



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

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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 14, 1991

SUBJECT: YUCCA MOUNTAIN PROJECT WEEKLY HIGHLIGHTS

Please find enclosed the above-referenced report for the weeks of July 26 and August 2, 1991.

There is nothing requiring specific management attention in the reports.

nan

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

AUG 02 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 26, 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 |
|--|-------------------|------------------|
| R0: Prepare plan for resolution of the U.S. Nuclear Regulatory Commission (NRC) Site Characterization Analysis Design Control Objection. | 3/15/91 | TBD |
| H2: Prepare transition plan from current document hierarchy to new document hierarchy (Management System Improvement Strategy [MSIS]). | 3/15/91 | TBD |

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H4: Letter transmittal to the NRC 3/31/91 9/91
 by the Office of Community
 Services 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.

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

| DELIVERABLE | NORTH AREA (81) | SOUTH AREA (107) |
|--|-----------------|------------------|
| Mock Up | COMPLETE | 107 |
| Computer-aided draft design (CADD) | COMPLETE | 100 |
| Check | COMPLETE | 90 |
| I-D Review | COMPLETE | 38 |
| Quality Assurance (QA) Sign Off | COMPLETE | - |

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 incorporated appropriate comments received during an OCRWM
 and U.S. Department of Energy/Headquarters (DOE/HQ) review ending
 July 12, 1991. A concurrence draft of PR 4 is in preparation.

SCP Comments

The Yucca Mountain Site Characterization Project Office (YMPO) is beginning a final screening and edit of the draft response package for the State of Nevada's September 1989 comments on the SCP. A full Integration Group (IG) Meeting that had been planned for July 30 - August 1, 1991, was cancelled at the IG Meeting on July 9 - 11, 1991. During July 30 - August 1, 1991, and the following week, YMPO/Technical and Management Support Services (T&MSS) staff will begin bringing the response package to maturity.

SCP Study Plan (SP) Status

STUDY PLAN BREAKDOWN

| | |
|--|----|
| In Screening Review | 0 |
| In Revision after Screening review | 1 |
| In YMPO and 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 |

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

Early Site Suitability Evaluation (ESSE)

On July 19, 1991, comment resolution was completed for the SP-2.3 (Review of T&MSS Technical Documents) review of the draft Report of Early Site Suitability Evaluation of the Potential Repository Site at Yucca Mountain, Nevada. During the period from July 20 - 26, 1991, the report will undergo revision and production for response verification and the Administrative Procedure (AP)-1.3 (Publications Review and Approval) review.

Prototype Drilling

Shakedown testing of the LM-300 drill rig near Salt Lake City, Utah, was interrupted on July 21, 1991, when it was discovered that the hydraulic cylinder of the pipe handling system had to be repaired.

The cylinder will be re-manufactured to have increased capability for handling the bending stresses associated with lifting the 1200 pound dual wall drill rods. Operations are expected to resume on August 5, 1991.

B. Environmental Programs

Environmental Compliance and Permitting

An Underground Injection Control (UIC) Permit Public Hearing was held July 16, 1991. After presentations by DOE and the State of Nevada there were no further comments or statements. The permit was signed that evening and given to YMPO on July 17, 1991.

A Federal District Court Hearing (DOE versus State of Nevada) was held July 17, 1991. Nevada petitioned the Federal District Court Judge to dismiss the case based on the state issuing the air and UIC permits. DOE petitioned the case be continued until after the water permit hearing. The Judge decided in DOE's favor. The case was continued until November 20, 1991.

C. Field Operations

Water hauling from Death Valley, California, to the site was completed this week. During the new work activity, total water delivered was 268,500 gallons. The total amount of water used for dust control for the work activities was 222,000 gallons. Presently stored on site are 46,500 gallons for start of other planned activities.

As a result of lessons learned during the new start of work, there are several procedures that will be revised or enhanced. These are AP-5.21Q, AP-3.5Q, and AP-5.36.

The road leading up to Yucca Mountain has been upgraded and stabilized by Reynolds Electrical & Engineering Co., Inc.

On July 23, 1991, the Nevada Bureau of Mines Geology continued sample examinations.

D. Project Planning and Control

Completed the production and distribution of Planning and Control System performance reports for June 1991. Participant analyses of cost, schedule, and at completion variances will be used for the first time in preparation of the quarterly Major Systems Acquisition report.

E. Quality Assurance Implementation

Yucca Mountain Quality Assurance Division (YMQAD) distributed preliminary drafts of the Quality Assurance Requirements and Policy Document for information and informal review.

YMQAD is evaluating Lawrence Livermore National Laboratory responses to Corrective Action Reports issued as a result of the previous audit.

F. Major Oversight Group Meetings

Planning and Budget and Technical Project Officer (TPO) Meetings were held in Las Vegas, Nevada, on July 25-26, 1991.

G. Public Outreach Activities

Coordinated a presentation for YMPO to present at the TPO Meeting on July 25, 1991.

Office of Institutional and Environmental Affairs staff worked with YMPO staff to draft responses to recent articles in the print media.

Continued drafting fact sheets and planning and organizing the opening reception activities for the Climax Mine Spent Fuel Test Exhibit at the Yucca Mountain Information Office, Las Vegas, Nevada.

Continued to assist YMPO staff draft a response to the Institutional-related recommendation by the Nuclear Waste Technical Review Board (NWTB) in their Third Report to the U.S. Congress.

Prepared presentation and hand-out material for a project overview presentation given on July 22, 1991, to the Clark County School District School-Community Partnership Program. Approximately 25 elementary school teachers participated in the program. Participants were given a tour of the Yucca Mountain Information Office, Las Vegas, Nevada, a project overview presentation by Carl Gertz, and presentations in Geology, Environmental Health, and Educational Outreach.

A tour to Yucca Mountain was conducted on July 24, 1991, for the U.S. Bureau of Land Management. Prior to their departure, participants were given a brief project overview at the Yucca Mountain Information Office, Las Vegas, Nevada, by Stanley Simms, T&MSS/Science Applications International Corporation (SAIC) and a presentation on environmental issues by Greg Fasano, T&MSS/SAIC.

H. Systems Management and Integration

Management System Improvement Strategy

Participating in a review of the ESF Physical Systems Document.

Technical Data Management

Two days were spent with TRW Environmental Safety Systems personnel explaining the current status of the Technical Data Management System and touring the facilities. Discussions at the July 18, 1991, Technical Data Advisory Group Meeting centered on the proposed changes to the Automated Technical Data Tracking System, the status of the Locations Working Group, and the status of the Parameter Dictionary and Technical Data Base Handbook. In addition, some time was spent discussing the GEMBOCHS data base. As an outgrowth of that discussion, a working group will be formed next fiscal year to evaluate the possibility of a separate YMP module within GEMBOCHS.

Geochemistry

A discussion occurred between Los Alamos National Laboratory (LANL) and Lawrence Berkeley Laboratory personnel concerning field testing in Calico Hills. Follow-up meetings concerning the field testing of Calico Hills will occur in the next few months. LANL personnel presented information to the State of Nevada regarding the tracer injection permits for the C-well complex.

Geographic Information System (GIS)

The Locations Working Group has completed the initial phase of its task. A standard listing of drill hole names and locations has been completed and will be provided to the Site and Engineering Properties Data Base. Any changes to that standard list will be controlled by EG&G.

A strawman Site Atlas will be put together and circulated to the participants for comment. A projected distribution date for the final product has been set for late January 1992.

A meeting was held with personnel from the Operations Control Branch to discuss inclusion of all environmental study sites in the GIS. This will establish a much more complete basis for coordinating siting of roads, facilities, and new surface investigations.

II. ANALYSIS & VERIFICATION DIVISION

Participated in a workshop on Natural Analogs at the Center for Nuclear Waste Regulatory Analysis on July 23 - 25, 1991, in San Antonio, Texas.

Attended the Advisory Committee on Nuclear Waste Meeting and briefing to NRC on the use of expert judgment, integration of geophysics into site characterization, and dealing with uncertainties in implementing U.S. Environmental Protection Agency standard. The meetings were held on July 25 - 26, 1991, in Bethesda and Rockville, Maryland.

Participated in the National Academy of Sciences Committee on Rock Mechanics writing workshop on fracture characterization and fluid flow on July 24 - 26, 1991, in Tahoe City, California.

Participated in an information meeting on INFOSTREAM with the Information Management Division, Office of Programs and Resources Management on July 25, 1991, in Washington, D.C.

Completed verification review under the AP-1.10Q procedure for Study Plan 8.3.1.2.1.4, "Regional Hydrologic Synthesis and Modeling."

Initiated technical review under the AP-1.10Q procedure for Study Plan 8.3.1.14.2, "Study Plan to Provide Soil and Rock Properties for Potential Locations of Surface Facilities and Subsurface Access Facilities, R0."

Initiated review of the preliminary draft license application annotated outline for the mined geologic disposal system. Comments are due July 29, 1991.

Reviewed the minutes of the Experts Discussion Section of the Engineered Barrier System Concepts Workshop as prepared by YMPO. The workshop was held June 20, 1991.

Initiated review of the NRC's Draft Technical Position on "Geologic Repository Operations Area Underground Facility Design - Thermal Loads."

III. GENERAL INFORMATION ITEMS

Technical and Management Support Services

Provided input to the Energy Systems Acquisition Advisory Board on the pre-meeting agenda and contents of the section requiring ESF design and underground testing.

The DOE Office in Albuquerque, New Mexico, has proposed an appraisal system for Sandia National Laboratories. YMP is participating in the development of the process and the goals for the initial period. T&MSS assisted in the evaluation of the proposed appraisal system during this period.

Prepared a DOE/Engineering and Development Division presentation for the Management Review of the South Area Design Studies.

Raytheon Services Nevada

The letter announcing the July 29, 1991, Management Review of the South Area Design Studies was sent out and received by participants.

Completed Repository/ESF interface drawings.

Los Alamos National Laboratory

Participated in comment resolution on the MSIS, ESF Physical Systems Document.

U.S. Geological Survey (USGS)

USGS reviewed and provided comments to document coordinators on the draft Quality Assurance Requirements and Policy Document.

Representatives from USGS attended a Quality Integration Group meeting in San Diego, California.

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/HQ Meetings</u> | | | |
| Thursday, August 8 | Program Management Meeting | Washington, DC | C. Gertz |
| B. <u>Internal and DOE/NV Meetings</u> | | | |
| Thursday, July 25 | TPO Meeting | Las Vegas, NV | C. Gertz |
| Friday, July 26 | Planning & Budget Meeting | Las Vegas, NV | C. Gertz |
| C. <u>NRC Interactions</u> | | | |
| 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 |

| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>YMPO Contact</u> |
|---|--|---------------------------------|---------------------|
| D. <u>NWTRB Interactions (P)</u> | | | |
| 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 |
| TBD | 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 | Las Vegas, NV | 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 Borehole Sealing and Backfilling, and ESF Design | Dallas, TX | A. Simmons |
| E. <u>State and Public Interactions</u> | | | |
| 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 |

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| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>Speaker</u> |
|--|---|------------------------------|----------------|
| E. <u>State and Public Interactions</u> (continued) | | | |
| 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 |
| Tuesday, September 24 | YM Lecture Series "Volcanoes" (P) | Las Vegas, NV | B. Crowe |
| Thursday, September 26 | YM Lecture Series "Volcanoes" (P) | Nye County Community Ctr. | B. Crowe |
| 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 |
| Thursday, October 17 | YM Lecture Series "Environment" (P) | Nye County Community Ctr. | G. Fasano |
| Friday, October 18 | Discover Nevada Conference | Las Vegas, NV | C. Gertz |
| Tuesday, October 29 | YM Lecture Series "Environment" (P) | Las Vegas, NV | G. Fasano |

F. Exhibits Scheduled

| <u>Date</u> | <u>Event</u> | <u>Location</u> |
|---------------------------------------|-----------------------|-----------------|
| Wednesday- Monday, August 14-19 | Nevada State Fair (P) | Reno, NV |

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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 |

G. Tours Scheduled

| <u>Date</u> | <u>Event</u> | <u>Escorts</u> |
|------------------------|--------------------------------|------------------------|
| 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 |



Carl F. Gertz
Project Manager

YMP:DLH-4964



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

AUG 08 1991

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

OFFICE OF GEOLOGIC DISPOSAL WEEKLY HIGHLIGHTS FOR THE WEEK ENDING
AUGUST 2, 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 |
|--|-------------------|------------------|
| R0: Prepare plan for resolution of the U.S. Nuclear Regulatory Commission (NRC) Site Characterization Analysis Design Control Objection. | 3/15/91 | TBD |
| H2: Prepare transition plan from current document hierarchy to new document hierarchy (Management System Improvement Strategy). | 3/15/91 | TBD |
| H4: Letter transmittal to the NRC by the Office of Systems & Compliance 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.

Site Characterization Plan (SCP) Progress Report (PR)

A concurrence draft on PR 4 was sent to OCRWM and U.S. Department of Energy/Headquarters (DOE/HQ) on July 31, 1991, for approval. Release date for PR 4 is contingent on the progress of OCRWM's concurrence.

SCP Comments

The Yucca Mountain Site Characterization Project Office (YMPO) is beginning a final screening and edit of the draft response package for the State of Nevada's September 1989 comments on the SCP to bring the response package to maturity. A subset of response requiring further OCRWM review will be identified this week and sent to RW-2 on August 5, 1991.

SCP Study Plan (SP) Status

STUDY PLAN BREAKDOWN

| | |
|---|----|
| In Screening Review | 0 |
| In Revision after Screening Review | 1 |
| In YMPO and 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 |
| <hr/> | |
| Received Comments from the State of Nevada | 5 |
| Response Transmitted to the State of Nevada | 2 |
| <hr/> | |
| Received Comments from the NRC | 8 |
| Responses Transmitted to HQ | 3 |
| Responses Awaiting HQ Transmittal to NRC | 1 |
| Responses Transmitted to NRC | 2 |

Early Site Suitability Evaluation (ESSE)

The draft Early Site Suitability Evaluation Report was revised after completion of the Technical and Management Support Services (T&MSS) SP 2.3 review and is currently in review by YMPO. YMPO is conducting an AP-1.3 review, which is expected to result in

approval to release the draft report to an external peer review panel on August 15, 1991. Review comments have been constructive and have resulted in significant improvements to the report. In general, the comments have indicated the report is well-written and communicates clearly.

Prototype Drilling

Shakedown testing of the LM-300 drill rig near Salt Lake City, Utah, will resume Monday, August 5, 1991. The pipe handling system design has been improved and operations should be back to normal. Initial activity will consist of coring during a short interval prior to returning to hammer drilling to obtain the required depth for the shakedown test. Additional coring is still planned for the end of the program as the drilling approaches the total planned depth of 2,000 feet. The program has been extended an additional five days to allow for completion of all tests.

B. Environmental Programs

Environmental Compliance and Permitting

The second interrogatories were received from the State of Nevada concerning the YMPO water appropriation permit application hearing. Responses are being prepared and preparations for the hearing continue.

C. Field Operations

The YMP Site Manager and staff participated in and provided support for a tour of the Yucca Mountain Site by the U.S. Bureau of Land Management.

The YMP Site Manager and Safety Engineer performed an internal review of the ESF south portal ramp design. Comments were given to the Engineering and Development Division Manager.

The YMP Site Manager is finalizing preparations for the August 9, 1991, safety campaign kick-off meeting to be held at the Desert Inn Country Club in Las Vegas, Nevada. The guest speaker will be Ray Clason, Director of Regulatory Policy of the Occupational Safety and Health Administration, Washington, D.C.

The Field Operations staff is in the process of preparing and finalizing several new Field Operating Instructions including occupational medicine, size of barricades, industrial hygiene, etc.

Tours of the Sample Management Facility (SMF) were conducted for two groups on July 31, 1991: DOE/HQ and the Geochemistry Integration Seminar Group.

Sample Examinations were conducted at the SMF by Nevada Bureau of Mines Geology; Barbara Carlos, David Broxton and David Vaniman, Los Alamos National Laboratory (LANL); and Wunan Lin, Lawrence Livermore National Laboratory (LLNL).

D. Project Planning and Control

The Project Planning and Control staff developed additional cost and schedule baseline data in preparation for the pre-Energy Systems Acquisition Advisory Board Meeting to be held in Washington, D.C., next week.

E. Quality Assurance (QA) Implementation

The Yucca Mountain Quality Assurance Division conducted an audit of Raytheon Services Nevada (RSN) during the week of July 29 - August 2, 1991. All applicable elements of the QA program were audited.

F. Major Oversight Group Meetings

No major meetings this week.

G. Public Outreach Activities

On Tuesday, July 30, 1991, a reception was held at the Yucca Mountain Information Office, Las Vegas, Nevada, to mark the official opening of the Climax Mine Spent Fuel Test Exhibit. Approximately 100 guests attended the reception, toured the exhibit, and listened to keynote speaker William Beam speak on Mining Cultures of the American Southwest.

Tours to Yucca Mountain were conducted on July 31, 1991, for the Geochemical Technical Exchange and for Scott Peterson, American Nuclear Energy Council.

The Yucca Mountain lecture series, "Mining Cultures of the American Southwest," was presented by William Beam at the Yucca Mountain Information Office, Beatty, Nevada, on Thursday, August 1, 1991.

H. Systems Management and Integration

Management System Improvement Strategy

A review of the ESF Physical Systems Document is in progress.

Technical Data Management

A technical exchange with NRC on Data Management took place on July 30, 1991. Topics discussed included the Automated Technical Data Tracking System (ATDT), production of the quarterly Data Catalog, Technical Data Base initiatives, the Reference Information Base, and the Technical Data Base (TDB) - Geographic Information System (GIS).

Revised procedures for the ATDT and TDB have been submitted to the Plans and Procedures Division for review. The procedure changes will take advantage of the telecommunications links to the participants and provide for on-line access to the system for updates and queries.

Geochemistry

On July 29-31, 1991, DOE held its first internal quarterly geochemistry integration meeting at the Field Operations Center of the Nevada Test Site. The main focus of the meeting was on groundwater geochemistry and the consideration of topics such as what water compositions to use for the conceptual model of groundwater chemistry, the influence of the soil zone on groundwater chemistry, the impact of the waste package on potential changes in groundwater chemistry, and other related topics. The meeting included participants from LANL, Pacific Northwest Laboratory, LLNL, Sandia National Laboratories (SNL), and the U.S. Geological Survey (USGS). Also, at this meeting the geochemistry integration core team was established and chartered; the topic and date for the next quarterly meeting were discussed. Information from this meeting will be shared with all participants.

Geographic Information System

A briefing and tour of the GIS facility were provided to the NRC. Additional briefings were provided to TRW Environmental Safety Systems personnel who may require products from the TDB.

A meeting was held with USGS personnel to discuss the various coverages which have been or will be digitized at each facility. Lists of existing coverages were exchanged, and requirements for submitting the data to the TDB were discussed.

II. ANALYSIS & VERIFICATION DIVISION

Participated in a YMPO AP-1.3 management review prior to public release of the Science Applications International Corporation ESSE document on July 31 - August 1, 1991, in Las Vegas, Nevada.

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A concurrence review was conducted of responses to recommendations in the third Nuclear Waste Technical Review Board (NWTB) Report.

Participated in the American Society for Testing and Materials Subcommittee Meetings on testing of repository waste forms and engineered barrier materials in Colorado Springs, Colorado, on July 27 - August 1, 1991.

Reviewed the NRC Draft Technical Position on "Geologic Repository Operations Area Underground Facility Design—Thermal Loads."

Participated in an informal DOE working session discussion of a draft paper titled "Potential Non-Risk Related Impacts of Actinide Burning on the Repository."

III. GENERAL INFORMATION ITEMS

T&MSS

A report was submitted to YMPO on July 31, 1991, documenting the development of the Reference Design Concept.

DOE/Engineering and Development Division completed a presentation for the Management Review of the South Area Design Studies and also provided a document hierarchy briefing.

RSN

An external Quality Assurance Audit is being conducted to evaluate RSN's QA program for compliance with OCRWM requirements and commitments.

LANL

A meeting with SNL and USGS on the Test Planning Package was completed and information was gathered to close out the 91-5 Document.

Comments were received from the 06-04 YMP Review of the Tracer System Plan and comment resolution in process.

LLNL

The Technical Assessment Review was completed for the Waste Acceptance Preliminary Specifications for vitrified high level waste forms document.

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| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>YMPO Contact</u> |
|---|--|-------------------|---------------------|
| A. <u>DOE/EQ Meetings</u> | | | |
| Thursday, August 8 | Program Management Meeting | Washington, DC | C. Gertz |
| B. <u>Internal and DOE/NV Meetings</u> | | | |
| No meetings scheduled. | | | |
| C. <u>NRC Interactions</u> | | | |
| Tuesday, July 30 | NRC TE on Data Management | Las Vegas, NV | J. Cooper |
| Wednesday- Thursday, August 7-8 | NRC SV on Waste Form: Glass | Savannah River | J. Cooper |
| Thursday, August 20 | NRC TE on ESF Design Control Process | Washington, DC | 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 | Las Vegas, NV | 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 |

| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>YMPO Contact</u> |
|---|--|--------------------------|---------------------|
| D. <u>NWTRB Interactions (P)</u> | | | |
| 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 |
| TBD | 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 | Las Vegas, NV | 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 Borehole Sealing and Backfilling, and ESF Design | Seattle, WA | A. Simmons |
| E. <u>State and Public Interactions</u> | | | |
| Saturday, August 10 | Cub Scout Pack #209 | Info Office Las Vegas | E. Harle |
| Tuesday, August 13 | Americana Group Realtors | Las Vegas, NV | C. Gertz |
| Wednesday, August 14 | American Business Women's Association | Las Vegas, NV | A. Gil |

| <u>Date</u> | <u>Event</u> | <u>Location</u> | <u>YMPO Contact</u> |
|--|---|------------------------------|---------------------|
| E. <u>State and Public Interactions</u> (continued) | | | |
| 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 |
| Tuesday, September 24 | YM Lecture Series "Volcanoes" (P) | Las Vegas, NV | B. Crowe |
| Thursday, September 26 | YM Lecture Series "Volcanoes" (P) | Nye County Community Ctr. | B. Crowe |
| Monday, September 30 | Focus '91 Nuclear Waste Packaging | Las Vegas, NV | C. Gertz |
| Tuesday, October 15 | Inyo County Republican Women, Federated | Bishop, CA | C. Gertz |
| Thursday, October 17 | YM Lecture Series "Environment" (P) | Nye County Community Ctr. | G. Fasano |
| Friday, October 18 | Discover Nevada Conference | Las Vegas, NV | C. Gertz |
| Tuesday, October 29 | YM Lecture Series "Environment" (P) | Las Vegas, NV | G. Fasano |

F. Exhibits Scheduled

| <u>Date</u> | <u>Event</u> | <u>Location</u> |
|---|-------------------------------------|-----------------|
| Wednesday- Monday, August 14-19 | Nevada State Fair (P) | Reno, NV |
| TBD | Lincoln County Fair (P) | Panaca, NV |
| Saturday- Monday, August 31- September 2 | Pioche Labor Day (P) Celebration | Pioche, NV |

John W. Bartlett

-10-

F. Exhibits Scheduled (continued)

| <u>Date</u> | <u>Event</u> | <u>Location</u> |
|--|------------------------|------------------|
| 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 |

G. Tours Scheduled

| <u>Date</u> | <u>Event</u> | <u>Escorts</u> |
|---------------------------|-----------------------|--------------------------|
| Wednesday, August 14 | ESSE Task Force | M. Voegele J. Younker |
| Tuesday, August 20 | Congressional Staff | 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 |


 For Carl P. Gertz
 Project Manager

YMP:DLH-5073

CC:

H. H. Brandt, HQ (RW-13) FORS
 J. C. Bresee, HQ (RW-10) FORS
 S. J. Brocoum, HQ (RW-22) FORS
 B. A. Cerny, HQ (RW-12) FORS