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TO: Mr. Robert E. Browning, Director
FROM: Paul T. Prestholt, Sr. On-Site Licensing Representative
DATE: February 17, 1987
SUBJECT: DOE Weekly Report

Please find enclosed the above-referenced report received in this office, i.e., for week ending February 6, 1987.

nan for PTP

Enclosure

cc: J. J. Linehan
K. Stablein
S. G. Bilhorn
S. Wastler

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PDR WASTE
WM-11 PDR

WM Record File

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WM Project 11

Docket No.

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FEB 12 1987

Stephen H. Kale, Associate Director, Office of Geologic Repositories, DOE/HQ
(RW-20) FORS

NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS (NNWSI) PROJECT WEEKLY HIGHLIGHTS
FOR THE WEEK ENDING FEBRUARY 6, 1987

I. Critical Items Status

A. Stop Work Order

Lawrence Livermore National Laboratory (LLNL)--The status of the five remaining sets of scientific investigation planning (SIP) documents is as follows:

1. Waste package environment--The third internal draft is in review at LLNL. The draft was due to the Waste Management Project Office (WMPO) on January 31, 1987, and had not been received by February 6. The delay is due to efforts required for LLNL review of the Site Characterization Plan (SCP) and preparation of the Work Package Proposal Authorization System (WPAS).
2. Waste form-spent fuel--The draft SIP documents are due to WMPO for internal review on February 27, 1987.
3. Metal barriers--The draft SIP documentation is due for LLNL review on February 27, 1987.
4. Other materials--Quality related technical work will not proceed until the quality assurance level assignments are approved and additional staff are available.
5. Integrated testing--The draft SIP documentation is due for internal review on February 14, 1987.

Sandia National Laboratories (SNL)--WMPO approved Section 7.0 of the SNL Quality Assurance Program Plan on December 24. This was the final action necessary to complete SNL Milestone R892, and resulted in the lifting of the SNL stop work order.

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U.S. Geological Survey (USGS)--An informal review with WMPO concerned four SIP documentations for prototype testing of geologic studies of the exploratory shaft facility (ESF), geologic studies of the ESF, seismic reflection and refraction surveys, and paleoenvironmental history of the Yucca Mountain region. All comments were resolved and changes will be made and distributed to the principal investigators next week. Other SIP documents in various stages of preparation and review include distribution of past erosion, hydraulic and conservative tracer tests in fractured rock, modeling of fracture networks, matrix-hydrologic property testing, drill hole stemming prototype, unsaturated zone prototype testing, geophysical and rock properties testing, and optimal rubble size. Quality assurance (QA) training continues.

B. Site Characterization Plan (SCP)

A Permanent Overview Committee (POC) meeting to review Sections 8.4 and 8.7 was held January 26-28. The revised text will be sent to the U.S. Department of Energy (DOE)/Headquarters (HQ) as soon as possible.

During a Permanent Internal Review Committee (PIRC) 15 meeting of January 28, the following summaries and significant events were reported by the team leaders.

Team 3, Waste package compliance consistencies---A POC meeting was scheduled to begin February 2, 1987. High priority will be given to completing the SCP in lieu of the waste package strategy document.

Team 11, Higher level findings-U.S. Nuclear Regulatory Commission (NRC) siting criteria--A revised list of issues and information needs for Sections 1.8 and 1.9 were scheduled to be distributed to the POC on January 30, 1987. Sections 8.3.5.6 and 8.3.5.7 were to be distributed February 2, 1987. A POC meeting was scheduled for February 5-6, 1987.

Team 12, Future climate--A meeting on strategies for modeling future climate is scheduled for February 11, 1987, in Washington, D.C.

Team 21, Tectonics--Met to revise pre- and postclosure issue resolution strategies and information needs and will reconvene February 9 to discuss the revised text.

Team 23, Mineral resources--The revised text of Sections 1.7 and 8.3.1.9 were to be distributed for POC review February 2; the POC meeting is scheduled for February 10.

Team 24, Section 8.5--Representatives from USGS, SNL, Los Alamos National Laboratory (Los Alamos), and Science Applications International Corporation (SAIC) met on January 27 to discuss input for Section 8.5 and schedules and milestones for Section 8.3.

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Team 26, Reference verification--Reference verification has been completed for Chapters 2, 4, 5, 6, and 7. Chapter 3 is to be completed by February 6. Chapter 1 is tentatively scheduled for completion by February 13. Verification for Chapter 8 is still in progress. The Project participants must assess the status of references that are in preparation and delete references that will not be completed by the March 1, 1987 freeze-text date.

Sections 8.3.1 and 8.3.5 were distributed for editorial review (PIRC 16) on January 30.

Software has been designed and a plan and schedule have been implemented for preparing a glossary for the SCP.

The Office of Geologic Repositories (OGR) is planning to distribute SCP Chapters 1-5 of the HQ draft to the State of Nevada and the NRC. This release of Chapters 6 and 7 are currently on hold.

C. Waste Package Strategy Document

The revised draft of this document was sent to the State of Nevada and DOE/HQ on January 16. LLNL personnel began a QA review of the document.

I-A. Project Manager's Concerns

A letter to Kale on January 26, notes that it appears WMP0 may have to check each SCP reference to ensure that the data presented was collected under controls comparable to Level II QA, and requests earliest possible advice as to action NNWSI Project should take in reviewing reference documents to assure QA requirements. (87-821)

A letter to Kale on February 1, 1987, transmits a draft presentation paper about proposed changes to the NNWSI Project ESF for review and comment. The Project plans to present the paper to the NRC and the State of Nevada. (87-882)

The following concerns have been reported previously on Weekly Highlights reports.

Issue	Status	First Report Date
1. Letter to Knight dated March 25 requests HQ help in obtaining available NRC information regarding criteria, restrictions, and analyses relating to overflight of licensed facilities by aircraft. (86-958)	Due May 6, 1986. OGR action delayed due to higher priority issues (12/16/87 update).	03/27/86

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Issue	Status	First Report Date
2. Letter to Jelacic dated August 21 requests information about applicability of "A Guide to Radiological Accident Considerations for Siting and Design of Department of Energy (DOE) Nuclear Facilities" to Nuclear Waste Policy Act Program. (86-2126)	Due September 11, 1986. In internal review; input to be sent to J. Knight, WMPO to receive draft by 1/23/87 (in progress as of 1/27/87).	10/31/86
3. Letter to Stein requests a briefing be given on November 4 to Nevada Operations Office management by Resource Technology, Inc., concerning their recommendations on drilling activities for the nuclear waste isolation program. (87-252)	Due February 15, 1987. Final report will be completed shortly; meeting with management may not be necessary. Will advise later (1/27/87).	10/24/86
4. Letter dated November 10 to Newton requests clarification of three areas in minutes of July 23-24 QACG meeting: 1) phasing of NQA-1 1986 into Project QA plans; 2) interpretation of QA administrative procedures; and 3) references to State and tribes and NRC participating on DOE audits. (87-404)	Due December 8, 1986.	11/14/86
5. Letter to Knight on December 2 comments on proposed interactions and technical meetings with NRC and need to complete SCP and requests HQ approval to conduct a DOE and NRC interaction on seismic/tectonics in February 1987. (87-529)	Due December 23, 1986.	12/12/86

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Issue	Status	First Report Date
6. Letter to Newton dated December 15 transmits NNWSI Project QA Plan for approval by the OGR and requests expeditious review. (87-596)	Due January 1, 1987.	01/02/87
7. January 12 letter to Gale repeats previous request for guidance concerning State of Nevada compliance with Office of Management and Budget regulations regarding information collection. (87-710)	Due January 13, 1987.	01/17/87
8. January 22 letter to Stein transmits final version of letter report describing ongoing and planned site characterization activities. Requests approval to provide copies to State of Nevada at January 23 meeting. (87-749)	Due January 22, 1987.	01/23/87
9. January 28, letter to Kale for review and approval of the reevaluation of the Exploratory Shaft Requirements for the NNWSI Project. (87-824)	Due February 18, 1987	01/30/87
10. December 22, letter to Alexander requesting clarification of the Study Plan Review. (87-844)	Due January 5, 1987	01/30/87
11. January 14, letter to Stein transmitting the NNWSI Project's SCP to the OGR for review. (87-845)	Due February 27, 1987	01/30/87

Significant Accomplishments/Information Items

SNL personnel completed a video tape of the computer modeling capabilities of the Interactive Graphics Information System for the Office of Civilian Radioactive Waste Management.

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A summary of studies of coupled processes included in the SCP was submitted by SNL to WMPO for policy review, completing Milestone M771.

Other SNL reports submitted for policy review include: "A First Survey of Disruption Scenarios for a High-Level Waste Repository at Yucca Mountain, Nevada" (Milestone M104); "Reference Thermal and Thermal/Mechanical Analyses of Drifts for Vertical and Horizontal Emplacement of Nuclear Waste in a Repository in Tuff" (Milestone M413); and "Sandia Implementation of the TRACR3D Flow and Transport Code" (Milestone M142).

Los Alamos submitted the report "Modeling the Exploratory Shaft Diffusion Test" (Milestone R314) to the WMPO.

III. Upcoming Events

A. Coordinating Group Meetings

	<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
1.	Wednesday-Thursday, February 11-12	Technical Code Coordination Meeting	Denver, CO	J. Robson, WMPO

B. HQ Meetings

1.	Tuesday-Thursday, February 10-12	OGR Information Management Systems Task Force	Las Vegas	K. Hatch, WMPO
2.	Wednesday-Friday, February 18-20	OGR Licensing Support System Task Group	Washington, D.C.	K. Hatch, WMPO

C. Internal Project and DOE/NV Meetings

1.	Tuesday, February 17	DOE/NV Managers' Meeting	Las Vegas	B. West, WMPO
2.	Tuesday-Thursday, February 17-19	Systems Engineering Integration Group Meeting	Livermore, CA	J. Robson, WMPO
3.	Wednesday-Thursday, February 18-19	PM-TPO Meeting	Las Vegas	J. Fiore, SAIC
4.	Wednesday-Friday, February 18-20	Licensing Support System Meeting	Las Vegas	K. Hatch, WMPO
5.	Tuesday, February 24	Quality Assurance Working Group (Waste Package) Meeting	Columbus, OH	J. Blaylock, WMPO

Stephen H. Kale

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<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
6. Tuesday, March 3	Sample Overview Committee Meeting	Las Vegas	U. Clanton, WMPO

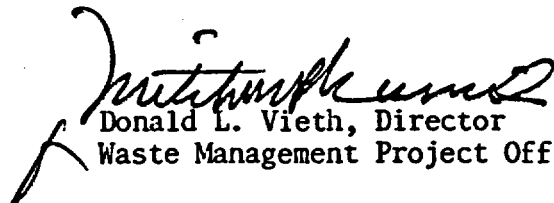
D. State and Public Interaction

1. Thursday, February 12	States and Tribes Quarterly meeting	Spokane, WA	B. West, WMPO
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E. NRC Interaction

None to report.

WMPO:WRD-968


Donald L. Vieth, Director
Waste Management Project Office