



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

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TO: John J. Linehan, Acting Chief, HLOB, M/S 4-H-3
FROM: Paul T. Prestholt, Sr. On-Site Licensing Representative
DATE: July 13, 1988
SUBJECT: DOE WEEKLY REPORTS

Please find enclosed the above-referenced reports received in this office, i.e., for weeks ending June 24, July 1, and July 8, 1988. There is nothing special to note.

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Enclosure
cc: King Stablein w/enc.

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Department of Energy

Nevada Operations Office
P. O. Box 98518
Las Vegas, NV 89193-8518

JUN 29 1988

Stephen H. Kale, Acting Associate Director, Facilities Siting and Development,
HQ (RW-20) FORS

NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS (NNWSI) PROJECT WEEKLY HIGHLIGHTS
FOR THE WEEK ENDING JUNE 24, 1988

I. Critical Items Status

A. Site Characterization Plan (SCP)

The Program Review Group (PRG) presented a status report on the SCP Completion Process to U.S. Department of Energy (DOE) managers (Carl Gertz, Steve Kale, and Ralph Stein) in Denver on Tuesday. This briefing included presentations and discussions of the Phase I Importance Assessments; progress made in establishing cost and schedule for SCP activities; preliminary analyses of risks in meeting the Mission Plan Amendment schedule for license application; status of the proposed response to the U.S. Nuclear Regulatory Commission (NRC) Objection #1 (alternative conceptual models) status of Exploratory Shaft Facility (ESF) performance analysis and the revision of SCP Section 8.4; and the detailed schedule for SCP Completion.

Working Groups (WGs) 1-6 continued working on the resolution of NRC and U.S. Geological Survey (USGS) comments on the SCP Consultation Draft. Present plans call for completed text mark-ups addressing the comments to be completed by July 8. The WGs also continued changes to the SCP activity schedule networks based on comments from Integration Group reviews of the networks.

WG 7 continued working on revisions to SCP Section 8.4.

WG 8 held a meeting in Las Vegas on Friday, to review second drafts of Tables and to coordinate SCP text revisions addressing alternative conceptual models.

Conversion of the SCP Consultation Draft from IT*OS to WPS+ continued this week. The text and Tables of Chapters 1-7 have been converted and proofed. Chapter 8 is converted and proofing has started; conversion of the Tables has been initiated. At the present time, the conversion process is on schedule for a July 1 completion date.

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Planning for production of the Statutory SCP continued this week.

There was no change in Study Plan status this week. Twelve draft study plans are currently in review. One Study Plan is undergoing revision by the participant. Six Study Plans have been submitted to DOE/Headquarters (HQ) for review and three Study Plans are pending review. Two Study Plans are in review at the NRC: (1) Excavation Investigations, Study 8.3.1.15.1.5; and (2) Water Movement Tracer Tests Using Chloride and Chlorine-36 Measurements of Percolation at Yucca Mountain, Study 8.3.1.2.2.2.

Future Study Plans will be on hold until DOE/HQ procedures for Study Plan review are finalized.

DOE/HQ has provided tentative dates for comment resolution meetings for the following three Study Plans:

8.3.1.3.2.1	Mineralogy, petrology, and chemistry along transport pathways	July 12
8.3.1.2.3.1.7	Characterization of the site saturated-zone ground-water flow system, Activity 7	July 20
8.3.1.15.1.3	Laboratory determination of the mechanical properties of intact rock	July 6-7

The present status of Study Plans is as follows:

Quality Check	0
Project Review	0
Participant Revisions	1
Parallel PO & DOE/HQ Review	0
DOE/HQ Pending	3
DOE/HQ Review	3
Comment Resolution Check	0
DOE/HQ Approval Pending	3
NRC Review	<u>2</u>
Total	12

B. Core Sample Management

Staff at the Sample Management Facility continued work on the Curatorial Sample Inventory and Tracking System prototype screens. Background on Gamma Logging for core (surface application) was researched. A roller microscope table has been designed.

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The inventory of samples in the USGS Core Library is continuing. The totals as of June 20 consist of 19 boreholes with 26 boxes of cuttings, 137 pieces of core sealed in PVC pipe, 1563 boxes of core, 87 waxed samples of core, and 8 miscellaneous samples.

C. Quality Assurance

Audit 88-4 of the USGS/Denver was completed June 24, 1988. Twenty-two Standard Deficiency Reports are being initiated by the audit team as a result of the audit.

II. Significant Accomplishments/Information Items

DOE/HQ has requested bimonthly status meetings on the waste package program. The first will be in Las Vegas on July 13. The location will alternate between Las Vegas and Washington, D.C.

DOE managers were briefed on the Multiple Purpose Borehole (MPBH) in Denver on Tuesday. The briefing indicated that two MPBH, down dip from each shaft, can be drilled without impact on the existing ESF construction schedule. A DOE/Nevada managers' meeting was also held on Tuesday in Las Vegas.

On Friday, a Seismic Cost-Benefit Assessment of Surface Facilities meeting was held in Washington, D.C. Representatives from DOE/HQ and Weston were in attendance and a staff member from SNL made a presentation on work completed in connection with the assessment. Also on Friday, an NRC ESF meeting was held in Las Vegas.

III. Upcoming Events

	<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
A.		<u>Coordinating Group Meetings</u>		
		None to report.		
B.		<u>HQ Meetings</u>		
		None to report.		

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C. Internal Project and DOE/Nevada Operations Office (NV) Meetings

Thursday, June 30	ESF Interface Control Working Group meeting	Las Vegas, NV	D. Irby, WMPO
Tuesday - Wednesday, July 5-6	Project Managers/ Technical Project Officers meeting	Las Vegas, NV	J. Fiore, SAIC
Wednesday, July 6	Sample Overview Committee meeting	Las Vegas, NV	U. Clanton, WMPO
Wednesday, July 13	Status meeting on the Waste Package Program	Las Vegas, NV	R. Morrisette SAIC
Friday, July 15	WMPO Branch Chief status meeting	Las Vegas, NV	C. Garvin, SAIC
Thursday - Friday, July 28-29	Project Managers/ Technical Project officers meeting	Las Vegas, NV	J. Fiore, SAIC
Tuesday, July 19	DOE/NV Manager's meeting	Las Vegas, NV	V. Davis, WMPO

D. State and Public Interaction

Monday, June 27	Branch chief will give presentation at Hawthorne town meeting	Hawthorne, NV	W. Dixon, WMPO
Wednesday, July 13	Project Manager speaks at mock senate hearing performed by youth group	Carson City, NV	V. Davis, WMPO

E. U.S. Nuclear Regulatory Commission Interaction

Monday-Tuesday, June 27-28	U. S. Nuclear Regu- latory Commission Advisory Committee on Nuclear Waste meeting	Washington, D.C.	L. Skousen, WMPO
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F. Other

None to report.

WMPO:SAC-2520

Mitchell
for Carl P. Gertz, Project Manager
Waste Management Project Office



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JUL 07 1988

NN1.880707.0033

Stephen H. Kale, Acting Associate Director, Facilities Siting and Development,
HQ (RW-20) FORS

NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS (NNWSI) PROJECT WEEKLY HIGHLIGHTS
FOR THE WEEK ENDING JULY 1, 1988

I. Critical Items Status

A. Site Characterization Plan (SCP)

Working Groups (WGs) 1-6 continued working on the resolution of U.S. Nuclear Regulatory Commission (NRC) and U.S. Geological Survey (USGS) comments on the SCP Consultation Draft. Present plans call for the completed text mark-ups addressing the comments to be completed by July 8. The WGs also continued changes to the SCP activity schedule networks based on comments from the Integration Group (IG) reviews of the networks. WG 7 continued working on revisions to SCP Section 8.4 and WG 8 continued preparation of text and tables addressing alternative conceptual models.

Conversion of the SCP Consultation Draft from IT*OS to WPS+ is complete. Proofreading of the text and tables continues.

Planning for production of the Statutory SCP continued this week.

A meeting was held on Tuesday in Washington, D.C. for U.S. Department of Energy (DOE) technical staff, and representatives from the project office and project participants. The purpose of the meeting was to familiarize all potential reviewers of Study Plans with the new approach being developed for the review of Study Plans. This meeting was a prototype of the required quality assurance (QA) training for Study Plan reviewers that will be required when the Standard Operating Procedures for study plans are officially adopted as part of the DOE/Headquarters (HQ) QA program.

There was no change in Study Plan status this week. Twelve draft Study Plans are currently in review. One Study Plan is undergoing revision by the participant; six have been submitted to DOE/HQ for review; and three are pending review. Two study plans are in review at the NRC: (1) Excavation Investigation, Study 8.3.1.15.1.5; and (2) Water Movement Tracer Tests Using Chloride and Chlorine-36 Measurements of Percolation at Yucca Mountain, Study 8.3.1.2.2.2.

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Future Study Plans will be on hold until DOE/HQ procedures for Study Plan review are finalized.

The present status of Study Plans is as follows:

Quality Check	0
Project Review	0
Participant Revisions	1
Parallel PO & DOE/HQ Review	0
DOE/HQ Pending	3
DOE/HQ Review	3
Comment Resolution Check	0
DOE/HQ Approval Pending	3
NRC Review	<u>2</u>
Total	12

B. Core Sample Management

The inventory of samples in the USGS Core Library is continuing. The totals as of June 28 consist of 20 boreholes with 26 boxes of cuttings, 137 pieces of core sealed in PVC pipe, 1,761 boxes of core, 87 waxed samples of core, and 8 miscellaneous samples.

C. Quality Assurance (QA)

An audit team meeting was held on Wednesday to discuss the Sandia National Laboratories (SNL) audit (88-5) preparations and assignments. The technical specialists were indoctrinated and trained in accordance with QMP-02-02.

A meeting is scheduled on July 7, 1988, with DOE/HQ and the NRC to discuss QA open items. The open items list was developed from correspondence between the two agencies. The meeting will focus on resolution of the open items and establishing a schedule to complete action required to close the issues.

An Impact Review of the Waste Management Project Office (WMPO) Quality Assurance Program Plan (QAPP) against the NNWSI Projects QA Plan has been completed. The draft QAPP is being prepared and is currently scheduled to be placed into formal review process by July 8.

Surveillance No. WMPO-SR_88-010 of the WMPO Management System has been completed and the report was issued this week.

II. Significant Accomplishments/Information Items

On Monday, Wendy Dixon (Branch Chief, WMPO) gave a presentation on the status of the Waste Program at a Hawthorne, Nevada, town meeting. The meeting was well received by the Hawthorne residents attending. Also, Carl Gertz gave an update on the Yucca Mountain Project to the Pyramid Indian Tribe in Nixon, Nevada, on Friday.

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A meeting of the NRC Advisory Committee on Nuclear Waste was held on Monday and Tuesday in Washington, D.C. Representatives of DOE/HQ and the project participants made presentations to the committee on Advanced Conceptual Design Models for Yucca Mountain.

Los Alamos National Laboratory has submitted the "NNWSI Project Exploratory Shaft Facility Integrated Data System Title I Preliminary Design" to WMPO for review. This satisfies Milestone T077. Milestone P214 has also been completed by the revision of the SNL document "Analysis to Evaluate the Effect of the Exploratory Shafts on Repository Performance at Yucca Mountain."

The results of a meeting, held last week between representatives of SNL and Lawrence Livermore National Laboratory at WMPO, have been made available. The purpose of the meeting was to discuss the status of pre-Advanced Conceptual Design Studies and to determine if all of the studies can be completed by October 1989. The preliminary assessment was that most of the studies will be completed. A more complete assessment is scheduled to be discussed at the next Design Interface Group meeting on July 14-15.

III. Upcoming Events

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
A. <u>Coordinating Group Meetings</u>			
None to report.			
B. <u>HQ Meetings</u>			
Thursday, July 7	Plans and Procedures of OCRWM and NNWSI Project QA Programs meeting.	Rockville, MD	J. Blaylock, WMPO
Monday, July 18	Technical meeting on the ESF	Rockville, MD	D. Irby, WMPO
C. <u>Internal Project and DOE/Nevada Operations Office (NV) Meetings</u>			
Tuesday - Wednesday, July 5-6	Project Managers/ Technical Project Officers meeting	Las Vegas, NV	J. Fiore, SAIC
Wednesday, July 6	Sample Overview Committee meeting	Las Vegas, NV	U. Clanton, WMPO
Wednesday, July 13	Status meeting on the Waste Package Program	Las Vegas, NV	R. Morrisette SAIC
Friday, July 15	WMPO Branch Chief status meeting	Las Vegas, NV	C. Garvin, SAIC

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C. Internal Project and DOE/Nevada Operations Office (NV) Meetings (cont)

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
Monday, July 25	QA Audit of SNL	Albuquerque, NM	J. Blaylock, WMPO
Thursday - Friday, July 28-29	Project Managers/ Technical Project Officers meeting	Las Vegas, NV	J. Fiore, SAIC
Tuesday, July 19	DOE/NV Manager's meeting	Las Vegas, NV	V. Davis, WMPO
Tuesday, August 2	ESF Interface Control Working Group Meeting	Las Vegas, NV	V. Davis, WMPO

D. State and Public Interaction

Wednesday, July 13	Project Manager speaks at mock senate hearing performed by youth group	Carson City, NV	V. Davis, WMPO
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E. U.S. Nuclear Regulatory Commission Interaction

None to report.

F. Other

None to report.



Carl P. Gertz, Project Manager
Waste Management Project Office

WMPO:SAC-2776



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JUL 08 1988

NNI-880708-0006

Stephen H. Kale, Acting Associate Director, Facilities Siting and Development,
HQ (RW-20) FORS

NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS (NNWSI) PROJECT WEEKLY HIGHLIGHTS
FOR THE WEEK ENDING JULY 8, 1988

I. Critical Items Status

A. Site Characterization Plan (SCP)

Working Groups (WGs) 1-6 continued working on the resolution of U. S. Nuclear Regulatory Commission (NRC) and U. S. Geological Survey (USGS) comments on the SCP Consultation Draft. The WGs also continued changes to the SCP Activity schedule networks based on comments from the Integration Group (IG) reviews of the networks.

WG 7 continued working on revisions to SCP Section 8.4. A meeting to discuss the Systematic Drilling Program was held in Corvallis, Oregon, on Wednesday.

WG 8 continued preparation of text and tables addressing alternative conceptual models; progress is slow because of competing assignments for existing staff.

Planning for production of the Statutory SCP continued this week. An SCP production management group meeting is scheduled for Monday, July 11, to finalize production planning.

A comment resolution meeting was held with the U. S. Department of Energy/Headquarters (DOE/HQ) on Wednesday and Thursday in Washington, D.C., on Study Plan 8.3.1.15.1.3, Laboratory Determination of the Mechanical Properties of Intact Rock.

Conversion of the SCP Consultation Draft from IT*OS to WPS+ has been completed. Proofreading of the text and tables continues and is expected to be completed within two weeks.

There was no change in Study Plan status this week. Twelve draft Study Plans are currently in review. One Study Plan is undergoing revision by the participant; six have been submitted to DOE/HQ for review; and three are pending review. Two Study Plans are in review

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at the NRC: (1) Excavation Investigations, Study Plan 8.3.1.15.1.5; and (2) Water Movement Tracer Tests Using Chloride and Chlorine-36 Measurements of Percolation at Yucca Mountain, Study Plan 8.3.1.2.2.2.

Future Study Plans will be on hold until DOE/HQ procedures for study plan review are finalized.

The present status of Study Plans is as follows:

Quality Check	0
Project Review	0
Participant Revisions	1
Parallel PO & DOE/HQ Review	0
DOE/HQ Pending	3
DOE/HQ Review	3
Comment Resolution Check	0
DOE/HQ Approval Pending	3
NRC Review	<u>2</u>
Total	12

B. Core Sample Management

A Sample Overview Committee meeting was held on Thursday in Las Vegas at the Waste Management Project Office (WMPO). The topics discussed were: an update of the core transfer, the vertical seismic profile borehole, the multipurpose borehole, and participant response to qualifying existing core.

The inventory of samples in the USGS Core Library is continuing. The totals as of July 4 consist of 20 boreholes with 26 boxes of cuttings, 137 pieces of core sealed in PVC pipe, 1,839 boxes of core, 87 waxed samples of core, and 8 miscellaneous samples.

C. Quality Assurance (QA)

WMPO QA staff met with representatives of the NRC on Thursday and Friday in Rockville, Maryland, to discuss NRC comments on the NNWSI Project QA Plan.

A surveillance was conducted last week at Los Alamos National Laboratory to verify corrective actions on two Standard Deficiency Reports (SDRs). The work was not completed at the time of the surveillance and verification was considered unsatisfactory; therefore, Revision 1 is being issued to these SDRs.

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An audit report has been prepared on the audit of USGS/Menlo Park that was conducted on April 26-28, 1988. The audit team generated nine SDRs, eight observations, and one recommendation. A letter was written to USGS on June 29, for signature and issuance.

II. Significant Accomplishments/Information Items

The draft final report on the Seismic-Design Cost Benefit Assessment is presently undergoing concurrent WMPO and DOE/HQ review. The final report is scheduled for July 29, 1988.

A Project Managers and Technical Project Officers meeting was held on Tuesday and Wednesday in Las Vegas.

A Total System Life Cycle Cost Model meeting was held on Wednesday. Representatives from WMPO, DOE/HQ, and Sandia National Laboratories attended.

The first of several dry runs of the July 18 NRC Exploratory Shaft Facility (ESF) meeting was held on Wednesday and Thursday in Rockville, Maryland. Representatives from the project participants will be making a technical presentation at the NRC ESF meeting on July 18.

Prototype testing of shaft mapping at the Fran Ridge test pits is still being delayed by the need for an air quality permit. It is expected that continued delays will impact readiness for the start of exploratory shaft construction.

III. Upcoming Events

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
A. <u>Coordinating Group Meetings</u>			
Thursday-Friday, July 14-15	Design Interface Group meeting	Las Vegas, NV	T. Zvada, WMPO
B. <u>HQ Meetings</u>			
Monday, July 18	Technical meeting on the ESF	Rockville, MD	D. Irby, WMPO
C. <u>Internal Project and DOE/Nevada Operations Office (NV) Meetings</u>			
Tuesday, July 12	Project Manager Meeting	Las Vegas, NV	V. Davis, WMPO
Wednesday, July 13	Status meeting on the Waste Package Program	Las Vegas, NV	R. Morrisette SAIC

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C. Internal Project and DOE/NV Meetings (cont.)

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
Friday, July 15	WMPO Branch Chief status meeting	Las Vegas, NV	C. Garvin, SAIC
Tuesday, July 19	DOE/NV Manager's meeting	Las Vegas, NV	V. Davis, WMPO
Monday, July 25	QA Audit of SNL	Albuquerque, NM	J. Blaylock, WMPO
Thursday - Friday, July 28-29	Project Managers/ Technical Project Officers meeting	Las Vegas, NV	J. Fiore, SAIC
Tuesday, August 2	ESF Interface Control Working Group meeting	Las Vegas, NV	D. Irby, WMPO
Tuesday, August 9	Sample Overview Committee meeting	Las Vegas, NV	U. Clanton, WMPO

D. State and Public Interaction

Wednesday, July 13	Project Manager speaks at mock senate hearing performed by youth group	Carson City, NV	V. Davis, WMPO
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E. U.S. Nuclear Regulatory Commission Interaction

None to Report.

F. Other

None to report.



Carl P. Gertz, Project Manager
Waste Management Project Office

WMPO:SAC-2797