verification Complete-Awaiting HQ sign-off.....	0
Awaiting YMPO Approval.....	0
Approved and Awaiting transmittal to NRC.....	0
NRC Acceptance Review.....	21
NRC Acceptance.....	7
Total.....	65

STUDY PLAN BREAKDOWN (continued)

Received Comments from the State of Nevada.....	5
Response Transmitted to the State of Nevada.....	2
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Received Comments from the NRC.....	7
Responses Transmitted to HQ.....	3
Responses Awaiting HQ Transmittal to NRC.....	1
Responses Transmitted to NRC.....	2
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Early Site Suitability Evaluation (ESSE)

Integration of the general guideline evaluations was completed and the complete ESSE preliminary draft report, Report of Early Site Suitability Evaluation of the Potential Repository Site at Yucca Mountain, Nevada, was submitted on schedule, July 10, 1991, for review in accordance with Standard Practice Procedure (SP) 2.3.

Revision 2 of TMSS/PM-91/001, T&MSS Implementation Plan for Developing and Implementing a Method for Early Evaluation of Site Suitability, was submitted on July 8, 1991, for a review per SP 1.35.

Revision 1 of YMP/91-1, Activity Plan for Development and Implementation of a Method for Early Evaluation of Site Suitability, was submitted on July 9, 1991, for a YMPO review per Quality Management Procedure-06-04.

Prototype drilling

Prototype drilling is on schedule to start July 15, 1991, near Tooele, Utah. The purpose is to test the operation of the new pipe-handling system on the LM300 dry drilling and coring rig. Tests are scheduled to run for three weeks.

B. Environmental Programs

Environmental Compliance and Permitting

Preparations continue for the Underground Injection Control Permit hearing on July 16, 1991, and the Water Appropriations Permit hearing on September 24, 1991.

Environmental Field ProgramsC. Field Operations

As of July 8, 1991, 96,400 gallons of water had been delivered from California and stored at the YMP site.

Barbara Carlos, Los Alamos National Laboratory (LANL), performed Sample Examination and Specimen Removal at the Sample Management Facility (SMF).

An Occupational Safety and Health Administration Safety Inspection was conducted at the SMF.

D. Project Planning and Control

Participant performance data was received for the month of June 1991 and was entered into the Planning and Control System. Performance reports will be prepared from the data for both participant and YMPO review and action.

E. Quality Assurance Implementation

No new items this week.

F. Major Oversight Group Meetings

No major meetings this week.

G. Public Outreach Activities

Office of Institutional and External Affairs (OIEA) staff continues to plan and organize the opening reception activities for the Climax Mine Spent Fuel Test Exhibit scheduled for the evening of July 30, 1991, at the Yucca Mountain Information Office, Las Vegas, Nevada. Attending that reception will be dignitaries from DOE/HQ OCRWM, the DOE Nevada Operations Office and YMP; local prominent business people; union officials; civic groups; and officials from the State of Nevada.

OIEA staff distributed VHS tapes of the project-related series on the Cable News Network that were aired two weeks ago.

OIEA staff assisted YMPO staff drafting a response to the institutional-related recommendation by the Nuclear Waste Technical Review Board (NWTIRB) in its Third Report to the U.S. Congress.

An educational presentation was made by YMP Project Manager to the Department of Geological Sciences at the University of California, Santa Barbara, California, on July 9, 1991.

A YMP overview presentation was made by Carl Gertz on July 10, 1991, at the Yucca Mountain Information Office to the Insurance Women of Las Vegas, Nevada.

A media outing for the start of new studies was conducted on July 10, 1991. Carl Gertz gave a YMP briefing to the tour group prior to their departure from the Field Operations Center.

#### H. Systems Management and Integration

##### Management System Improvement Strategy

YMPO remains concerned that it has not received MSIS draft products in accordance with the schedule developed by the Office of Systems Compliance. The YMPO schedule has been implemented to baseline project level documents for use in the review of the revised Title I Summary Report, the Energy Systems Acquisition Advisory Board (ESAAB) Review, and the start of ESF Title II Design.

##### Geographic Information System (GIS)

Claudia Newbury is representing OGD at the GISDEX Meeting in Washington, D.C. This is a meeting of Federal GIS managers to discuss Federal policy and system development.

##### Performance Assessment

The report "Porosity Models for Solute Transport at Yucca Mountain," SAND90-2619, July 1991 was printed and distributed. The report presents a dual porosity model, but calculations show that a single-porosity approach may be adequate for modeling solute transport at Yucca Mountain if the water fluxes are as low as currently believed.

## II. ANALYSIS & VERIFICATION DIVISION

Participated in the DOE/Edison Electric Institute Meeting on Seismic Design Issues on July 9, 1991, in Las Vegas, Nevada.

Participated in the Exploratory Studies Facility Test Coordination Meeting on July 11, 1991, in Las Vegas, Nevada.

A verification review was completed under the Implementing Line Procedure 22.3.1 review procedure on Study Plan 8.3.1.3.7.1, "Retardation Sensitivity Analyses."

A technical review was completed under the Administrative Procedure 1.10Q review procedure for Study Plan 8.3.1.5.3.1/.2, "Dissolved Species Concentration Limits and Colloid Behavior."

III. GENERAL INFORMATION ITEMS

Technical and Management Support Services is preparing slides and copies of repository perspective drawings prepared by RSN which incorporate the ESF Reference Design Concept.

The test evaluation matrix for Independent Cost Estimate support based on comments by Gary Roberson, OGD, is being updated.

Support is being initiated for the Seismic Design Basis Task Force.

Speciality Engineering requirements that are prerequisites for the start of Title II authorization by the ESAAB are being drafted.

RSN

All comments from the Independent Technical Review of the ESF North Area Design Studies including comments from the Mine Safety and Health Administration received this week, have been resolved and will be incorporated into the drawings or Design Summary Report or deferred to Title II design.

LANL

An Exploratory Studies Test Committee meeting was held on July 11, 1991, to initiate revision of the ESF Design Requirements, Appendix B.

Regulatory and Site Evaluation Division review of Test Plan Package 91-5, Phase 3, was completed in support of the development of the general arrangement drawings.

The preliminary Safety Analysis Report (SAR) for ESF testing was submitted. The report is to be incorporated into the preliminary SAR for YMP.

An initial fluid materials list was developed as part of the Tracers, Fluids/Materials System Plan.

LLNL

Response was completed to questions dealing with the Total System Life Cycle Cost of the container. Preparations are in progress for a meeting with HQ on July 18-20, 1991.

Sandia National Laboratories

A meeting was held on July 10, 1991, to finalize the System Studies Plan outline and implementation requirements. The draft plan is scheduled for transmittal to YMP/O by September 15, 1991.

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

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>A. <u>DOE/HQ Meetings</u></b>			
Thursday, July 31	Program Management Meeting	Las Vegas, NV	C. Gertz
<b>B. <u>Internal and DOE/NV Meetings</u></b>			
Thursday, July 25	TPO Meeting	Las Vegas, NV	C. Gertz
Friday, July 26	Planning & Budget Meeting	Las Vegas, NV	C. Gertz
<b>C. <u>NRC Interactions</u></b>			
Tuesday, July 30	NRC TE on Data Management	TBD	J. Cooper
Wednesday- Thursday, August 7-8	NRC SV on Waste Form: Glass	Savannah River	J. Cooper
Thursday, September 12	NRC Management Mtg. on Procedural Agreements	Washington, DC	T. Bjerstedt
Monday- Tuesday, September 16-17	NRC TE on ESF Design Status	TBD	J. Cooper
Tuesday- Wednesday, October 29-30	NRC TE on Scenario Development & CCDF	TBD	J. Cooper
Tuesday, November 19	NRC Meeting on Regulatory Strategy	Washington, DC	T. Bjerstedt
Wednesday, November 20	NRC Interactions Scheduling Meeting	Washington, DC	J. Cooper

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>D. <u>NWTRB Interactions (P)</u></b>			
Monday, July 15	SG&G Panel Meeting on ESF Design Review Update	Arlington, VA	A. Simmons
Tuesday- Thursday, July 16-18	NWTRB Full Board Meeting	Arlington, VA	A. Simmons
Thursday, August 15	NWTRB T&S Panel Public Hearing	Denver, CO	A. Simmons
Monday- Tuesday, August 26-27	WIPP Tour and Roundtable Discussion	Albuquerque, NM	A. Simmons
Thursday- Friday, September 5-6	SG&G Panel Mtg. on Seismic Vulnerabilities	Salt Lake Cty, UT	A. Simmons
Wednesday- Thursday, September 18-19	Borehole Sealing and Backfill	Albuquerque, NM	A. Simmons
Wednesday- Thursday, September 18-19	SG&G Panel Mtg. on ESF Design Review	Seattle, WA TENTATIVE	A. Simmons
Sunday- Tuesday, September 25-27	T&S Panel Meeting	TBD	A. Simmons
Tuesday- Thursday, October 8-10	NWTRB Full Board Meeting	Las Vegas, NV	A. Simmons
Tuesday- Wednesday, November 12-13 TENTATIVE	SG&G Panel Mtg. on Test Prioritization, Site Suitability & ESF Design	Dallas, TX	A. Simmons
<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
<b>E. <u>State and Public Interactions</u></b>			
Friday, July 19	Operating Engineers	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)			
Tuesday, July 30	YM Lecture Series Mining Cultures of American SW (P)	Info Office Las Vegas, NV	W. Beam
Thursday, August 1	YM Lecture Series Mining Cultures of American SW (P)	Info Office Beatty, NV	W. Beam
Tuesday, August 13	Americana Group Realtors	Las Vegas, NV	C. Gertz
Tuesday, August 20	Mesquite Club	Las Vegas, NV	J. Younker
Thursday, August 22	Palo Verde Nuclear Power Plant	Wintersburg, AZ	C. Gertz
Thursday, August 29	Nat'l Forum of Black Public Administrators	Las Vegas, NV	C. Gertz
Monday, Sept. 30	Focus '91 Nuclear Waste Packaging	Las Vegas, NV	C. Gertz
Tuesday, October 15	Inyo County Republican Women, Federated	Bishop, CA	C. Gertz
Friday, October 18	Discover Nevada Conference	Las Vegas, NV	C. Gertz
<u>Date</u>	<u>Event</u>	<u>Location</u>	

F. Exhibits Scheduled

Saturday- Tuesday, July 13-16	National Association of Counties	Salt Lake City, UT
Friday, July 19	Public Open House (P)	Las Vegas, NV
Wednesday- Monday, August 14-19	Nevada State Fair (P)	Reno, NV

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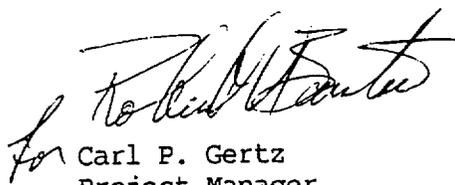
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<u>Date</u>	<u>Event</u>	<u>Location</u>
F. <u>Exhibits Scheduled</u> (continued)		
Date TBD	Lincoln County Fair (P)	Panaca, NV
Saturday-Monday, August 31-September 2	Pioche Labor Day (P) Celebration	Pioche, NV
Saturday, September 21	Public Open House (P)	Las Vegas, NV
Thursday-Sunday, September 26-29	Women of the '90s (P)	Las Vegas, NV
Friday-Sunday, September 27-October 6	Jaycees State Fair (P)	Las Vegas, NV
<u>Date</u>	<u>Event</u>	<u>Escorts</u>
G. <u>Tours Scheduled</u>		
Monday, July 15	Mitsubishi Nuclear Fuels	A. Stephenson K. Schultz
Wednesday, July 17	University of Georgia	J. Stuckless F. Baird
Wednesday, July 17	Office of Technology Assessment and Carl Johnson - Nuclear Waste Project Office	TBD
Friday, July 19	Public Open House (P)	Various Escorts
Wednesday, July 24	Bureau of Land Management	TBD
Wednesday, July 31	Geochemical Technical Exchange	A. Simmons P. Cloke
Friday, August 1	OCRWM Site Tour	C. Gertz

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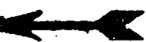
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<u>Date</u>	<u>Event</u>	<u>Escorts</u>
G. <u>Tours Scheduled</u> (continued)		
Saturday, August 24	Laborers/Miners Union	Various Escorts
Saturday, September 21	Public Open House (P)	Various Escorts
Wednesday, October 23	Public Open House (P)	Various Escorts

*for*   
 Carl P. Gertz  
 Project Manager

YMP:DLH-4741

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-14) FORS  
 M. A. Ferguson, HQ (RW-5) FORS  
 Stephanie Hannah, HQ (PA-3) FORS  
 T. H. Isaacs, HQ (RW-4) FORS  
 G. P. King, HQ (RW-5) 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  
 D. E. Shelor, HQ (RW-30) FORS  
 C. M. Smith, HQ (RW-2) 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   
 Donald Schweitzer, BNL, Upton, NY  
 R. J. Herbst, LANL, Los Alamos, NM  
 D. T. Oakley, LANL, Washington, DC  
 L. J. Jardine, LLNL, Livermore, CA  
 T. E. Blejwas, SNL, 6310, Albuquerque, NM  
 R. W. Lynch, SNL, 6300, Albuquerque, NM



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

WBS 1.2.9  
QA: N/A

JUL 24 1991

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

OFFICE OF GEOLOGIC DISPOSAL WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
JULY 19, 1991

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

A. Site Characterization Planning

Exploratory Studies Facility (ESF) Task Force Activities

Office of Civilian Radioactive Waste Management (OCRWM) Milestone  
(M/S) status: (See note)

The following milestones/activities have not been completed in  
accordance with their scheduled dates as outlined in the RW-1  
letter of February 12, 1991, to RW-20 and RW-30:

MILESTONE	SCHEDULED DATE	EXPECTED DATE
ROA: Prepare plan for resolution of the U.S. Nuclear Regulatory Commission (NRC) Site Characterization Analysis Design Control Objection.	3/15/91	TBD
H1: Issuance of a public document articulating the ESF Decision Process.	CANCELED BY OCRWM	
H2: Prepare transition plan from current document hierarchy to new document hierarchy (Management System Improvement Strategy [MSIS]).	3/15/91	TBD

H4: Letter transmittal to the NRC 3/31/91 9/91  
informing them of implementation  
of the Design Control Process by  
OCRWM.

Note: At this time none of the above M/S appear to have a  
specific impact on OCRWM M/S H10, the initial phase of ESF  
portal construction.

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STATUS OF ESF GENERAL ARRANGEMENT DRAWINGS  
(Architect/Engineer Design Activities)

DELIVERABLE	NORTH AREA (81)	SOUTH AREA (86)*
Mock Up	COMPLETE	107
Computer-aided draft design (CADD)	COMPLETE	88
Check	COMPLETE	66
I-D Review	COMPLETE	36
Quality Assurance (QA) Sign Off	COMPLETE	-

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\*The number of deliverable drawings will increase from 86 to a possible 123. The Testing Plan detail requires additional drawings for better explanation.

Mock Up: Sketched to a completed, free-hand drawing, then delivered to CADD.

CADD: Computer-Aided Drawing and Design; produces finished drawing.

Interdisciplinary Review: In-house review to ensure all aspects of drawing are covered. Disciplines include Civil, Mechanical, Mining, Structural and Architectural, and Electrical Engineering.

Site Characterization Plan (SCP) Progress Report

No new items this week.

SCP Comments

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**CURRENT STATUS OF COMMENT RESPONSE PREPARATION**July 19, 1991

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STATE OF NEVADA

Total Number of Comments:	1,917
Responses drafted thru May 31, 1991:	1,632
Number of outstanding comments, June 1, 1991:	285
Number of outstanding comments, July 12, 1991:	81
Number of outstanding comments, July 19, 1991:	42
Number of responses completed (with Integration Group approval sign-off), July 19, 1991:	
# of comments with one approval signature.....	440*
# of comments with two approval signatures.....	804

\*Note: Responses are considered "completed" when two Integration Group members have approved the response.

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PUBLIC WRITTEN COMMENTS

Total Number of Comments:	89
Responses drafted through May 31, 1991:	62
Number of outstanding comments, June 1, 1991:	27
Number of outstanding comments, July 19, 1991:	24

SCP Study Plan (SP) Status

The NRC has completed its Phase I review and found no objections to SP 8.3.1.2.2.1, Characterization of the Unsaturated-Zone Infiltration.

U.S. Geological Survey submitted a revised draft of SP 8.3.1.14.2, Studies to Provide Soil and Rock Properties for Potential Locations of Surface Facilities and Subsurface Access Facilities, for review on July, 15, 1991.

## STUDY PLAN BREAKDOWN

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In Screening Review .....	0
In Revision after Screening review .....	1
In Yucca Mountain Site Characterization	
Project Office (YMPO) and Headquarters (HQ) Review .....	12
Awaiting Comment Resolution Meeting .....	9
Awaiting Author Revision .....	9
In YMPO/HQ Verification Audit .....	7
Verification Complete-Awaiting HQ sign-off .....	0
Awaiting YMPO Approval .....	0
Approved and Awaiting transmittal to NRC .....	0
NRC Phase 1 Review .....	20
NRC Acceptance .....	8
Total .....	66

Received Comments from the State of Nevada .....	5
Response Transmitted to the State of Nevada .....	2

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Received Comments from the NRC .....	8
Responses Transmitted to HQ .....	3
Responses Awaiting HQ Transmittal to NRC .....	1
Responses Transmitted to NRC .....	2

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Early Site Suitability Evaluation (ESSE)

The task force on ESSE has submitted a draft of its report for review under Technical and Management Support Services (T&MSS) SP 2.3, to be completed by July 19, 1991. The internal comment resolution meeting on the draft report on results from the ESSE effort was held July 16-19, 1991, in Las Vegas, Nevada, with members of the YMPO staff in attendance.

A presentation was made July 17, 1991, by Jean Younker, ESSE Task Manager, regarding preliminary results of the report entitled "Early Site Suitability Evaluation of the Potential Repository Site At Yucca Mountain, Nevada."

#### Prototype Drilling

Shakedown of the LM-300 drilling rig manufactured for U.S. Department of Energy (DOE) by Lang Exploratory Drilling continued near Tooele, Utah. As of July 17, 1991, hammer drilling had reached 503 feet; a total depth of approximately 2,000 feet is planned to complete the shakedown.

### B. Environmental Programs

#### Environmental Compliance and Permitting

Comments were prepared and sent to the State of Nevada Division of Environmental Protection concerning the draft Underground Injection Control Permit. The public hearing concerning the application was scheduled for July 16, 1991.

#### Environmental Field Programs

Support was initiated for Trenches A, A', and 14 activities. Up to nine tortoises were monitored continuously each day. This effort ensured that no tortoises were harassed or harmed and no activities were delayed due to Biological Resource issues.

### C. Field Operations

In addition to the Open House Tour, tours were conducted for the Mitsubishi Nuclear Fuels group from Japan, the Office of Technological Assessment personnel from DOE/HQ; students from the University of Georgia, Athens, Georgia; and the Nevada Science Project teachers.

On July 15, 1991, the last load of water from Death Valley, California, was delivered to the site. No more water will be trucked in until further commencement of surface-disturbing activities. Excavation requirements for both Midway Valley Trench and Calcite-Silica Trench have been completed, and the desert tortoise fencing has been erected at both sites. The actual cost expenditures as of July 7, 1991, are \$41,767. This includes costs for the construction of water support.

The total amount of water delivered to the site through July 12, 1991, was 238,400 gallons. Total water used for dust control was 170,000 gallons.

Document control and configuration management change control personnel from Science Applications International Corporation have begun work at the Yucca Mountain Site Office in the Documents and Records Center.

A Sample Examination of approximately 1,000 feet of core was conducted by the Nevada Bureau of Mines and Geology.

D. Project Planning and Control

Planning and Control staff members made presentations during the Total System Life Cycle Cost Meeting held in Las Vegas, Nevada on July 17-19, 1991.

E. Quality Assurance Implementation

The Yucca Mountain Quality Assurance Division conducted a surveillance of Los Alamos National Laboratory on July 15-19, 1991. The surveillance was conducted to review Criteria 16, Corrective Action; and Criteria 18, Audits and Surveillances. No deficiencies were identified.

F. Major Oversight Group Meetings

The Nuclear Waste Technical Review Board (NWTBR) Structural Geology and Geoengineering Panel Meeting on MSIS implementation and ESF design was held on July 15, 1991; and the quarterly NWTBR full board meeting was held on July 16-17, 1991, in Arlington, Virginia. Stephan Brocoum, Director, Analysis and Verification Division, attended both sessions.

G. Public Outreach Activities

The fifth Open House Tour of Yucca Mountain was held Friday, July 19, 1991. Approximately 200 people signed up for the tour and were given guided tours of the Yucca Mountain Information Office, Las Vegas, Nevada, the Field Operations Center, and Yucca Mountain.

A presentation was coordinated for YMPO presentation at the Water Injection Permit hearing on July 16, 1991.

Fact sheets were drafted and planning and organizing activities continued for opening reception activities for the Climax Mine Spent Fuel Test Exhibit at the Yucca Mountain Information Office, Las Vegas, Nevada.

A YMPO draft response to the Institutional-related recommendation by the NWTBR in their Third Report to the U.S. Congress is under development.

A presentation was developed and hand-out material was prepared for a YMP overview presentation given by Carl Gertz on July 19, 1991, to the District 6 Operating Engineers. Office of Institutional and External Affairs staff set up and staffed a YMP exhibit for this meeting.

An exhibit was set up and staffed for the National Association of Counties in Salt Lake City, Utah, on July 13-16, 1991.

A YMP overview presentation was prepared for A.C. Robison, to present to members of the Office of Technology Assessment and Carl Johnson of the Nuclear Waste Project Office, Carson City, Nevada, prior to their departure from the Information Office for a tour of Yucca Mountain on July 17, 1991.

Approximately 50 children, ages 5 and 6, from the Children's Learning Center, toured the Yucca Mountain Information Office, Las Vegas, Nevada, on July 16, 1991. They were given a guided tour and a brief educational presentation by Effie Harle, T&MSS.

#### H. Systems Management and Integration

##### Management System Improvement Strategy

YMPO remains concerned that it has not received MSIS draft products in accordance with the schedule developed by the Office of Systems Compliance. The YMPO schedule has been implemented to baseline project level documents for use in the review of the revised Title I Summary Report, the Energy System Acquisition Advisory Board Review, and the start of ESF Title II Design.

##### Performance Assessment

The draft reports SAND89-7002 "Preclosure Radiological Safety Analysis for the Exploratory Shaft Facilities," June 1991, and SAND91-0155 "A Simplified Radionuclide Source Term for Total-System Performance Assessment," June 1991, were submitted to YMPO for formal review. The first report concludes that, if the ESF should become part of a repository, none of its components would be important to safety since radiation doses would not exceed 0.5 rem for individual events. The second report presents a parametric model of radionuclide releases from a single waste package and the whole repository for use in preliminary total system performance assessments.

The "Summary and Evaluation of September 1990 Sorption Workshop" was completed and distributed by YMPO. The workshop covered the state-of-the-art of radionuclide sorption and related processes and recommended future work, both experimental and mathematical.

### Technical Data Bases

Work continues on the Technical Data Parameter Dictionary and the Technical Data Base Handbook. First drafts of the Handbook sections have been completed. A draft of the complete Handbook will be complete by early August 1991. The second meeting of the Parameter Normalization was held on July 17, 1991. Participants will evaluate, reorganize, and refine the parameters currently in Paratrac by mid-August. The quarterly Technical Data Advisory Group met on June 18, 1991.

### Geographic Information System

Maps showing locations for the first surface disturbing activities were provided to YMPO for distribution. The Technical Data Manager and EG&G Project Manager attended GISDEX in Crystal City, Virginia, to learn the status of government and private industries initiatives in spatial data management. The YMP is on par with or ahead of many agencies in the development of standards and data catalogs.

## II. ANALYSIS & VERIFICATION DIVISION (AVD)

Participated in a meeting to review the budget prior to the OCRWM presentation to the Secretary, July 15, 1991, in Washington, DC.

Participated in an Issues Resolution meeting and Design Control meeting on July 18, 1991, in Washington, DC.

The management plan for the Mined Geologic Disposal System license application annotated outline was reviewed.

The Surveillance Report HQ-SR-91-009 for AVD involvement and actions was reviewed.

## III. GENERAL INFORMATION ITEMS

### Technical and Management Support Services

A meeting was held on Tuesday, July 16, 1991, to schedule the activities needed for power acquisition. Members of the YMP/DOE and the Nevada Operations Office participated.

The final draft of the ESF Management Review Plan was completed.

Preparation of the plan for revision of the Seismic Design Basis and preparation of the Quality Assurance Grading report were initiated.

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Raytheon Services Nevada

The letter announcing the July 29, 1991, Management Review of the South Area Design Studies was remitted.

The Title II Engineering Plan was begun.

Los Alamos National Laboratory

Development was initiated of characteristic determinations for the fluid materials list to support needed analyses as required under the Tracers, Fluids/Materials System Plan.

Development was initiated of the final Test Planning Package 91-5 Document and corresponding revision of the Exploratory Studies Facility Design Requirements, Appendix B.

Lawrence Livermore National Laboratory (LLNL)

The bibliography for repository thermal loading was completed. It was presented at the NWTRB meeting held July 16-17, 1991.

The first draft of the SCP conceptual design materials selection results using approved criteria was presented.

LLNL staff attended a meeting in Berkeley, California, to contribute ideas on source term development for the Total System Performance Assessment analysis being developed by Sandia National Laboratories.

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

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
A. <u>DOE/EQ Meetings</u>			
Wednesday, July 31	Program Management Meeting	Las Vegas, NV	C. Gertz

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>B. <u>Internal and DOE/NV Meetings</u></b>			
Thursday, July 25	TPO Meeting	Las Vegas, NV	C. Gertz
Friday, July 26	Planning & Budget Meeting	Las Vegas, NV	C. Gertz
<b>C. <u>NRC Interactions</u></b>			
Tuesday, July 30	NRC TE on Data Management	TBD	J. Cooper
Wednesday- Thursday, August 7-8	NRC SV on Waste Form: Glass	Savannah River	J. Cooper
Thursday, September 12	NRC Management Mtg. on Procedural Agreements	Washington, DC	T. Bjerstedt
Monday- Tuesday, September 16-17	NRC TE on ESF Design Status	TBD	J. Cooper
Tuesday- Wednesday, October 29-30	NRC TE on Scenario Development & CCDF	TBD	J. Cooper
Tuesday, November 19	NRC Meeting on Regulatory Strategy	Washington, DC	T. Bjerstedt
Wednesday, November 20	NRC Interactions Scheduling Meeting	Washington, DC	J. Cooper
<b>D. <u>NWTRB Interactions (P)</u></b>			
Monday, July 15	SG&G Panel Meeting on ESF Design Review Update	Arlington, VA	A. Simmons
Tuesday- Thursday, July 16-18	NWTRB Full Board Meeting	Arlington, VA	A. Simmons
Thursday, August 15	NWTRB T&S Panel Public Hearing	Denver, CO	A. Simmons

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
D. <u>NWTRB Interactions (P)</u> (continued)			
Monday- Tuesday, August 26-27	WIPP Tour and Roundtable Discussion	Albuquerque, NM	A. Simmons
Thursday- Friday, September 5-6	SG&G Panel Mtg. on Seismic Vulnerabilities	Salt Lake Cty, UT	A. Simmons
Wednesday- Thursday, September 18-19	Borehole Sealing and Backfill	Albuquerque, NM	A. Simmons
Wednesday- Thursday, September 18-19	SG&G Panel Mtg. on ESF Design Review	Seattle, WA TENTATIVE	A. Simmons
Wednesday- Friday, September 25-27	T&S Panel Meeting	TBD	A. Simmons
Tuesday- Thursday, October 8-10	NWTRB Full Board Meeting	Las Vegas, NV	A. Simmons
Tuesday- Wednesday, November 12-13 TENTATIVE	SG&G Panel Mtg. on Test Prioritization, Site Suitability & ESF Design	Dallas, TX	A. Simmons
E. <u>State and Public Interactions</u>			
<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>

Monday,  
July 22Partnership in  
Education ProgramInfo Office  
Las Vegas,  
NV

C. Gertz

Tuesday,  
July 30YM Lecture Series  
Mining Cultures of  
American SW (P)Info Office  
Las Vegas,  
NV

W. Beam

Thursday,  
August 1YM Lecture Series  
Mining Cultures of  
American SW (P)Info Office  
Beatty,  
NV

W. Beam

E. State and Public Interactions (continued)

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
Tuesday, August 13	Americana Group Realtors	Las Vegas, NV	C. Gertz
Wednesday, August 14	American Business Women's Association	Las Vegas, NV	A. Gil
Tuesday, August 20	Mesquite Club	Las Vegas, NV	J. Younker
Thursday, August 22	Palo Verde Nuclear Power Plant	Wintersburg, AZ	C. Gertz
Thursday, August 29	National Forum of Black Public Administrators	Las Vegas, NV	C. Gertz
Monday, Sept. 30	Focus '91 Nuclear Waste Packaging	Las Vegas, NV	C. Gertz
Tuesday, October 15	Inyo County Republican Women, Federated	Bishop, CA	C. Gertz
Friday, October 18	Discover Nevada Conference	Las Vegas, NV	C. Gertz

F. Exhibits Scheduled

<u>Date</u>	<u>Event</u>	<u>Location</u>
Wednesday- Monday, Aug. 14-19	Nevada State Fair (P)	Reno, NV
Date TBD	Lincoln County Fair (P)	Panaca, NV
Saturday- Monday, August 31- September 2	Pioche Labor Day (P) Celebration	Pioche, NV
Saturday, September 21	Public Open House (P)	Las Vegas, NV

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F. Exhibits Scheduled (continued)

<u>Date</u>	<u>Event</u>	<u>Location</u>
Thursday- Sunday, September 26-29	Women of the '90s (P)	Las Vegas, NV
Friday- Sunday, September 27- October 6	Jaycees State Fair (P)	Las Vegas, NV

G. Tours Scheduled

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
Wednesday, July 24	Bureau of Land Management	TBD
Wednesday, July 31	Geochemical Technical Exchange	A. Simmons P. Cloke
Wednesday, August 14	ESSE Task Force	TBD
Saturday, August 24	Laborers/Miners Union	Various Escorts
Saturday, September 21	Public Open House (P)	Various Escorts
Tuesday, October 22	Northern States Power	TBD
Wednesday, October 23	Public Open House (P)	Various Escorts

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*fn Maxwell Blanchard*  
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