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SUBJECT: Forwards Dfc of Geologic Disposal weekly highlights for wk ending 920814.

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TO: Joseph Holonich, Director, HLPD, M/S 4 H 3
FROM: Paul T. Prestholt and John W. Gilray
DATE: August 26, 1992
SUBJECT: OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE
WEEK ENDING AUGUST 14, 1992

Please find enclosed the above-referenced report.

There is nothing requiring specific management attention in the
report.

cc: w/enc.: William Belke, M/S 4 H 3
Rosetta Virgilio, M/S 3 D 23
Dean Kunihiro, Region 5

PTP:nan

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Department of Energy
Yucca Mountain Site Characterization
Project Office
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Las Vegas, NV 89193-8608

WBS 1.2.9.2
QA: N/A

AUG 21 1992

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

OFFICE OF GEOLOGIC DISPOSAL (OGD) WEEKLY HIGHLIGHTS FOR THE WEEK ENDING
AUGUST 14, 1992

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

A. Site Characterization Planning

Permits

The U.S. Department of Energy (DOE) was notified by letter, dated August 7, 1992, that its requests for up to an additional 274 acre feet of water annually for site characterization were ready to be approved.

The National Park Service and the U.S. Fish and Wildlife Service had both protested these applications subject to the terms and conditions of the DOE's original permit, including the requirement to implement a water monitoring program. The State Engineer found in favor of the protesters by agreeing to include these conditions in the new applications. With the existing water appropriations permit, the new applications will result in a total appropriation from all sources of up to 430 acre feet annually.

Field Operations

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

The annual Safety Awareness Program for YMP personnel was held on August 13, 1992; Patricia Russell-McCloud was the guest speaker. Awards were presented for outstanding safety performance during the past year.

On August 12, 1992, fault trenching activities commenced at Busted Butte.

Sample Management Facility

Processing of core and cuttings from UE25 UZ-16 continued. Core was laid out from UE25 UZN-16 for examination by the U.S. Geological Survey representatives. Drilling began on USW UZN-33. Processing of samples from UE25 UZN-63 continued.

Site Investigations

Regarding the USW UZ-16 Borehole (Job Packages [JP] 92-3 and 92-4), a total of 59.9 feet of core was taken this week; and the borehole was reamed from 407.39 feet to 468.75 feet. Core depth was 468.58 feet. Potential loss caused by the .17 feet of overream will be evaluated next week when the next coring cycle is initiated. Drilling operations were postponed on August 10, 1992, because of work required on the HazVac vacuum system; the crew was utilized for acceptance testing of the Stratmaster which just came out of recertification. An inclination survey of less than 1/4 degree (14 minutes) was taken at 435 feet. Sampling this week was in the Topopah Springs upper lithophysal unit. Coring will continue in this interval to a depth of 538 feet at the end of this reporting period.

Two of four pavement surfaces at the Busted Butte site were cleared. These pavement clearings are part of Quaternary Faulting studies (JP 92-12).

Borehole USW UZN-63, which is located in Pagany Wash, was completed to a total depth of 60 feet on August 11, 1992. Mobilization of the drilling equipment to the second of the Phase 2 neutron-access boreholes (N33) is in progress. Drilling should commence on August 13, 1992.

Issue Resolution

A plan has been drafted to prioritize site characterization activities supporting Seismic Hazard Issue Resolution. The plan will be transmitted to John Bartlett this week.

Annotated Outline (AO) for Mined Geologic Disposal System (MGDS) License Application

The Yucca Mountain Site Characterization Project Office (YMPO) is currently reviewing Revision 1 of the MGDS AO. Comments will be transmitted to RW-331 on August 17, 1992.

Review of Revision 1 of the Monitored Retrievable Storage AO is currently in comment resolution; the resolution telecon is scheduled for August 17, 1992.

Exploratory Studies Facility (ESF) Task Force Activities

The Independent Technical Review of the 90 percent complete ESF Design Package 1A, which began on July 27, 1992, concluded on August 14, 1992. Overall, it covers 186 drawings, 45 analyses, and 115 specifications.

Site Characterization Plan (SCP) Study Plan (SP) Status

Two new SPs were approved by YMPO: SP 8.3.1.2.2.8, "Fluid Flow in Unsaturated, Fractured Rock;" and SP 8.3.1.3.7.1, "Retardation Sensitivity Analysis."

STUDY PLAN BREAKDOWN

In Screening Review	0
In YMPO and DOE/Headquarters(HQ) Review	1
Awaiting Comment Resolution	12
Awaiting Author Revision	5
In YMPO/HQ Verification Audit	5
Preparing to Submit or Awaiting YMPO Approval	4
Awaiting Submission to U.S. Nuclear Regulatory Commission (NRC)	3
NRC Phase 1 Review	14
NRC Acceptance	27
Total	71

SCP/SP Status:

Total SPs Assigned to Cover 106 Studies	103
SPs Not Yet Submitted for Review	38
SPs Submitted for Initial Review	65
Revised SPs Submitted for Review	6
Total SPs Submitted for Review	71

State of Nevada Comments Status:

Received Comments from the State of Nevada	10
Responses Transmitted to the State of Nevada	8

NRC Comments Status:

Received Comments from NRC	14
Responses Transmitted from OGD to DOE/HQ	9

B. Project Planning and Control

The Mission 2001 Long-Range Plan/Integrated Project Schedule was downloaded to each of the participants.

Participant Planning and Control System (PACS) cost/schedule status data for July 1992 was processed via the PACS participant work stations and uploaded to PACS participant data bases; rollup calculations were performed. Participant data bases were transferred to the project data base, and rollup was executed. Participant status reports were produced for distribution.

The current Mission 2001 planning data was produced for review by the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O).

C. Quality Assurance (QA) Implementation

Determination of Importance and Grading Enhancement

Continuation of Existing Process

The transition process from the old to the new continues. According to YMPO direction, participants are no longer submitting QA Grading Reports. The Quality Review Board completed processing of the Grading Reports which were submitted before July 31, 1992.

Quality (Q) List and Q-List Procedure Development

Administrative Procedure (AP) 6.17Q training preparations were completed and training of six members of the new Assessment Team was conducted on August 13, 1992.

Implementation

Approval signatures were obtained for the implementation plan for AP 6.17Q (YMP/92-25). The plan is in the publication cycle.

D. Public Outreach and Institutional Activities

The CRWMS M&O and Institutional and External Affairs (IEA) staff coordinated a briefing on Public Outreach programs for the CRWMS M&O senior staff. The briefing, which was presented by A. C. Robison (YMPO) and Mindy Wadkins (Technical and Management Support Services), on August 10, 1992, is the first step in a campaign to increase participation in outreach programs by CRWMS M&O employees.

IEA staff accompanied a Detroit News reporter on a tour of Yucca Mountain, Nevada, on August 10, 1992.

The YMP, Lawrence Livermore National Laboratory (LLNL), the Clark County School District, and other corporate sponsors are providing a science education workshop (Lessons) for kindergarten through eighth grade Clark County School District teachers. Eighteen teachers attended the two-week workshop which was held on August 3-13, 1992. Teachers who attended the workshop earned professional growth credit and were given a science kit for their classroom which contained supplies for conducting in-class science activities. A tour to Yucca Mountain, Nevada, was conducted on August 13, 1992, for the teachers.

Carl Gertz, Project Manager, gave a general overview presentation to the U.S. Council for Energy Awareness World Council on August 13, 1992, in Washington, D.C. Approximately 60 people attended.

IEA staff set up a general exhibit in support of the YMP Annual Safety Program Meeting which was held at the Desert Inn Hotel in Las Vegas, Nevada, on August 13, 1992. A. C. Robison provided an overview of the current project status.

A tour to Yucca Mountain was conducted on August 14, 1992, for William Young, Assistant Secretary for Nuclear Energy. Carl Gertz gave a general overview pretour and posttour briefing at the Las Vegas Yucca Mountain Information Office.

IEA staff set up and staffed a YMP exhibit, including a 10' x 20' display, at the State Fair in Reno, Nevada, August 12-16, 1992. Approximately 750 people are expected to visit the display.

IEA staff began planning and handling logistics for the Lincoln County Impact Alleviation Committee to tour the Hanford site in Richland, Washington, on August 31, 1992.

IEA staff began making arrangements for Lander County, Nevada, officials to tour the Waste Isolation Pilot Plant in Carlsbad, New Mexico, on September 1, 1992.

II. ANALYSIS & VERIFICATION DIVISION

The staff participated in a management review meeting, which was held August 11-12, 1992, in Washington, D.C. The purpose of the meeting was to discuss and resolve issues related to the Convergence Task. The staff also participated in an Expert Judgment Steering Committee Meeting which was held on August 14, 1992, in Las Vegas, Nevada. The objective of the Steering Committee is to develop a DOE workshop on the use of expert judgment in the Office of Civilian Radioactive Waste Management (OCRWM) program.

Two verification reviews for SPS were initiated: a verification review under Implementing Line Procedure (ILP) 22.3.1 for SP 8.3.1.4.3.1, "Systematic Acquisition of Site Specific Subsurface Information;" and a verification review under AP 1.10Q for SP 8.3.1.9.2.1, "Natural Resource Assessment of Yucca Mountain, Nye County, Nevada." Both verifications are due on August 31, 1992.

A verification review under ILP 22.3.1 for SP 8.3.1.8.2.1, "Analysis of Waste Package Rupture Due to Tectonic Processes and Events," was completed.

A technical review was initiated under AP 1.10Q for SP 8.3.1.17.4.4, "Quaternary Strike-Slip Faulting Proximal to the Site Within Northeast-Trending Fault Zones." The technical review is due on September 15, 1992.

The staff participated in resolution of RW-22 comments on Document Change Proposal (DCP) 62, Revision 2, of the OCRWM Systems Engineering Management Plan. They also participated in a teleconference on resolution of the Baseline Management Plan (DCP 63) comments.

III. GENERAL INFORMATION ITEMS

CRWMS M&O

The staff participated with CRWMS M&O/HQ in the development of the OCRWM Concept of Operations. The Mission 2001 exercise is nearing completion. The network schedule has been integrated to logically combine all participants' activities. Cost estimates will be finalized and a report will be issued by August 21, 1992.

Sandia National Laboratories

A series of experiments, designed to study the effects of nonstandard loading conditions on frictional properties, are being conducted. Four rock samples with fractures and five-to-seven replicates of each fracture have been tested for normal stiffness properties. They were then tested in shear with constant normal load or constant normal stiffness conditions.

Los Alamos National Laboratory (Los Alamos)

The National Environmental Policy Act of 1969 (42 USC 4321) categorical exclusion was granted by the DOE Albuquerque Field Office for the caisson experiment being conducted at Los Alamos.

The test planning package for the Fran Ridge Test Pits has been completed and the JP is being routed for signatures.

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>			
Friday, August 28	Program Management Meeting	Washington, DC	C. Gertz
B. <u>CRWMS M&O/DOE Meetings</u>			
Tuesday, August 18	Managers Monthly Review	Las Vegas, NV	M. Blanchard
Wednesday, August 26	Program Management Review	Vienna, VA	C. Gertz
C. <u>Internal and DOE/NV Meetings</u>			
Wednesday, August 19	NV Managers Monthly Program Review	Las Vegas, NV	C. Gertz
D. <u>NRC Interactions (P)</u>			
Tuesday, August 25	Technical Exchange - Resolution of Volcanism Related Concerns	Video- Conference	T. Bjerstedt
Thursday- Friday, September 17-18	Technical Exchange - Midway Valley and Site Visit	LV/NTS/YM	T. Bjerstedt
Tuesday, September 29	Technical Exchange - Functional Analysis of 10 CFR 60	San Antonio, TX	T. Bjerstedt
Thursday, October 29	Technical Exchange - Total System Performance Assessment	Albuquerque, NM	T. Bjerstedt

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
D. <u>NRC Interactions (P)</u> (Continued)			
Tuesday, November 17	Technical Exchange - Volcanism	Rockville, MD	T. Bjerstedt
Wednesday, November 18	Interaction Planning Meeting	Rockville, MD	T. Bjerstedt
E. <u>NWIRB Interactions (P)</u>			
Monday- Tuesday, September 14-15	NWIRB SG&G Panel Meeting	Las Vegas, NV	J. Cooper
Wednesday, September 16	NWIRB SG&G Field Trip	TBD	J. Cooper
Wednesday- Thursday, October 14-15	NWIRB Full Board Meeting	Las Vegas, NV	J. Cooper
Friday, October 16	NWIRB Yucca Mountain Site Tour	Las Vegas, NV	J. Cooper
Wednesday- Friday, November 4-6 (Tentative)	NWIRB SG&G Panel Meeting	Denver, CO	J. Cooper
Wednesday- Friday, November 18-20 (Tentative)	Workshop on Expert Judgment	Las Vegas, NV	A. Simmons
<u>1993</u>			
Tuesday- Wednesday, January 5-6	NWIRB Full Board Meeting	Arlington, VA	J. Cooper
February or March TBD	NWIRB HG&G Panel Meeting	TBD	J. Cooper
Tuesday- Friday, April 20-23	NWIRB Full Board Meeting	Reno, NV	J. Cooper

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
E. <u>NWTRB Interactions (P) (Continued)</u>			
<u>1993</u>			
Tuesday, June 1	NWTRB International Trip	TBD	J. Cooper
Monday- Thursday, July 12-15	NWTRB Full Board Meeting	Denver, CO	J. Cooper
Tuesday- Friday, October 19-22	NWTRB Full Board Meeting	Las Vegas, NV	J. Cooper

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
F. <u>State and Public Interactions</u>			
Tuesday, August 18	AMES Laboratory (Thomas J. Barton and Roland Strauss)	Las Vegas, NV	C. Gertz
Monday, August 31	Nuclear Information & Records Management Association Symposium	San Francisco, CA	C. Gertz
Thursday, September 3	American Business Women's Association	Las Vegas, NV	C. Gertz
Monday, September 14	Daughters of the American Revolution	Las Vegas, NV	R. Arnold
Thursday, September 17	American Nuclear Society	Lynchburg, VA	C. Gertz
Friday, September 18	Las Vegas Board of Realtors	Las Vegas, NV	A. Robison
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

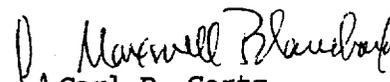
<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
F. <u>State and Public Interactions</u> (Continued)			
Wednesday, October 7	North American Tunneling Conference	Boston, MA	C. Gertz
Thursday, October 8	Massachusetts Institute of Technology (MIT)	Cambridge, MA	C. Gertz
Thursday, October 22	LV Chamber of Commerce	Las Vegas, NV	C. Gertz
Friday, October 30	Colorado School of Mines	Golden, CO	C. Gertz

<u>Date</u>	<u>Event</u>	<u>Location</u>
G. <u>Exhibits Scheduled</u>		
Thursday- Saturday, August 20-22	Nevada League of Cities	Winnemucca, NV
Saturday, August 22	Public Open House (P)	Las Vegas, NV
Friday- Sunday, August 28-30	White Pine County Fair	Ely, NV
Friday- Sunday, September 18-20	Home Show	Las Vegas, NV
Friday- Sunday, September 18-20	Pahrump Harvest Festival	Pahrump, NV
Saturday- Sunday, September 19-20	LLNL 40th Anniversary Family Open House	Livermore, CA
Saturday, September 26	Public Open House (P)	Las Vegas, NV

<u>Date</u>	<u>Event</u>	<u>Location</u>
G. Exhibits Scheduled (Continued)		
Sunday- Wednesday, September 27-30	American Institute of Professional Geologists	Lake Tahoe, NV
Friday- Sunday, October 2-11	Jaycees State Fair	Las Vegas, NV
Monday- Friday, October 5-9	Association of Engineering Geologists	Long Beach, CA
<u>Date</u>	<u>Event</u>	<u>Escorts</u>
H. Tours Scheduled		
Friday, August 21	Forrest Remick, Commissioner of NRC	C. Gertz
Friday, August 21	Greenpeace Coordinators	TBD
Saturday, August 22	Public Open House (P)	Various Escorts
Tuesday, August 25	Institute for Radiochemie	A. Simmons
Wednesday, August 26	Idaho Falls Post (Kevin Richard)	G. Fisher
Saturday, August 29	Native American Youths	V. Best G. Fasano
Wednesday, September 16	NWTRB	J. Cooper
Friday, September 18	NARUC	A. Robison
Saturday, September 26	Public Open House (P)	Various Escorts
Tuesday, October 6	Western Region Group	TBD

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
H. <u>Tours Scheduled</u> (Continued)		
Thursday, October 8	Realtor Association (Las Vegas Board of Realtors)	TBD
Tuesday, October 13	Senior Tripsters	TBD
Friday, October 16	NWTRB	J. Cooper
Saturday, October 17	Public Open House (P)	Various Escorts
Wednesday, November 18	Public Open House (P)	Various Escorts
Saturday, December 12	Public Open House (P)	Various Escorts

YMP:VFI-5080


Carl P. Gertz
Project Manager