

WM Record File

WM

ject

Docket No.

PDR

LPDR

August 6, 1984

## Distribution:

REB/MJB/JOB LBH/MRK/Kopko  
HJM/BARRETT DUMBLE/BILHORN  
(Return to WM, 623-SS) CER/STAGELIN

MEMORANDUM FOR: Robert E. Browning, Director  
Division of Waste Management

FROM: Paul T. Prestholt, Sr. OLR - NNWSI

Subject: NNWSI Site Report for Week of July 30, 1984

1. The July TPD-NNWSI meeting was held on August 1, and 2, (a copy of the agenda is attached), of particular interest to the NRC are the following:

a. The second exploratory shaft at the NNWSI will be six feet inside diameter. As of now the design of the second shaft to be discussed in the SCP will be for a 6 foot shaft;

b. A critique of the recent geochemistry workshop and the design/rock mechanics and geohydrology data reviews was given by the TPD's. The three involved TPD's were cautiously complementary. The workshop at LANL (geochemistry) was judged by Don Oakley to be useful but he said future workshops could benefit by being more focused.

SNL (design) and the USGS (geohydrology) TPD's stated that they had not understood what the NRC expected and that the NRC didn't seem to know either. It was suggested that a better understanding by the NRC as to what data were available and what form it would be in, coupled with better planning, would improve future data reviews;

c. The July 26, NRC/DOE SCP meeting was discussed. Joe La Rue of SAI attended the meeting and gave a presentation (copy of the viewgraphs enclosed). There were a number of points presented by the NRC (as reported by La Rue) that seemed to take the TPD's and Dr. Vieth's staff by surprise. Two examples are the required plans for D & D of the candidate site and the level of detail to be in data gathering and analysis plans. It seems that the NRC positions have not been made known to the DOE project offices by DOE HQ.

d. The "Site Specific Agreement" was discussed. Dr. Vieth stated that he was going to sign it and all TPD's were on

8408200474 840806  
PDR WASTE  
WM-11 PDR

1

NV8481 69

339

WM DOCKET CONTROL  
CENTER  
84 AUG 13 11:46

notice that they must abide by its provisions;

2. It was suggested by Dr. Vieth and his staff that a meeting between DOE and the NRC NNWSI project management would be beneficial. It was further suggested that the meeting be held the first week of September and that it be held in Las Vegas. Possible subjects for the meeting would include scheduling of future workshops and data reviews, discussions on the content of the NNWSI EA and SCP, direct interactions between NRC and DOE (including National Lab and USGS) personnel and implementation of the "Site Specific Agreement", if in place.

( Seth Coplan has agreed that such a meeting would be beneficial. The first week in September has been agreed upon by both parties and an agenda will be prepared by DOE and myself, and forwarded to Seth Coplan for approval; )

3. A DOE sponsored meeting on the earthquake seismology of the NTS is being held at SAI Hq in La Jolla, Calif. during the week of August 6. I requested an invitation but was refused. I will be briefed on the results of the meeting. I intend to bring up the subject of NRC attendance at such technical meetings during the discussions of the "Site Specific Agreement" in September. I did not consider the La Jolla meeting was important enough to force the issue at this time;

4. There is a request for Topopah Spring rock samples and J-13 water samples by Oak Ridge National Lab. I forwarded this written request, through Jerry Szymanski, to Dr. Vieth. Dr. Vieth does not consider that the request meets the criteria set forth in the "Site Specific Agreement". Szymanski will send a letter outlining what DOE wants before the samples will be released;

5. Ben Rusche is visiting Las Vegas on August 16, and 17. I have been invited to a reception for Mr. Rusche on the 16th and to accompany the Ben Rusche party (Bennet, Mc Elvey), Tom Clark, (Manager, Nevada Operations Office) and Don Vieth) on an overflight of the NTS on the 17th.

L84-JHF-411

July 19, 1984

To: Distribution

Subject: July 1984 PM-TPO Meeting

Attached is an agenda for the July Project Manager-Technical Project Officers meeting which will be held on August 1-2 in the conference room at 2769 So. Highland. You will be notified if any significant changes are made which would affect presentors' appearances.

Please note that Wednesday's meeting starts at 8:00 a.m.

SCIENCE APPLICATIONS, INC.

*Joy H. Fiore*  
Joy H. Fiore

JHF:md

Enclosure:  
As Stated

Distribution w/encl.:

D. L. Vieth, WMPO (2)  
D. T. Oakley, LANL, Los Alamos, NM  
T. O. Hunter, SNL, 6310, Albuquerque, NM  
W. W. Dudley, Jr., USGS, Denver, CO  
L. D. Ramspott, LLNL, Livermore, CA  
A. R. Hakl, W, Mercury, NV  
M. E. Spaeth, SAI/LV  
M. P. Kunich, WMPO  
M. B. Blanchard, WMPO (3)  
V. F. Witherill, WMPO (4)  
A. J. Roberts, RMB  
J. N. Fiore, EEM  
S. H. Klein, SAI-QA/Las Vegas, NV  
M. D. Voegele, SAI, Las Vegas, NV  
J. R. LaRiviere, SAI, Las Vegas, NV  
B. C. Donaho, Interaction Associates  
C. H. Johnson, NWPO  
P. T. Prestholt, NRC/Las Vegas  
Project File 9.2.1.8.2  
Records Center



## Department of Energy

Nevada Operations Office

P. O. Box 14100

Las Vegas, NV 89114-4100

AUG 03 1984

J. William Bennett, Acting Assoc. Dir., Office of Geologic Repository  
Deployment, DOE/HQ (RW-20), GTN

### NNWSI WEEKLY HIGHLIGHTS FOR WEEK ENDING AUGUST 2, 1984

#### I. Issues Requiring Involvement of HQ or other Projects

##### A. New Issues:

Formal guidance is needed regarding phased approach; contracts with A-E for conceptual design need to be modified.

##### B. Previously Reported Issues:

Issue	Status	First Report Date
1. What is HQ's position regarding two exploratory shafts: one 12-ft diameter and one 6-ft diameter shaft?	Open	July 19, 1984
2. Does HQ have a policy regarding state conduct of site specific measurements at proposed repository sites?	Open	July 26, 1984

#### II. Major Internal Concerns

None to report.

#### III. Significant Accomplishments (SA)/Information Items (II)

##### SA

None to report.

##### II's

- o The NRC-NNWSI Geohydrology Data Review was conducted during the week of July 23-27 at the USGS office in Denver. The NRC staff was pleased with the cooperation and openness of USGS participants. The feasibility of strict data reviews is questioned because it is clear

that exchanges between technical people and NRC staff members is necessary to understand some technical aspects of the data being reviewed.

- o Participants at the July 26 meeting between the NRC, HQ, and Project representatives discussed contents of the SCP. NNWSI is in the process of submitting a formal position to HQ in response to NRC's requests. This position statement is to be included in the Program position that will be presented to the NRC sometime in September. In addition, Project positions regarding Chapter 10 of the SCP will be addressed at the SCP Workshop to be held on August 9-10 in Richland.
- o Janie Shaheen has agreed to transmit a letter to WMPO requesting that core samples of the Topopah Spring Tuff Member be sent to Ward's Natural Science Establishment, Inc. The samples will be cut and polished into 300 thin slab samples for a Program Sample set.

#### IV. Upcoming Events

##### 1. Coordination Group Meetings

- o Monday-Tuesday, August 6-7: Institutional/Socioeconomic Coordination Group Meeting.
- o Tuesday-Thursday, August 7-9: Repository Coordination Group Meeting, Denver.
- o Thursday-Friday, August 8-9: Underground Testing Coordination Group Meeting, GTN.
- o Wednesday-Thursday, August 15-16: Licensing Coordination Group Meeting, Richland.

##### 2. HQ Meetings

- o Thursday-Friday, August 9-10: Program-wide SCP Workshop (Chapter 10), Richland.
- o Monday-Friday, August 20-24: Program-wide EA meeting, GTN.
- o Tuesday-Wednesday, August 14-15: Office Automation Meeting, Richland.
- o Thursday-Friday, August 16-17: Ben Rusche visit to DOE/NV and NTS tour.
- o Monday-Wednesday, August 20-22: ICE Group Meeting, GTN.
- o Thursday, August 23: Program Managers Meeting, DEN.

AUG 03 1984

3. Internal Project and DOE/NV Meetings

- o Friday, August 3: Repository WBS Meeting, Las Vegas.
- o Tuesday, August 21: DOE/NV Program Review Meeting, Las Vegas.
- o Wednesday-Thursday, August 1-2: PM-TPO meeting in Las Vegas.
- o Thursday-Friday, August 16-17: ESTP Committee meeting, Las Vegas.

4. State and Public Interaction

- o Friday, August 3: DOE/NV, State of Nevada, DRI, and USGS meeting, Las Vegas.
- o Monday, August 6: Tour of NTS for Harry L. Peeples, Deputy Director of Administration, DOE/HQ.
- o Wednesday, August 22: Don Vieth presentation to American Society of Chemical Engineers meeting in Los Angeles.
- o Tuesday, September 4: Don Vieth on agenda for Nye County Commissioners' meeting to present status of Project, Tonopah.

5. NRC Interaction

- o Thursday, August 9: NRC In Situ Meeting.
- o Two weeks: August 20-31: NRC-DOE-USGS Geology Data Review, Denver, Menlo Park, Las Vegas.

WMPO:DLV-1082

  
Donald L. Vieth, Director  
Waste Management Project Office

AUG 03 1984

cc:

T. P. Longo, DOE/HQ (RW-22), GTN  
J. J. Fiore, DOE/HQ (RW-22), GTN  
C. R. Cooley, DOE/HQ (RW-24), GTN  
M. W. Frei, DOE/HQ (RW-23), GTN  
V. J. Cassello, DOE/HQ (RW-12) GTN  
E. S. Burton, DOE/HQ (RW-25), FORSTL  
J. O. Neff, DOE/SRPO, Columbus, OH  
S. A. Mann, DOE/CRPO, Argonne, IL  
O. L. Olson, DOE/RL, Richland, WA  
R. W. Taft, AMES  
L. E. Perrin, RMB  
A. J. Roberts, RMB  
T. O. Hunter, SNL, 6310, Albuquerque, NM  
W. W. Dudley, JR., USGS, Denver, CO  
L. D. Ramspott, LLNL, Livermore, CA  
D. T. Oakley, LANL, Los Alamos, NM  
A. R. Hakl, W, NTS  
M. E. Spaeth, SAI, Las Vegas, NV  
J. R. LaRiviere, SAI, Las Vegas, NV  
W. S. Twenhofel, Lakewood, CO  
J. H. Fiore, SAI, Las Vegas, NV  
R. R. Loux, NWPO  
C. H. Johnson, NWPO  
P. T. Prestholt, NRC/Las Vegas, NV

**R.G. 417 NWPA REVISIONS**

- **SITE SCREENING AND SELECTION PROCESS ADDRESSED IN EA. PART A DELETED.**
- **PLANS FOR D & D OF CANDIDATE SITE REQUIRED.**
- **PLANS FOR MITIGATION OF SIGNIFICANT ENVIRONMENTAL IMPACTS OF SITE CHARACTERIZATION IF FOUND UNSUITABLE.**
- **CRITERIA TO BE USED TO DETERMINE SUITABILITY OF THE SITE DEVELOPED PURSUANT TO SECTION 112 (a) REQUIRED.**
- **PLANS FOR ONSITE TESTING WITH RADIOACTIVE MATERIALS REQUIRED.**
- **PLANS FOR ANY INVESTIGATION ACTIVITIES THAT MAY AFFECT ISOLATION CAPABILITY OF SITE REQUIRED.**



**R.G. 4.17 CLARIFICATIONS AND REVISIONS BASED  
ON EXPERIENCE**

1. LEVEL OF DETAIL OF DATA GATHERING AND ANALYSIS PLANS.  
AVAILABILITY OF REFERENCES.
2. REVISE DESCRIPTION OF LEVEL OF DETAIL FOR CONCEPTUAL DESIGN.
3. SYSTEM COMPONENT PERFORMANCE REQUIREMENT NEED TO BE SPECIFIED.
4. DESCRIPTION OF THE SCALE AND DURATION OF IN-SITU TESTING REQUIRED.
5. OTHER
  - o UNSATURATED ZONE
  - o CLARIFY SEISMOLOGY, HYDROLOGY, GEOCHEMISTRY

REITERATION OF IMPORTANT POINTS RE: R.G. 4.17

- o COMPLETE STATEMENT OF UNCERTAINTIES AND ALTERNATIVE CONCEPTUAL MODELS.
- o INFORMATION ON DATA COLLECTION METHODS AND ANALYSIS SUFFICIENT TO PERMIT ASSESSMENT OF RELIABILITY AND QUALITY.
- o EXPLICIT DISCUSSION OF ALTERNATIVE TESTING AND ANALYSIS METHODS.
- o QUALITY ASSURANCE  
(NRC STAFF QA REVIEW PLAN)
- o DOCUMENTATION OF COMPUTER CODES USED.
- o BWIP SCA PROVIDES CONCRETE EXAMPLES.

## SITE CHARACTERIZATION PLAN

### REFERENCE DOCUMENT BASES FOR PREPARATION

- 0 PL 97-425, NWPA
- 0 10 CFR 960, SITING GUIDELINES
- 0 MISSION PLAN FOR CIVILIAN RADIOACTIVE WASTE (DRAFT)
- 0 10 CFR 60
- 0 40 CFR 191 (PROPOSED)
- 0 REG. GUIDE 4.17 (JULY, 1982)
- 0 SITE-SPECIFIC EA's

SCOPE ON SCP (FIRST REPOSITORY)

- O COVER TIME PERIOD THROUGH SITE RECOMMENDATION FOR FIRST REPOSITORY.
- O SUMMARIZE TECHNICAL KNOWLEDGE ABOUT THE SUBSURFACE GEOLOGIC AND ENGINEERING CHARACTERISTICS OF THE SITES UP TO THE TIME OF WRITING THE SCP.
- O SUMMARIZE DECISIONS OR RECOMMENDATIONS ALREADY MADE CONCERNING THE SITE.
- O DESCRIBE ACQUISITION PLANS FOR GEOLOGIC AND ENGINEERING INFORMATION TO CHARACTERIZE SITES AND TO RECOMMEND A SITE.
- O DESCRIBE WASTE FORMS AS SPENT FUEL, AND BOROSILICATE GLASS FROM WEST VALLEY BUT NOT TO PRECLUDE DWPF WASTE.
- O DESIGN INFORMATION WILL BE BASED ON MISSION PLAN.

UNDER CONSIDERATION

- 0 EXECUTIVE SUMMARY
- 0 LEVEL OF DETAIL ON DESIGN IN THE SCP NECESSARY TO DESCRIBE THE CONCEPT.
- 0 CHAPTER 10 BASES AND ORGANIZATION
  - SITING GUIDELINES
  - DATA REQUIREMENTS
  - ISSUES
- 0 SYSTEM PA CALCULATIONS
- 0 SPECIFIC DESIGN OBJECTIVES FOR SUBSYSTEM COMPONENTS

CARL COOLEY'S DEBRIEF

- 1) 10CFR960 GUIDELINES WILL BE COVERED IN CHAPT. 9. SECT. 9.1.1  
"CRITERIA" ALWAYS MEANS "GUIDELINES"  
ONLY THOSE GUIDELINES PERTAINING TO SITE CHARACTERIZATION  
WILL BE DISCUSSED
- 2) HUB MILLER  
CONTENT NOT FORMAT IS IMPORTANT IN SCP
- 3) ALL SCP'S MUST HAVE SAME FORMAT FOR CHAPT. 10 (9)  
OGC, EP, DOE-HQ REQUIREMENT
- 4) SUBSYSTEM PERFORMANCE ALLOCATION - PROJECTS TO DETERMINE
- ~~5) QA MEETING (C. NEWTON) IN RICHLAND - JULY 23~~
- ~~6) PNL WILL HANDLE ALL DOE PERFORMANCE ASSESSMENT CODES - PNL  
ALSO WORKING WITH NRC~~
- ~~7) SCP WORKSHOP IN RICHLAND - AUGUST 9 AND 10 WILL DISCUSS  
AGENDA ON AUGUST 2 TELECONFERENCE~~

## ISSUES

1) CHAPTER 9 FORMAT

SITING GUIDELINES  
SYSTEMS - PERFORMANCE  
ISSUES

2) DOCUMENT CONSISTENCY

MISSION PLAN  
10CFR60  
EA's, SCP's  
MGDR

3) SCP DATA CHAPTERS

QA PROCEDURES  
DETAILED TEST PLANS  
LICENSING QUALITY/DETAIL

4) PERFORMANCE ASSESSMENT

SUBSYSTEM PERFORMANCE  
ALLOCATION

5) NRC REVIEW OF SCP

10 MONTHS —————> 5 MONTHS  
NO DRAFT, PUBLIC COMMENTS

6) D&D OF ES

D&D OF REPOSITORY

7) COUPLED TESTING

?

8) (and probably most important)  
Site Sustainability Criteria

Las Vegas, NV

## NNWSI PROJECT MANAGER-TECHNICAL PROJECT OFFICER MEETING

DATE: August 1-2, 1984

TIME	WHAT	HOW	WHO	EXPECTED OUTCOME	REF MATERIAL & COMMENTS
<b>WEDNESDAY, August 1</b>					
8:00-8:10 a.m.	Introductions/Roles/Outcomes	Introductions 'round the room	Don/Brenda		
8:10-8:20	Meeting Agenda	Review Agenda, revise as necessary.	Brenda	Agenda everyone agrees on.	Agenda distributed July 26
8:20-8:25	May Meeting Minutes & Retreat Summary	Amend and/or approve.	Brenda		Minutes distributed June 11, Retreat Summary sent July 5
8:25-10:00	<b><u>FYI's</u></b>				
	o Rusche's Visit 8/16-17	Information on visit/logistics	Don		
	o Guidelines Status	Feedback	Don		
	o Mission Plan Status	Feedback	Don		
	o EA Submission Delay	Feedback	Don		
	o Phased Repository Approach	Information	Tom		
	o PANRG Meeting	Feedback	Tom		
	o NRC In Situ Meeting	Feedback	Henry		
	o July 19 Program Mgrs. Meeting	Feedback	Don		
	o Budget Status, FY 85, FY 86	Feedback	Don		
	o End of Year Review	Information	Don		
10:00-10:15	<b>BREAK</b>				
10:15-11:00	<b><u>FYI'S, Continued:</u></b>				
	o 2nd Exploratory Shaft	Information and definition of action to be taken.	Don		
	o DOE/NRC Site Specific Agreement.	Feedback on status	Don		
	o Nevada State (DRI) Review Support	Information/status	Don		
11:00-12:00	✓ Geochemistry Workshop Report	Feedback on how workshop went	Don O.	Understanding of strengths and weaknesses of processes, suggested proposals for changes in process or procedures; evaluation of attitudes and perceptions.	
	✓ Design Data Review Report	Feedback on how data reviews were conducted.	Tom		
	✓ Geohydrology Data Review Report		Bill		



TIME	WHAT	HOW	WHO	EXPECTED OUTCOME	REF MATERIAL & COMMENTS
<b>WEDNESDAY, August 1, cont'd.</b>					
12:00-1:00	LUNCH				
1:00-1:45 pm	Feedback on ESTP/SCP Meeting June 12	Present outcomes from meeting, suggest next steps to resolve Chapter 5/Chapter 10 interactions.	Mike V.	Understanding of group's agreements, action items. Clarification of next steps.	
	NRC SCP Meeting July 26 Future needs for SCP	Feedback Present summary of needs for developing SCP and role of participants.	Mike V. Mike V.	Gain TPO support in getting SCP moving.	
1:45-2:15	Records Center Proposal	Review of action item from May 30-31 PM-TPO Meeting. Present status.	Mike S.	Agree on course of action in FY 85 to establish a records control system and records center	
2:15-2:30	BREAK				
2:30-5:00	QA Session:				
	2:30-2:45 - Summary of changes in NNWSI QAP	Brief description of major changes between Rev. 1 and 2	Steve	Understanding of impact of changes on QA activities	Special invitation dated June 25 from WMPO to Site Managers
	2:45-3:00 - Questions and Answers	Discuss changes	Don/TPO's/Site Managers	Clarification, resolution	
	3:00-3:30 - Outcomes from Project QA Workshop	Review of major action items and proposed resolutions	Steve	Understanding of outcomes and proposed resolutions to identified problem areas.	
	3:30-4:00 - Schedules for updating participant organizations' QAP's and QAPP's	Present schedule for revisions to plans to conform with Rev. 2; discuss managers' roles in assuring schedule is met.	Steve	Understanding of when revisions are due; support from managers in getting plans revised by specified deadline.	

LOCATION: 27 South Highland (SAI)

AG ( ) JA

PAGE NO: 3 of 4Las Vegas, NV.

## NNWSI PROJECT MANAGER-TECHNICAL PROJECT OFFICER MEETING

DATE: August 1-2, 1984

TIME	WHAT	HOW	WHO	EXPECTED OUTCOME	REF MATERIAL & COMMENTS
<b>WEDNESDAY,</b> <b>August 1, cont'd.</b> QA Session, Continued:	4:00-4:30 - Management support of QA activities 4:30-5:00 - Open Discussion	Suggest ways Managers can help to see that Rev. 2 is implemented. Discuss problem areas, approaches to management support of QA, importance of effective quality control to entire project.	Steve Steve/Don/TPO's/ Site Managers	Understanding of reasons for management level involvement and support to QA efforts, and identification of problem areas.	
<b>THURSDAY,</b> <b>August 2</b>	8:00-8:15 a.m Review Agenda 8:15-9:00 <b>CCB MEETING</b> C/SCR 84/016 Re: Level 1 Milestone M521 (SCP Draft) C/SCR 84/017 Re: Level 1 Milestone M151 - SDD C/SCR 84/018 Re: Level 2 Milestone M907 - PMP Summary of Actions Taken	Agree on day's agenda Present rationale for change in delivery date of SCP to HQ; solicit counsel of TPO's. Present rationale for change to Preliminary SDD date. Present rationale for change of delivery date for Project Management Plan Review actions to assure agreement.	Brenda/Don/TPO's Mike V. Tom Bob L. Chuck	Approval of CCB action. Approval of CCB action. Approval of CCB action. Agreement on actions taken	CCB Agenda/Change request dated July 24. Change request dated July 24 Change request dated July 24

TIME	WHAT	HOW	WHO	EXPECTED OUTCOME	REF MATERIAL & COMMENTS
<b>THURSDAY, August 2, cont'd.</b>					
9:00-10:15	EA o Status o Report on EA Workshop held July 9-13 in Columbus	Feedback	Max Max		
10:15-10:30	BREAK				
10:30-12:00	Administrative Issues: o AP 3-1,2,3 Procedures o Program-Wide WBS o Project WBS Dictionary o Baseline Milestones	Discuss concerns and reactions to Procedures Feedback and impact from Program Manager's Meeting Discuss scheduled baseline date (Sept. 1). Discuss philosophy of implementing changes to Milestones	Mitch/Chuck/Don/ TPO's Don Chuck Chuck/Mitch	Agreement with Procedures as issued. Understanding of current status of proposed WBS for Program. Inform TPO's of plan to baseline WBS Dictionary as drafted. Understanding of and agreement on approach.	Procedures sent July 25
12:00-1:00	LUNCH				
1:00-2:15	Project Documentation Structure	Present summary of Project Plan/Project Management Plan and where they fit in project documentation structure; discuss participant PMP's and PP's.	Dave Draper Don/TPO's	Understanding of how plans fit into documentation needs and what is necessary to feed into them.	Action item from June 26-27 Management Retreat.
2:15-3:00	Open Items	Present open items/left-overs	Don/TPO's		
3:00-3:15	Action Items Review	Review action items generated in meeting.	Brenda/Don/TPO's	Agree on item, content, dates.	
3:15-3:25	August Agenda	Review agenda items generated in meeting.	Brenda/Don/TPO's	Agree on items, add, delete as necessary.	
3:25-3:30	Meeting Evaluation	Evaluate how we did.	Brenda.		