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WM PROJ. NO. 11
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March 26, 1985 Stablein

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

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

Subject: NNWSI Site Report for Weeks of March 11 & 18,
1985

I. On Sunday, March 10, I traveled to Silver Spring to attend the first NRC-NNWSI Management Meeting as called for in the DOE/NRC Site-Specific Procedural Agreement, item 2, paragraph B. This meeting was held on Monday, March 11. I spent the 12th and 13th talking with you, Mike Bell and other division staff who are associated with the NNWSI project. I returned to Las Vegas on the 14th.

Attending the management meeting, held on March 11, were:

1. For the NNWSI - Dr. Donald Vieth, Dr. Michael Voegele and Jerry Szymanski.
2. For the NRC - P. T. Prestholt, Dr. King Stablein, Seth Coplan, John Linehan (morning only) and John Greeves (in and out).

The objective of the meeting was to:

1. Identify technical meeting topics for pre-SCP interactions between the NRC staff and the NNWSI.
2. Develop a technical meeting schedule.
3. Improve technical meeting usefulness through the development of workshop formats that result in benefit to both organizations.

The technical meeting topics and tentative dates proposed are:

1. Exploratory Shaft-Design/Construction: June 3-7

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see memo to RRB
from Presthaert
3/26/85 102

2. Performance Allocation/Assessment: October 1-4
3. Waste Package: July
4. Seismic/Tectonics:
Develop an annotated table of contents for a NNWSI technical position and discuss in a one day meeting on April 25. Issue draft technical position and have workshop the week of August 19.
5. Conceptual Design: Week of May 6
6. Exploratory Shaft Test Plan: September
7. Volcanism: November
8. Unsaturated Zone Hydrology/Geochemistry:
Week of June 24
9. NRC/NNWSI Management Meeting: August

The need to improve the usefulness of technical meetings to both the NRC and the NNWSI has been recognized for over a year. A fixed design or format for technical meetings is impossible due to the different needs of the various technical disciplines. However, a number of points were agreed on. From Dr. Vieth's presentation:

- ..Establish what we want to accomplish (both organizations put this down in writing prior to the meeting in more detail than an agenda).
- ..Assure right people are there.
- ..Establish a format for a "dialogue".
- ..Emphasize data, interpretations and issue resolution.
- ..Focus on record and documentation of the meeting.

A further point might be to limit the number of topics or issues to be discussed so that the above points can be accomplished.

II. The March PM-TPD Meeting was held on March 20 and 21. A copy of the agenda is enclosed. Items of interest to the staff include:

1. The NNWSI issue hierarchy was discussed. Issuance of the

issue hierarchy, including the information needs, is expected on April 1. Enclosed is the handout that accompanied the discussion.

2. An update on how the comments to the EA will be handled. The handouts for this discussion are enclosed.
3. Max Blanchard and the SCP team gave a comprehensive discussion on the production of the SCP. Included was a discussion on chapter 8 of the SCP and the QA status of the document. The handouts for this discussion are enclosed.
4. DOE-Hq. has agreed to some flexibility on the August 29 EA final issue date. Also, DOE-Hq. will accept comments right up to "camera-ready copy" time.
5. DOE-Hq. has agreed that the NNWSI SCP issue date will be the end of March, 1986. The exploratory shaft start date is August, 1986.

III. Uel Clanton, DOE-WMPD, is developing a methodology to protect core (rock samples from bore holes) in the core library (USGS facility). The purpose is to preserve a permanent record in the form of core samples. This is to be accomplished realizing that there are legitimate needs for rock samples for testing by NNWSI participants, other federal agencies (the NRC, EPA, etc.) and the State of Nevada. There are important intervals in the core record that have been depleted to the extent that there is less than 30% of the original core left.

Dr. Clanton is proposing that a committee be established, with a member from each NNWSI participant, that would pass on all sample requests. Each member would also act as the advocate for his/her organizations sample requests. All requests will be given the same consideration. The major reason for refusal of a request for a sample from a specific interval would be to preserve enough core for the historic record.

Dr. Clanton has asked me to act as advocate for the NRC. I would not, of course, be a member of the board. Subject to your concurrence, I agreed.



Science Applications International Corporation

L85-SS-JHF-060

March 13, 1985

To: Distribution

Subject: March 1985 PM-TPO Meeting

Attached is an agenda for the March Project Manager-Technical Project Officers meeting which will be held on March 20-21 in the conference room at 2950 So. Highland Drive. You will be notified if any significant changes are made which would affect presentors' appearances.

Mini-agendas will be faxed to the TPOs prior to the meeting or will be posted during the meeting for some selected items as noted in the agenda.

SCIENCE APPLICATIONS
INTERNATIONAL CORPORATION

Joy H. Fiore
Deputy Manager,
Management Support Services

JHF:md

Enclosure:
As Stated

Distribution
March 14, 1985
Page 2

Distribution w/encl.:

D. L. Vieth, WMPO, DOE/NV (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
J. B. Wright, W, Mercury, NV
M. E. Spaeth, SAIC, Las Vegas, NV
V. J. Cassella, DOE/HQ (RW-22), FORSTL
M. P. Kunich, WMPO, DOE/NV
M. B. Blanchard, WMPO, DOE/NV
V. F. Witherill, WMPO, DOE/NV
A. J. Roberts, RMBD, DOE/NV
D. I. Irby, EEM, DOE/NV
B. C. Donahoe, Interaction Associates
C. H. Johnson, NWPO, Carson City, NV
P. T. Presthoit, NRC, Las Vegas, NV
M. D. Voegele, SAIC, Las Vegas, NV
J. R. LaRiviere, SAIC, Las Vegas, NV
C. S. Jonson, SAIC, Las Vegas, NV
Project File 9.2.1.8.2
Records Center

AGENDA

LOCATION: 2950 S. Highland

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Las Vegas, NV

DATE: March 20-21, 1985

NNWSI PROJECT MANAGER-TECHNICAL PROJECT OFFICER MEETING

TIME	WHAT	HOW	WHO	EXPECTED OUTCOME	REF MATERIAL & COMMENTS
Wednesday, March 20					
8:00-8:10	Introductions/Roles/Outcomes	Introductions 'round the room and review outcomes.	Brenda/Don/TPOs		
8:10-8:25	Agenda	Review agenda; change as required.	Brenda/Don/TPOs	Agree on today's agenda.	Agenda faxed 3/14/85
8:25-8:30	February Minutes	Correct and/or approve.	Don/TPOs	Agree on minutes issued.	Minutes sent 3/6/85.
8:30-9:30	FYIs				
	o EA Public Hearings	Feedback	Don		
	o EEI IIQ Presentation	Feedback	Don		
	o SCP Design Requirements Meeting	Feedback	Don		
	o Transportation Progress Report	Feedback	Don		
	o QA Audit at WMPD	Feedback	Don		
	o State of NV Lawsuit	Status	Don		
	o USGS Support to NNWSI Project	Status	Don		
9:30-9:45	Consultation Process with the State of Nevada	For information to describe process involved.	Don	Understand process.	
9:45-10:00	BREAK				
10:00-11:00	Curation of Samples	State need for curation system involving all participants. Propose monthly meeting of directly involved people to deal with sample requests and keep up to date on status of remaining core.	Uel	Agree to need for better system; agree to monthly meetings for control; identify responsible individual in each organization.	

AGENDA

LOCATION: 2950 S. Highland

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Las Vegas, NV

DATE: March 20-21, 1985

NNWSI PROJECT MANAGER-TECHNICAL PROJECT OFFICER MEETING

TIME	WHAT	HOW	WHO	EXPECTED OUTCOME	REF MATERIAL & COMMENTS
Wednesday, March 20, Cont'd.					
11:00-11:30	WPAS	Present broad overview of WPAS status; answer questions.	Lance	Understand WPAS status.	
11:30-12:00	FY 86 Budget	Discuss funding requests from TPOs, assess need to reprioritize budget. Identify next steps.	Lance/Don/TPOs	Understand status of funding requests. Agree to reprioritize budget. Agree to time for reprioritization process.	
12:00-1:00	LUNCH				
1:00-1:30	Performance Assessment Plan	Resolve who's plan it is: DOE or SNL? Discuss its place in hierarchy of project documentation.	Larry/Tom Don/TPOs	Agree to who will issue PAP and where it fits in documentation structure and NNWSI Project organization.	Letter Larry to Tom 3/6.
1:30-2:30	NRC ES Position Paper <i>Cancelled</i>	Present revised Project position outline; present approach to dealing with April 1983 NRC issues.	Dean/Vern	Approve position outline and agree to an approach to handle NRC's request.	
2:30-3:15	NRC/DOE Management Meeting	Present feedback of meeting with NRC on 3/11. Firm up Workshop schedule developed during meeting. Discuss proposed format for workshops.	Don Don/TPOs	Understand results. Agree to Workshop schedule and format.	
3:15-3:30	BREAK				
3:30-4:00	Licensing Update	Status of interactions with NRC.	Mike G.	Understand status.	

AGENDA

LOCATION: 2950 S. Highland

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Las Vegas, NV

DATE: March 20-21, 1985

NMMSI PROJECT MANAGER-TECHNICAL PROJECT OFFICER MEETING

TIME	WHAT	HOW	WHO	EXPECTED OUTCOME	REF MATERIAL & COMMENTS
Wednesday, March 20, cont'd.					
4:00-4:15	Records Management QA	Status of Plan and Procedure Status of QA meetings, SOPs, etc.	Stan Stan	Understand status. Understand status.	
4:15-4:30	Q-List Development	Explain generation of Q-list and where Project stands; define what needs to be done.	Don	Understand what's involved, agree to what next steps are.	
4:30-5:00	Technical Presentations at TPO meetings	Revisit. Discuss status and impact on Project schedule; discuss need for presentations.	Larry/Don/ TPOs	Agree to need for these presentations in light of impact on work.	
NOTE: IT MAY BE NECESSARY TO CONDUCT A BUDGET REPRIORITIZATION MEETING FROM 5:00-6:00. THIS WILL BE DETERMINED DURING LANCE'S PRESENTATION.					

Thursday, March 21					
8:00-8:10	Agenda/Outcomes	Review day's agenda, clarify anticipated outcomes.	Brenda		
8:10-9:00	Earned Value, Milestone Tracking System	Present status of earned value system proposed by HQ; discuss how to handle milestones that are delayed due to diverting assignments.	Don Mac.	Understand earned value, its impact on Project and its implications; understand how to deal with creation of new milestones.	

AGENDA

LOCATION: 2950 S. Highland

Las Vegas, NV

PAGE: 4 of 4

DATE: March 20-21, 1985

NNWSI PROJECT MANAGER-TECHNICAL PROJECT OFFICER MEETING

TIME	WHAT	HOW	WHO	EXPECTED OUTCOME	REF MATERIAL & COMMENTS
Thursday, March 21, Cont'd.					
9:00-10:15	CCB MEETING		Don/Chuck		Agenda sent 2/14 by CCB Secretary.
10:15-10:30	BREAK				
10:30-11:15	EA Finalization	Mini Agenda To Come	Mary Lou		
11:15-12:00	Issues Hierarchy	Mini Agenda To Come	Jean		
12:00-1:00	LUNCH				
1:00-2:30	SCP Management Plan & Meetings	Status - Mini Agenda To Come	Max		
2:30-3:00	OPEN ITEMS				
3:00-3:15	Action Items	Review action items generated in meeting.	Brenda/Don/TPDs	Agree on dates, responsibilities.	
3:15-3:25	April Agenda	Review items suggested during meeting and add as required.	Brenda/Don/TPDs	Agree on items suggested.	
3:25-3:30	Meeting Evaluation				

SCP MINI-AGENDA

- o CHANGES TO SCP MANAGEMENT PLAN
- o SCP QA LEVEL
- o QA AND TECHNICAL PROCEDURES RELEASE TO NRC/STATE/PUBLIC
- o EQUIPMENT COMPATIBILITY
- o UNRESOLVED CONCERNS
- o AUTHORSHIP OF SCP

SCP MANAGEMENT PLAN CHANGES
(2-21 to 3-18-85)

SECTION 1.0 (INTRODUCTION)

- o SCP SCHEDULE SLIP 12-27-85 TO 3-28-86 (DOE-HQ DELIVERY TO NRC)
- o SCP "PROGRESS REPORTS" REFERENCE (X-REF TO FED. REG. VOL. 50, #12, PG. 2589, 1-17-85)
- o MANAGEMENT PLAN APPROVAL WILL FOLLOW NNWSI QMP-06-03 (DOCUMENT REVIEW AND APPROVAL)
- o MANAGEMENT PLAN WILL BE PROJECT BASELINE DOCUMENT, CONTROLLED IN ACCORDANCE WITH QP 6.1 (DOCUMENT CONTROL)
- o NONCONFORMANCES TO MANAGEMENT PLAN WILL BE RECORDED IN ACCORDANCE WITH QP 15.1 (CONTROL OF NONCONFORMING ITEMS)

SECTION 2.0 (ORGANIZATION AND RESPONSIBILITIES)

- o CLARIFICATION OF TPO's SCP RESPONSIBILITIES AND AUTHORITY**

- o CLARIFICATION OF THE RESPONSIBILITIES OF THE TECHNICAL
ADVISORY GROUP AND THE PROJECT INTERNAL REVIEW COMMITTEES**

SECTION 3.0 (APPROACH)

- o INDICATION OF REG. GUIDE 4.17 AS THE BASIS OF THE SCP ANNOTATED OUTLINE (AO)
- o DEFINITION OF THE PROCEDURES TO BE USED TO RECOMMEND AO CHANGES

SECTION 4.0 (TECHNICAL DATA CHAPTERS)

- o REDEFINITION OF USGS TASK LEADERS
- o ELIMINATION OF THE WORK PLAN PREPARATION AS A PART OF THE DATA CHAPTER PREPARATION
 - REPLACED WITH INFORMATION NEED DATA OUTLINE (DESCRIBED IN SECTION 5.0)
- o ELIMINATION OF THE TECHNICAL PROCEDURES SUBMITTAL AS A PART OF THE DATA CHAPTER PREPARATION
 - WILL BE PROVIDED AS A REQUIREMENT FOR SECTION 8.6, QUALITY ASSURANCE PROGRAM

SECTION 5.0 (ISSUES AND PLANS CHAPTER)

- o REPLACEMENT OF THE WORK PLAN APPROACH TO SECTION 8.3, WITH AN INFORMATION NEED DATA OUTLINE APPROACH

- o REDEFINITION OF SECTION 8.3 RESPONSIBILITIES, TASK LEADERS, AND SUBSECTION AUTHORS

SECTION 6.0 (SCP PRODUCTION, REVIEW, AND CONTROL)

- o DOE-HQ REVIEW CHANGES
 - INCLUDING QA AUDITS OF COMMENT RESOLUTION
- o PROJECT INTERNAL REVIEW CHANGES
 - INFORMAL RATHER THAN FORMAL COMMENT TRACKING
 - CHAPTER/SECTION COORDINATORS AND AUTHORS REVIEW AFTER EACH TECHNICAL EDIT
- o EXPANDED PRESENTATION TO INDICATE THAT DOE-HQ WILL DO FINAL PRINTING AND DISTRIBUTION OF THE SCP
- o CLARIFICATION OF THE FUNCTIONS OF THE TECHNICAL ADVISORY GROUP AND THE PROJECT INTERNAL REVIEW COMMITTEES
- o REDEFINITION OF PROJECT INTERNAL REVIEW COMMITTEE MEMBERS

SECTION 7.0 (QUALITY ASSURANCE)

- o PROCESS OF SCP PREPARATION ASSIGNED A QUALITY LEVEL II
 - PER NVO-196-17 AND NNWSI SOP-02-02 - ASSIGNMENT OF QA LEVELS AND CRITERIA
- o EXPANDED DISCUSSION ON THE QA PROCEDURES TO BE FOLLOWED BY SAIC

SECTION 8.0 (SCHEDULE)

- o REVISION OF SCP DELIVERY DATE TO 3-28-86
- o REVISION OF SECTION 8.3 PREPARATION LOGIC AND SCHEDULE
 - WORK PLANS TO INFORMATION NEED DATA OUTLINES APPROACH
- o INCORPORATION OF PROJECT PARTICIPANT SCHEDULE/MILESTONE CHANGES

APPENDICES

- o DELETION OF EXPANDED WORK PLAN APPENDIX
- o ADDITION OF INFORMATION NEED DATA OUTLINE APPENDIX
- o ADDITION OF LIST OF ABBREVIATIONS AND ACRONYMS
- o ADDITION OF REFERENCE SCHEDULE (DATES AND DATA)

QA AND TECHNICAL PROCEDURES

RELEASE TO NRC/STATE/PUBLIC THROUGH THE SCP

- o FROM REG. GUIDE 4.17 (JULY 1984, PG. 4.17-62, SCP SECTION 8.6)

"ALTHOUGH ALL TEST PLANS AND PROCEDURES WILL NOT BE COMPLETED AT THE TIME OF SUBMISSION OF THE SCP, THOSE WHICH ARE COMPLETED SHOULD BE REFERENCED AND BE AVAILABLE FOR QA REVIEW."

- o FROM SCP ANNOTATED OUTLINE (FEBRUARY 1985, PG. 71, SCP SECTION 8.6)

"ALTHOUGH ALL TEST PLANS AND PROCEDURES WILL NOT BE COMPLETED AT THE TIME OF SUBMITTAL OF THE SCP, THOSE THAT ARE COMPLETED WILL BE REFERENCED AND AVAILABLE FOR QA REVIEW."

UNRESOLVED CONCERNS

1. STYLE GUIDE

- o LETTER SENT TO DOE/HQ REQUESTING STYLE GUIDE BY 3-22-85

2. ISSUES HIERARCHY

- o DELAY BEYOND 3-29-85 WILL DELAY THE START OF SCP SECTIONS 8.2 AND 8.3

3. INFORMATION NEED DATA OUTLINE

- o DATA OUTLINE TO BE USED AS INITIAL INPUT FOR 8.3, 8.5, 8.6
- o DEFINITION OF TESTS, EXPERIMENTS, PLANS AND PROCEDURES
- o EARLY AGREEMENT WITH OUTLINE IS NEEDED

4. PROCEDURES TO BE RELEASED TO NRC/STATE/PUBLIC

- o TECHNICAL AND QA PROCEDURES REFERENCED IN SCP - IMPLICATIONS ON PARTICIPANT REVIEW PROCESS

5. MAINTAINING THE SCP AS QUALITY LEVEL II DOCUMENT

- o NO ORIGINAL DATA/ANALYSES ALLOWED IN SCP
- o REQUIREMENT FOR SEPARATE DOCUMENTS FOR SNL AND LANL DESIGN DATA/ANALYSES

6. COPYRIGHT CLEARANCE FOR SCP REFERENCES

- o REFERENCES CITED MUST BE SUPPLIED BY PROJECT PARTICIPANTS
- o DOE-HQ GUIDANCE REQUEST (LETTER PENDING)

7. PROGRAM MANAGERS MEETING

- o PROPOSE DEVIATIONS TO AO
 - AT LEVEL ABOVE 3 (CHANGE CONTROL)
- o PROPOSE COMMON SUBSECTIONS (E.G., GLACIATION, 5.2.2.1)
- o PROJECT DEVIATIONS TO AO
 - AT FOURTH LEVEL (NO CHANGE CONTROL)

8. GET PARTICIPATION OF OTHER NVO SUBCONTRACTORS (REEC_o, H&N, F&S, EG&G, DRI) THROUGH NTSO

9. MEMBERSHIP FOR TECHNICAL ADVISORY GROUP

- LETTER REQUEST TO TPOs THIS WEEK

10. WORK INSTRUCTIONS

- o TWO SCP MEETINGS WHERE THEY WERE DISCUSSED WITH PROJECT PARTICIPANTS (REQUEST vs. ABILITY TO PROVIDE)
- o EXPECT TO BE APPROVED NEXT WEEK AND SENT TO TPOs FOR APPROVAL

3-21-85

EQUIPMENT COMPATIBILITY

SCP INPUT FROM PARTICIPANTS

HARD COPY

PLUS

WANG

OR

CT*OS

DISC



SAIC

WANG

AND

CT*OS

CAPABILITIES

WHY RAISE THE QUESTION OF AUTHORSHIP?

- o SOURCE OF CONFLICTS AMONG AND BETWEEN ORGANIZATIONS
SUBMITTING INPUT
- o SOURCE OF CONFLICTS BETWEEN ORGANIZATION CONTACTS
AND MANAGING EDITORS IN THE EA
- o INDIVIDUALS SUBMITTING INPUT DO NOT UNDERSTAND
COMPROMISES AND STEPS INVOLVED IN REACHING FINAL
TEXT WORDING

CAN WE DEVELOP A STRATEGY FOR AVOIDING
SIMILAR PROBLEMS WITH THE SCP?

3-21-85
TPO MEETING

EA EXPERIENCE

- o DRAFT INPUT FROM NNWSI ORGANIZATIONS
- o INTEGRATION BY EA TEAM & MANAGING EDITORS
- o REVISIONS BY TECHNICAL OVERVIEW COMMITTEE
- o REVISIONS BY DOE/HQ
- o PUBLISHED BY DOE/HQ AS DOE/RW-0012

WHO WAS THE AUTHOR OF THE EA?

SCP EXPANDING AUTHORSHIP "CONCEPT"

- o NNWSI PROJECT PARTICIPANTS PROVIDE INPUT THROUGH WORKING GROUP COORDINATORS
- o INTERNAL REVIEW COMMITTEE INCLUDING DOE/HQ PARTICIPANTS CONDUCTS CHAPTER BY CHAPTER REVIEW : CYCLE 1
- o FORMAL DOE/HQ REVIEW GROUP INCLUDING QA AUDIT SUGGESTS REVISIONS: CYCLE 2
- o INTERNAL REVIEW COMMITTEE (OVERVIEW) INCLUDING DOE/HQ PARTICIPANTS CONDUCTS REVIEW OF ENTIRE DOCUMENT: CYCLE 3
- o DOE/HQ CONDUCTS OFFICIAL PEER REVIEW INCLUDING QA AUDIT: CYCLE 4

FINALLY ISSUED AS DOE/RW-XXXX DOCUMENT??

3-21-85

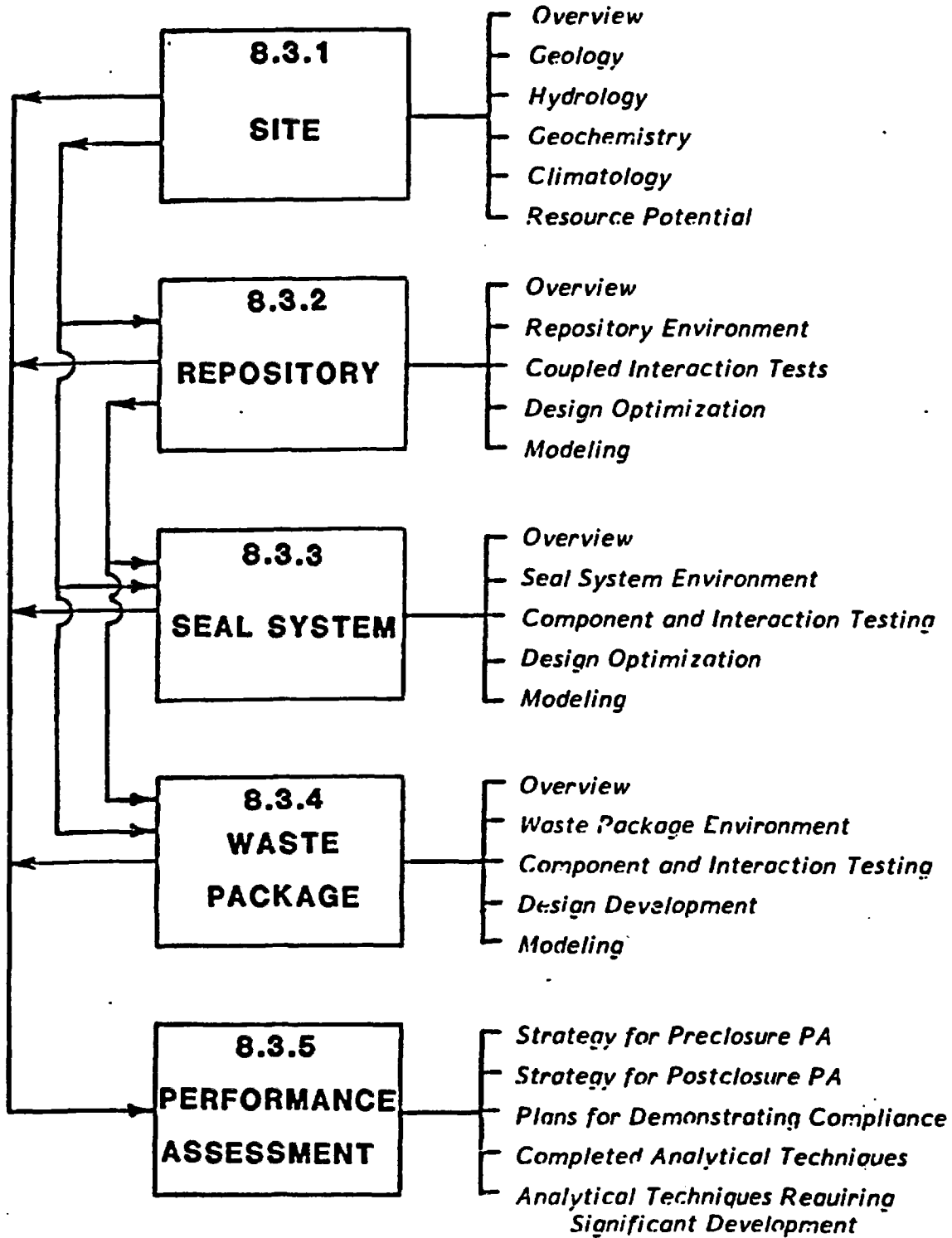
WHO IS THE SCP AUTHOR?

"AUTHOR OF DRAFT INPUT" + ORGANIZATION REVISIONS + NNWSI INTERNAL REVIEW COMMITTEE +
REVISIONS

DOE/HQ REVIEW GROUP REVISIONS + 2ND NNWSI INTERNAL REVIEW COMMITTEE +
REVISIONS

2ND DOE/HQ REVIEW GROUP REVISIONS + DOE/HQ PEER REVIEW REVISIONS = ?????

SUBSECTIONS OF 8.3



SECTION 8.3 CHANGES

CURRENT AO

- 8.3.1.1 Overview*
- 8.3.1.2 Geology*
- 8.3.1.3 Hydrology*
- 8.3.1.4 Geochemistry*
- 8.3.1.5 Climatology*
- 8.3.1.6 Resource Potential*

RECOMMENDED FORMAT CHANGE

- 8.3.1.1 Postclosure Issues*
 - 8.3.1.1.1 Geology/Hydrology*
 - 8.3.1.1.2 Geochemistry*
 - 8.3.1.1.3 Rock Characteristics*
 - 8.3.1.1.4 Climatic Changes*
 - 8.3.1.1.5 Erosion*
 - 8.3.1.1.6 Dissolution*
 - 8.3.1.1.7 Tectonics*
 - 8.3.1.1.8 Natural Resources*
- 8.3.1.2 Preclosure Issues*
 - 8.3.1.2.1 Surface Characteristics*
 - 8.3.1.2.2 Rock Characteristics*
 - 8.3.1.2.3 Hydrology*
 - 8.3.1.2.4 Tectonics*

CONTENTS OF INFORMATION NEED DESCRIPTIONS

A. WHY THE NEED EXISTS

- o DISCUSSION OF THE ROLE OF THE INFORMATION NEED
IN RESOLVING ITS PARENT ISSUE*

B. TECHNICAL BASIS FOR ADDRESSING THE NEED

- o DESCRIPTION OF PARAMETERS, VARIABLES, OR INFORMATION
ITEMS NEEDED TO SATISFY THIS INFORMATION NEED*
- o DISCUSSION OF HOW THESE PARAMETERS, TAKEN TOGETHER,
WILL BE USED TO SATISFY THE INFORMATION NEED*
- o PRESENTATION OF THE LOGIC WHICH DEMONSTRATES THAT
THESE PARAMETERS ARE NECESSARY AND SUFFICIENT TO
SATISFY THE INFORMATION NEED*
- o IDENTIFICATION OF REQUIRED INFORMATION DERIVED FROM
OTHER INFORMATION NEEDS*

C. TESTS, ANALYSES, AND STUDIES

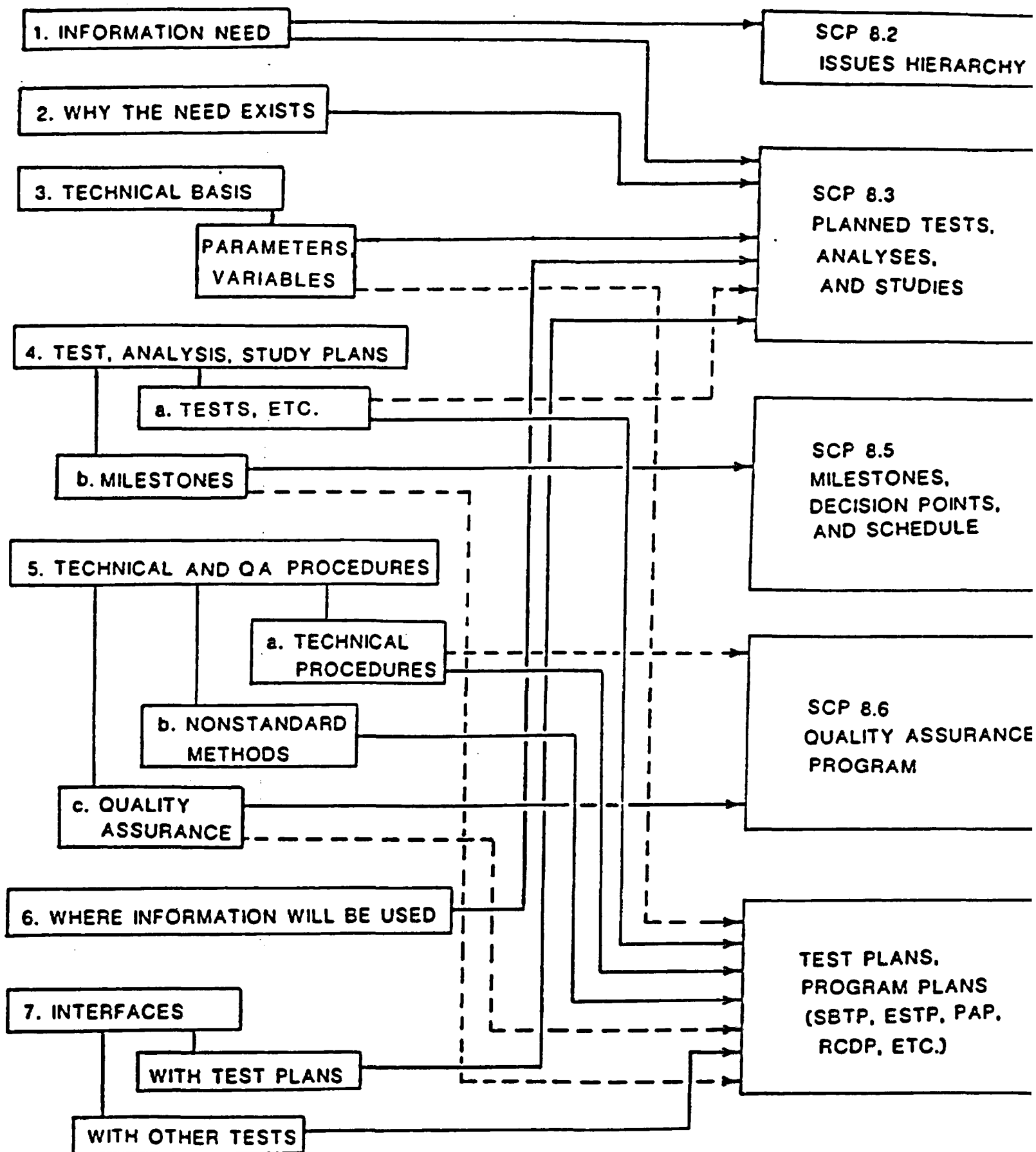
- o IDENTIFICATION (OR DESCRIPTION) OF PLANNED TESTS,
ANALYSES, AND STUDIES*
- o CROSS-REFERENCE TO TEST PLANS*

D. WHERE THE INFORMATION WILL BE USED

- o IDENTIFICATION OF OTHER ISSUES AND INFORMATION NEEDS
THAT WILL MAKE USE OF THIS INFORMATION*

INFORMATION FROM OUTLINE

WHERE INFORMATION IS USED



INFORMATION NEED DATA OUTLINE

INTRODUCTION

This outline will serve to accumulate the material from which the detailed information need descriptions in Section 8.3 will be written. Certain parts of the outline also request material that will go into SCP Sections 8.5 and 8.6, and the Test Plans (especially the SBTP).

1. Information Need Number and Title2. Why the Need Exists (for 8.3)

The Information Need is subordinate to a specific Issue and the role that the information need plays in resolving that Issue will be stressed. The specific use of the information need in addressing other Issues and Information Needs will be discussed under the heading "Where the Information Will Be Used" (item 6)

For Outline:

Provide "bulletized" statements which explain how the Information Need is critical to the resolution of its parent Issue

3. Technical Basis for Addressing the Need (for 8.3)

Part A will provide a description of the parameters, variables, or other information items that are necessary to satisfy the Information Need; Part B will develop the logical ties among these parameters, variables and information items, explain how these items, taken together, will be used to satisfy the Information Need, and demonstrate that these parameters are necessary and sufficient to satisfy the Information Need.

For Outline:

- a. A listing of the parameters, variables, or information items needed to address the Information Need. If a parameter, variable, or information item is likely to be provided by some other Information Need, make the appropriate cross-reference.
- b. "Bulletized" statements that outline how the parameters, variables, or information items, taken together, will be used to satisfy the Information Need. These statements should demonstrate 1) the logical tie among the information items listed in (a), and 2) the logic showing how these parameters, variables and information items are necessary and sufficient to satisfy the Information Need.

4. Test, Analysis, and Study Plans (for 8.3, 8.5, and Test Plans)

In 8.3: Section 8.3 will present the plans for obtaining the data needed to address the Information Need. This will include a tabulation (or descriptions) of the individual tests, analyses, and studies that are planned. Included in the tabulation will be a cross-reference to the Test Plans to indicate where the tests, analyses, and studies are described in detail.

In 8.5: Section 8.5 will include a listing of the milestones and deliverables related to resolving the Information Need.

In Test Plans: The Test Plans will describe the tests, analyses, and studies that will be used to obtain the data needed to address the Information Need. The Test Plans will also include a listing of the milestones.

For Outline:

- a. Tests, Analyses, and Studies list

Tabulate the individual tests, analyses, or studies that will be conducted, indicating the objectives of each and the projected beginning and ending dates. Cross-references to the Test Plans and the Work Breakdown Structure should also be provided here.

Test/Analysis/

<u>Study</u>	<u>Objectives</u>	<u>Begin Date</u>	<u>End Date</u>	<u>Test Plan</u>	<u>WBS Element</u>
(list using unique names)		(projected)	(projected)	(identify test plan and section number where detailed descrip- tion can be found)	

b. Milestones and deliverables

Provide a table of milestones and deliverables.

<u>Milestone Level</u>	<u>Milestone Number</u>	<u>Description</u>	<u>Delivery Date</u>
(ordered by level number)		(title)	

5. Technical and QA Procedures (for Test Plans and 8.6)

In Test Plans: The Technical Procedures to be used for obtaining the data needed to address the Information Need will be either described, or summarized and referenced in the Test Plans. Ideally, the Technical Procedures will be written as discrete documents which need only to be summarized and referenced in the Test Plans. Nonstandard methods and techniques will also be described in the Test Plans.

In 8.6: Section 8.6 will include a list of the Technical Procedures and an outline of the Quality Assurance Procedures to be used during Site Characterization.

For Outline:

a. Technical procedures list

<u>Procedure No.</u>	<u>Procedure Title</u>	<u>Status/Effective Date</u>
(give number and revision)	(give title)	(i.e., in preparation, in review, to be prepared or effective date)

b. Description of nonstandard methods and techniques

List any nonstandard methods and techniques to be used.

c. Quality assurance requirements

List the applicable:

- o QA Program Plans by number and title
- o QA Procedures by number and title

6. Where the Information Will be Used (for 8.3)

The Information Need descriptions in Section 8.3 will include subsections describing where the data gathered for this Information Need will be used. Included will be cross-references to specific Issues and Information Needs and any other project activities that require data from this Information Need.

DBJ
3/21/85

For Outline:

Provide a listing of other Issues and Information Needs that require data from this Information Need.

7. Interfaces (for Test Plans)

The Test Plans will include descriptions of the interfaces and interrelationships between the individual tests, analyses, and studies. This may include either tests within a single Test Plan, or tests described in different plans.

For Outline:

Tabulate the known interfaces. (Additional interfaces may be recognized as the site characterization program matures.)

Test/Analysis/Study

(list by unique name)

Related Test/Analysis/Study and Test Plan

(list by unique name, or description if necessary.
Name Test Plan where test is described)

8. P.I. and Contact

For Outline: Identify the Principal Investigator and the contact person for this Information Need. Give address and phone number of each.

DBJ
3/21/85

CHAPTER 8: OVERVIEW

PROBLEM FACING GROUP IS TO PRESENT PLANS TO OBTAIN INFORMATION TO DEMONSTRATE COMPLIANCE AND PERFORMANCE. IMPLICIT IN THIS TASK DESCRIPTION IS THE NEED TO RECOGNIZE SITE, REPOSITORY AND WASTE PACKAGE CHARACTERISTICS THAT ARE OF IMPORTANCE IN THE DEMONSTRATION.

SITE ● CHARACTERISTICS	REGULATORY REQUIREMENTS COMPLIANCE WITH AND PERFORMANCE IN TERMS OF: ● 40CFR191 ● 10CFR60 ● 10CFR960
REPOSITORY ● GEOMETRIC ASPECTS ● SITE INTERACTION	
WASTE PACKAGE ● MECHANICAL ASPECTS ● SITE INTERACTIONS	

MISSION PLAN

(CHAPTER 2)

- PRESENTS A GENERIC LIST OF ISSUES, BASED LARGELY ON 10CFR960, PRESENTED AS A HIERARCHY
- THE HIERARCHY IS SUPPORTED BY DETAILED GENERIC INFORMATION NEEDS AND TEST PLANS

CHAPTER 8

- 8.1 DESCRIBES, WITHOUT SPECIFICS, HOW THE PROGRAM FUNCTIONS AND MATURES
- 8.2 PRESENTS A SITE SPECIFIC ISSUE HIERARCHY THAT REFLECTS 10CFR60, 10CFR960 AND 40CFR191
- 8.3 PRESENTS SITE SPECIFIC INFORMATION NEEDS AND TEST PLANS ARRANGED IN THE HIERARCHY SUGGESTED BY 10CFR960

Chapter 8.1 Rationale for Planned Site Characterization Program

8.1.1 Identification of Information Needs

- o Describe, without recourse to specific examples, the process by which information needs were identified. The discussion must address the following topics.
 - a) Regulatory requirements that the characterization program must address. Mission plan generic issue hierarchy and test plans.
 - b) Conceptual scenarios and models describing physical phenomena, their interactions, and their effects on as well as how they are affected by site characteristics. Geometric and mechanical aspects of a waste package - repository system and its affects on/effect by the site characteristics.
 - c) In the context of conceptual scenarios, regulatory requirements etc., formulate models describing physical processes related to transport of radionuclides.
 - d) Description of preliminary strategy for examining performance of site, repository and waste package. This includes a description of the logic for combining information needs to answer the question posed by an issue, as well as logic for combining issues to answer a key issue.
 - e) Description of how the OCRWM system mission and the formal Mission Plan issue hierarchy, 10 CFR 60, 10 CFR 960 and 40 CFR 191 were used to develop the NNWSI Project issue hierarchy.
 - f) (from Clint Shirley) Describes how systems engineering methods of requirements identification, function analysis, and functional (performance) allocation of requirements, through SDD, will be used to mature the NNWSI Issues Hierarchy both in scope and detail.

- f) (alternate) Place "f" (conceptually) in 8.1.3. Conclude this section with description of manner by which issue hierarchy is correlated to ISTP, discussion of issue-oriented NRC workshops, discussion of how maturation process could lead to deletion of some issues and identification of new issues and information needs; discussion of evolution GRD to SDD and SD to ?.

The discussion in this section should also discuss the role of conceptual design, importance of the disturbed zone and functional performance requirements analysis.

This section can also be used to introduce the total issue hierarchy - site characterization issue hierarchy relationships and indicates general locations for treatment of non-site characterization issues. It should also indicate how preparation of EA and subsequent comments leads to issue/in ident.

8.1.2 Prioritization of Information Needs

This section will describe methods of prioritizing information needs, on basis of technical importance and schedule. The discussion should include the following topics:

- a) A description emphasizing the importance of professional judgment in both elimination of certain IN's as unimportant in the development of the issue hierarchy (i.e., must describe that mental process that sorts scenarios, models, probabilities, etc. -- most of which are conceptual at this time), as well as interaction between participants and management in activities such as ESTP test acceptance.
- b) Ongoing prioritization studies which examine system components at the present time. The maturation of these studies and attendant sophistication of performance assessment calculational capabilities should be discussed in the context of continual examination of IN priorities and possible redirection or redefinition of items of technical and/or schedule importance.

- c) A description of how ongoing workshops with NRC and State representatives can be a part of assessing the priority of certain data and information needs. These workshops can also be useful in assessing those areas where multiple test methodologies and redundant approaches to issue resolution are deemed appropriate.
- d) A discussion of how performance allocation relates to information need prioritization (if it does, or if it will, etc.) should be included.
- e) A discussion of a program management philosophy that attempts to define the products necessary to demonstrate compliance, and schedules activities in the appropriate sequence (i.e., schedule priority including cost-benefit considerations) should be described.

The maturation and evolving level of sophistication of these prioritization exercises should be emphasized. Also the importance of the performance assessment strategy and the project's inherent peer review process should be emphasized throughout this section.

8.1.3 Approach to Obtain Information

(NOTE: this is the section where BWIP intends to present their system requirement tree)

This section is intended to be the location for a description of, basically how the program is managed. The actions to be described are how common information needs are combined, how tests and studies are identified, how work plans are formulated and how detailed characterization plans are formulated. Much of this information is contained within the holistic process that leads to the identification of information needs. Specifically, this section could present:

- a) A description of the uniqueness of the information needs as evidenced by the transfer of information between information needs and issues, the hierarchical nature of the issue hierarchy, and the general outline for describing INs in 8.3.

- b) A discussion of the project management plan and its associated work plans.
- c) A discussion of ongoing program guidance activities.
- d) The development of an issue and commitment tracking system.

Conversely, this section could be used to describe the status, preparation cycle and eventual use of a Systems Engineering Management Plan (SEMP). A copy of DOE Order 4700 guidelines for preparation of a SEMP follows.

The System Engineering Management Plan shall include the following sections:

- a) Technical Planning and Control section identifies organizational responsibilities and authority for managing the system engineering process, including control of subcontracted engineering; levels of control established for performance and design requirements and the control method to be used; technical assurance methods; plans and schedules for design and technical reviews; and control of documentation.
- b) System Engineering Process section contains a detailed description of the process to be used, including the specific tailoring of the process to the requirements of the project and its contracts; the procedures to be used to implement the process; in-house documentation; tradeoff study methodology; the types of mathematical and/or simulated models to be used for system and cost effectiveness evaluations, if applicable; and the generation of specifications.
- c) Engineering Integration section describes the coordination of the engineering specialties, to achieve a best mix of the technical performance in the contract, with the detail specialty plans being summarized or referenced, as appropriate. This portion of the plan depicts the integration of the specialty efforts and parameters into the system engineering process and shows their consideration during

each iteration of the process. Where engineering specialties overlap, the responsibilities and authorities of each are defined in this part.

8.1.4 Utilization of Information

(NOTE: A.O. is relatively specific for this section)

This section will identify areas and activities where the information will be used in resolving issues and satisfying system requirements.

8.1.4.1 Determination of Whether Criteria Developed Pursuant to Section 112(a) of NWPA Are Met

This section will summarize how the information obtained during site characterization will be used in support of higher level findings of the guidelines. Relationships between site characterization specific plans, tests, and methods that will provide the basis for supporting these higher level findings and which are presented in Section 8.3 will be indicated.

8.1.4.2 Site Suitability

This section will describe the use of data in performance assessment and design processes to determine site suitability.

8.1.4.3 Issue Resolution

This section will discuss how information is used to resolve issues. The envisioned process for issue resolution will be described. The discussion should encompass descriptions of the role of workshops, performance assessment, design calculations, etc. A description of issue and commitment tracking methodologies is appropriate. Also reference to the regulatory compliance plan, with appropriate excerpts, appears to be required.

8.2 Issues to be Resolved and Information Required During Site Characterization

This section will discuss the origin of issues, the relationship of issues to the program, and the manner by which the program deals with issue resolution.

8.2.1 Issues to be Resolved

This section will present issues related to siting and design of a geologic repository operations area and waste package that are to be resolved using information obtained during site characterization. Issues will be defined in the SCP as questions (the definition will be expressed such that parameters, unless specifically requested by regulations, cannot be classified as issues) that must be answered or resolved to complete licensing assessments of a site and design suitability in terms of 10 CFR 60 and 10 CFR 960. Issues can be expressed in many different ways, in different categories. The Department of Energy has developed a formal issues hierarchy, documented in the Mission Plan, which is a comprehensive set of issues that will be used to correlate and address other issues that may be raised.

8.2.1.1 Mission Plan Issues

The Mission Plan issues will be presented in this section. These are the higher-level issues that must be addressed to complete licensing assessments of site and design suitability. The Mission Plan issues encompass the requirements of the siting guidelines (10 CFR 960). Issues addressed in the SCP are limited to those encompassed by the definition of Site Characterization in the Nuclear Waste Policy Act.

8.2.1.2 Site-Specific Issues

This section will present site-specific issues that are related to siting and design of a geologic repository operations area and waste package. These issues will be generally encompassed by the Mission Plan issues, but may be formulated from a different perspective and organized differently. A correlation between each of these "site-specific" issue sets and the Mission Plan issues will be presented. As needed, a correlation of information needs among issues will be provided. A correlation chart will be presented that indicates which project documents contain information relative to obtaining data to resolve issues. The discussions in the SCP will be limited to site characterization issues and to some (as yet undefined) extent design issues. Issues identified by the NRC in the Issue-Oriented Site Technical Position for the site will be addressed in this section.

8.2.2 Approach to Issue Resolution

This section will illustrate the manner by which information needs are used to answer the questions posed by the issues. The use of performance assessment, as applicable, in the resolution of issues will be described. Reference will be made to Section 8.3.4, as appropriate. This section will also present specific plans for issue resolution. A description of an issue-tracking system will be presented.

(The issue tracking system could be handled here, and in 8.1.4.3 by reference)

SCP QUALITY ASSURANCE

**SCP MANAGEMENT PLAN HAS BEEN DETERMINED TO BE A QUALITY
LEVEL II ACTIVITY IN ACCORDANCE WITH NNWSI SOP-02-02.
"ASSIGNMENT OF QA LEVELS TO NNWSI ACTIVITIES AND ITEMS."**

APPLICABLE QA CRITERIA TO BE IMPLEMENTED:

- o ORGANIZATION (SECTION 2.0)**
- o QA PROGRAM (SECTION 7.0)**
- o INSTRUCTIONS, PROCEDURES AND DRAWINGS
(SECTIONS 3.0, 4.0, 5.0, 6.0)**
- o DOCUMENT CONTROL (SECTIONS 1.0 AND 6.0)**
- o INSPECTION (QA FUNCTION) (SECTION 7.0)**
- o NON-CONFORMANCES (SECTION 1.0)**
- o QA RECORDS (SECTION 6.0)**
- o AUDITS (QA FUNCTION) (SECTION 7.0)**

APPLICABLE QA CRITERIA TO BE IMPLEMENTED: (CONT'D)

- **HANDLING, STORAGE, AND SHIPPING**
- **INSPECTION, TEST, AND OPERATING STATUS**
- **CORRECTIVE ACTION**

M.D. Vogel
3/5/85 (TV)

M.O. Voegelé

THE FOLLOWING INPUTS TO THE SCP MUST BE EVALUATED IN ACCORDANCE WITH NNWSI SOP-02-02 TO ESTABLISH THEIR QUALITY LEVEL AND THE QUALITY REQUIREMENTS TO BE APPLIED DURING THEIR PREPARATION:

- SURFACE-BASED TEST PLAN (SBTP)
- EXPLORATORY SHAFT TEST PLAN
- METEOROLOGICAL MONITORING PLAN (MMP)
- REPOSITORY CONCEPTUAL DESIGN PLAN (RCDP)
- REPOSITORY SEALING PLAN (RSP)
- PERFORMANCE ASSESSMENT PLAN (PAP)

THESE EVALUATIONS MUST BE SUBMITTED THROUGH THE REVIEW AND APPROVAL CHAIN SPECIFIED IN THE PROCEDURE

PI --- PQA --- TPO --- PI --- WMPO

EA UPDATE

- **PROGRESS SINCE FEBRUARY 21**
- **RESULTS OF MARCH 19 OCRWM STEERING GROUP MEETING**

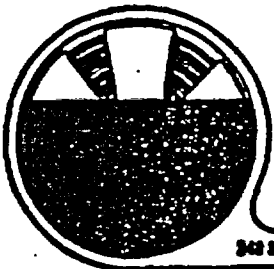
OBJECTIVE

PROGRESS SINCE FEBRUARY 21

- **COMMENT TRACKING SYSTEM**
- **ISSUE RESOLUTION SYSTEM**
- **DEFINE TOC REVIEW PROCESS**
- **OTHER EA REVISIONS**

COMMENT TRACKING SYSTEM

- **RECEIVE COMMENTS & STATUS SHEETS FROM WESTON**
- **NNWSI ORGANIZATION CHART**
- **EXPANDED ORGANIZATION CHART SHOWING CRA TASK**
- **DOCUMENT COVER SHEET**
- **COMMENT COVER SHEET**
- **FLOW DIAGRAM**



RESOURCE CONCEPTS INC.

ENGINEERING • ECONOMICS
RESOURCE PLANNING

340 N. MINNESOTA ST. • CARSON CITY, NEVADA 89701 • (702) 883-1888

January 14, 1985

U.S. Department of Energy
Nevada Operations Office
Post Office Box 14100
Las Vegas, Nevada 89114-4100

ATTENTION: Mr. Donald L. Veith, Director
Waste Management Project Office

RE: Inclusion of Lincoln County/City of Caliente Socioeconomic
Impact Analyses in Final Environmental Assessment

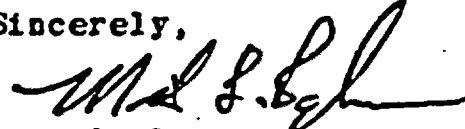
Dear Don:

1-T Mr. Glenn Van Roekel, Community Development Director for the City
of Caliente, and I were extremely disappointed in the failure of
2-T the Department of Energy to include any evaluation of possible
3-T socioeconomic impacts of the proposed repository to Lincoln County
and/or the City of Caliente. Based upon a preliminary review of
the Draft Environmental Assessment (EA), it would appear that
Caliente is the only area wherein the maximum assumed radiological
dosage impact described in the EA may occur. In addition, Mr. van
Roekel has stated that approximately five percent of the Lincoln
County work force is employed at the Test Site. A small per-
centage allocation of repository related work force could be very
significant to the public and private infrastructure in Lincoln
County and the City of Caliente.

4-T In responding to the Draft EA, Lincoln County and the City of
5-T Caliente intend to quantify, to the extent to which grant re-
sources and time allow, existing socioeconomic conditions and
6-T potential repository related impacts. The County and City would
appreciate your assurance that such analysis will be contained in
the body of the Final EA, rather than simply included in a comment
response document. I believe such incorporation of said informa-
tion is essential to ensuring that potential impacts to Lincoln
County and the City of Caliente, are ultimately evaluated during
site characterization and preparation of a full project related
environmental impact statement.

As I will be in the Las Vegas area on the morning of January 21,
1985, I would appreciate the opportunity to discuss this matter
with you and/or members of your staff at that time. Your con-
sideration and response to this request is appreciated.

Sincerely,


Mike L. Baughman
Project Manager

MLB:lf

ACTION VIET

CC: Blanchard

CC: Wolfe

CC: _____

CC: _____

Page No.
03/18/85

1

TUFF SUMMARY

PROJECT OFFICE MAILING REPORT and COMMENT ENTRY FORM
** Please Return to Weston Comments Manager ASAP **

Comm #	Classification	Status	EA Sites	Optional Remarks
-----	-----	-----	-----	-----

** Letter # 00020

00001	-----	-----	-----	
00002	-----	-----	-----	
00003	-----	-----	-----	
00004	-----	-----	-----	
00005	-----	-----	-----	
00006	-----	-----	-----	

** Letter # 00138

00002	-----	-----	-----	
00003	-----	-----	-----	
00004	-----	-----	-----	

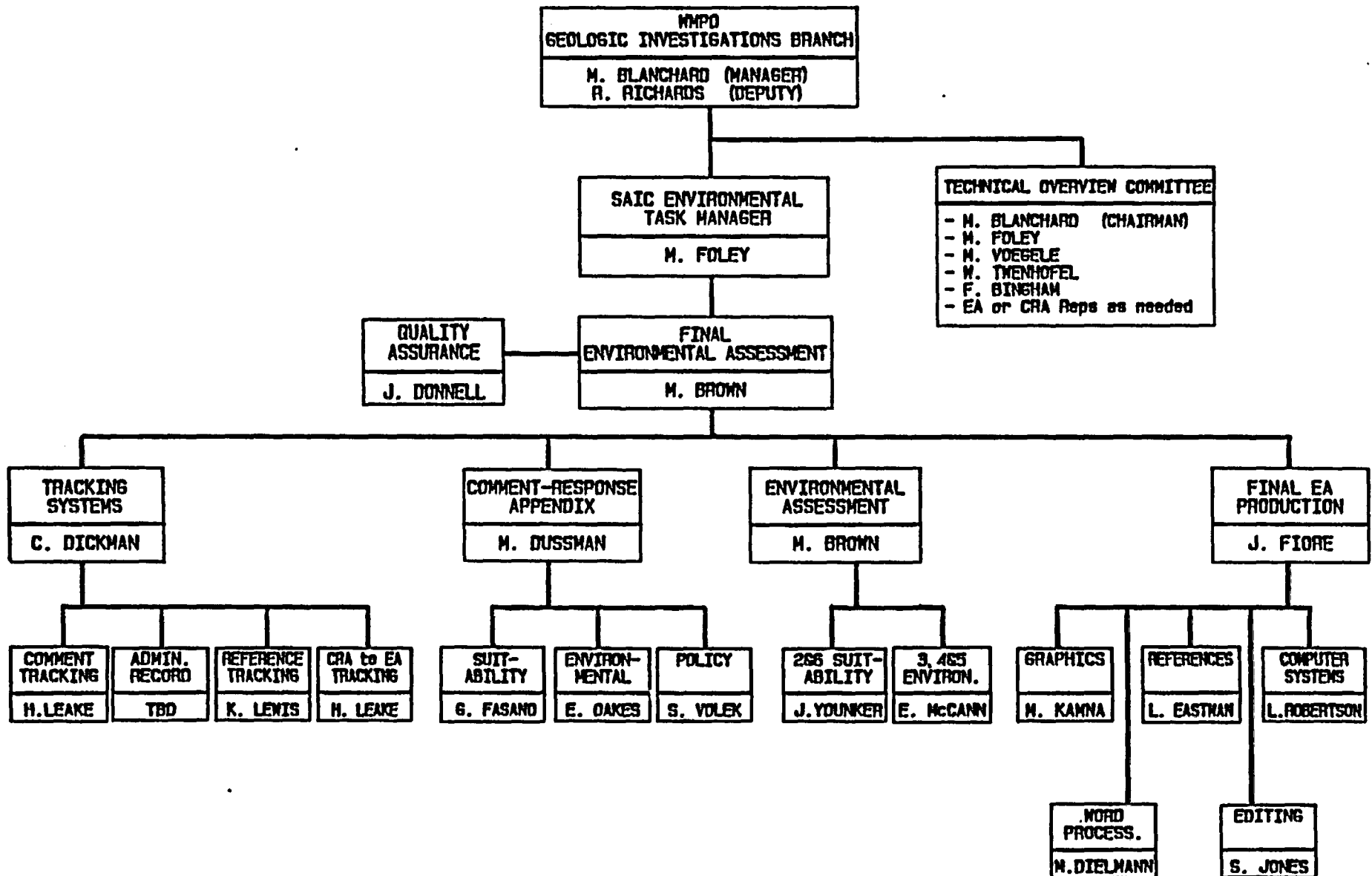
** Letter # 00266

00001	-----	-----	-----	
00002	-----	-----	-----	
00003	-----	-----	-----	
00004	-----	-----	-----	
00005	-----	-----	-----	
00006	-----	-----	-----	
00007	-----	-----	-----	
00008	-----	-----	-----	
00009	-----	-----	-----	

** Letter # 00300

00003	-----	-----	-----	
00006	-----	-----	-----	

NNWSI PROJECT EA ORGANIZATION



**COMMENT-RESPONSE
APPENDIX**

M. DUSSMAN

SUITABILITY

G. FASANO

SITING
-Sinnock
HYDROLOGY
-Dudley
GEOLOGY
-Dudley
PERF. ASSESS.
-Tierney
GEOCHEMISTRY
-DePoorter
ROCK CHARACTERISTICS
-Voegelé
TECTONICS
-McDougall

ENVIRONMENTAL

E. OAKES

LAND USE
-McCann
GEOLOGY
-Yunker
HYDROLOGY
-Yunker
ECOSYSTEMS
-Collins
AIR QUALITY
-Jablonaki
-Cover
NOISE
-Scardino
AESTHETICS
-McCann
ARCHAEOLOGY
-Pippin
RAD. SAFETY
-Belanger
-Clary
-Fitzsimmons
TRANSPORTATION
-Scardino
-Clark
-Belanger
SOCIOECONOMICS
-Alexander
-McKinnon
-Bradbury
-Rogozen

POLICY

S. VOLEK

WEAPONS
-Richards
LAND ACQUISITION
-Gassman
INDIAN
-Gassman
WMPO
-Roberts
-West
-Blanchard
-Vieth

DOCUMENT COVER SHEET

SAIC DOCUMENT NUMBER _____

WESTON DOCUMENT NUMBER _____

DATE WRITTEN _____

DATE RECEIVED _____

DATE RECORDED _____

NAME _____

AGENCY _____

ADDRESS _____

STATE _____

ZIP _____

*CATEGORY _____

COMMENT QUANTITY _____

*Federal

State

Local

General Public

Special Interest

Commercial .

COMMENT COVER SHEET

SAIC DOCUMENT NUMBER _____ WESTON COMMENT NUMBER _____

SAIC RESPONSIBLE INDIVIDUAL _____ PLANNED RESPONSE _____

TECHNICAL TEAM _____ COMMENT TYPE (EXACT OR PARAPHRASE): _____

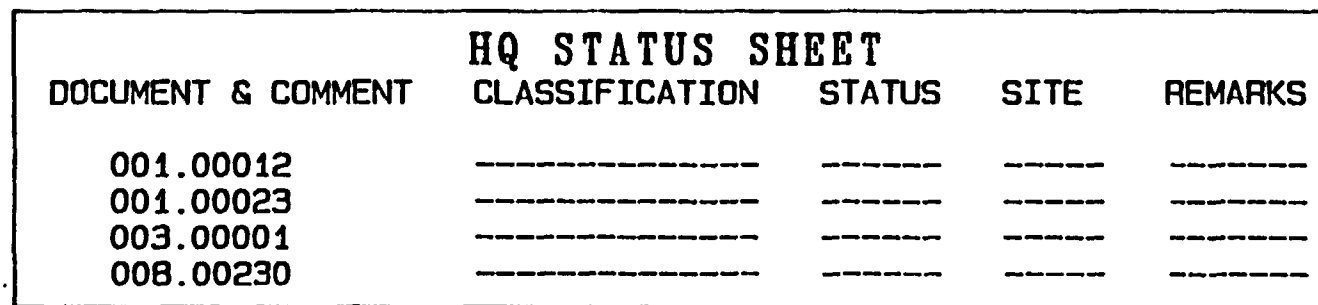
ACTUAL RESPONSE _____

EA CHANGE: YES/NO _____ CHAPTER _____ SECTION _____

CRA CHAPTER _____ CRA SECTION _____

KEYWORDS _____

COMMENT _____	ISSUE _____
_____	_____
_____	_____



ISSUE RESOLUTION SYSTEM

- 1. C/R MANAGER ASSIGNS ISSUE CATEGORY, RESOLUTION RESPONSIBILITY & SCHEDULE**
- 2. COMMENT MONITORS**
 - a) DRAFT RESPONSE TO ISSUES,**
 - b) DETERMINE IF EA REVISIONS ARE NECESSARY, OR**
 - c) ASSIGN a & b ABOVE TO TECHNICAL SUPPORT STAFF**
- 3. REVIEW OF RESPONSES BY ISSUE RESOLUTION COMMITTEE**
- 4. REVIEW OF EA REVISION RECOMMENDATIONS BY ISSUE RESOLUTION COMMITTEE**
- 5. REVISIONS**
- 6. REVIEW OF RESPONSES & EA REVISION RECOMMENDATIONS BY TOC**
- 7. REVISIONS**
- 8. PRODUCE DRAFT CRA**

**ISSUE RESOLUTION SYSTEM
(CONTINUED)**

- 9. HQ/PO REVIEW DRAFT CRA**
- 10. HQ/PO WORKSHOP ON ISSUE RESPONSE**
- 11. STATE/FEDERAL AGENCY CONSULTATION**
- 12. REVISE CRA**
- 13. DRAFT FINAL CRA**
- 14. HQ CONCURRENCE REVIEW**
- 15. CONCURRENCE REVISION (AS NECESSARY)**
- 16. CAMERA READY FINAL**
- 17. RW FINAL QUALITY REVIEW**
- 18. PRINTING**

DEFINE TOC REVIEW PROCESS

- **TPO REVIEW CONCURRENT WITH TOC REVIEW**

- **CHAPTERS TO BE STAGGERED AND DISTRIBUTED PRIOR TO TOC WORKSHOP TO ALLOW ADEQUATE REVIEW TIME**

- **NNWSI WORKSHOP TO DISCUSS PROPOSED REVISIONS TO DRAFT EA TO INCLUDE PARTICIPATION BY**
 - 1) TOC MEMBERS**
 - 2) TPO MEMBERS (OPTIONAL)**
 - 3) TECHNICAL STAFF AS NECESSARY**

OTHER EA REVISIONS

- **SANDIA & LATA AT WORK ON REVISIONS TO SECTION 5.1**

**EA STEERING GROUP MEETING
MARCH 19, 1985**

- **MANAGEMENT ISSUES**
- **COMMENT RESPONSE TRACKING GROUP ISSUES**
- **ISSUE RESOLUTION TASK GROUP ISSUES**
- **PRODUCTION COORDINATION TASK GROUP ISSUES**

MANAGEMENT ISSUES

- 1) WILL ALL NINE EAs BE FINALIZED FOR AUGUST PUBLICATION OR ONLY THOSE FOR THE NOMINATED SITES?**

RESOLUTION:

- ONLY FIVE EAs WILL BE FINALIZED**

PROCESS AND SCHEDULE FOR PREPARATION OF FINAL EAs

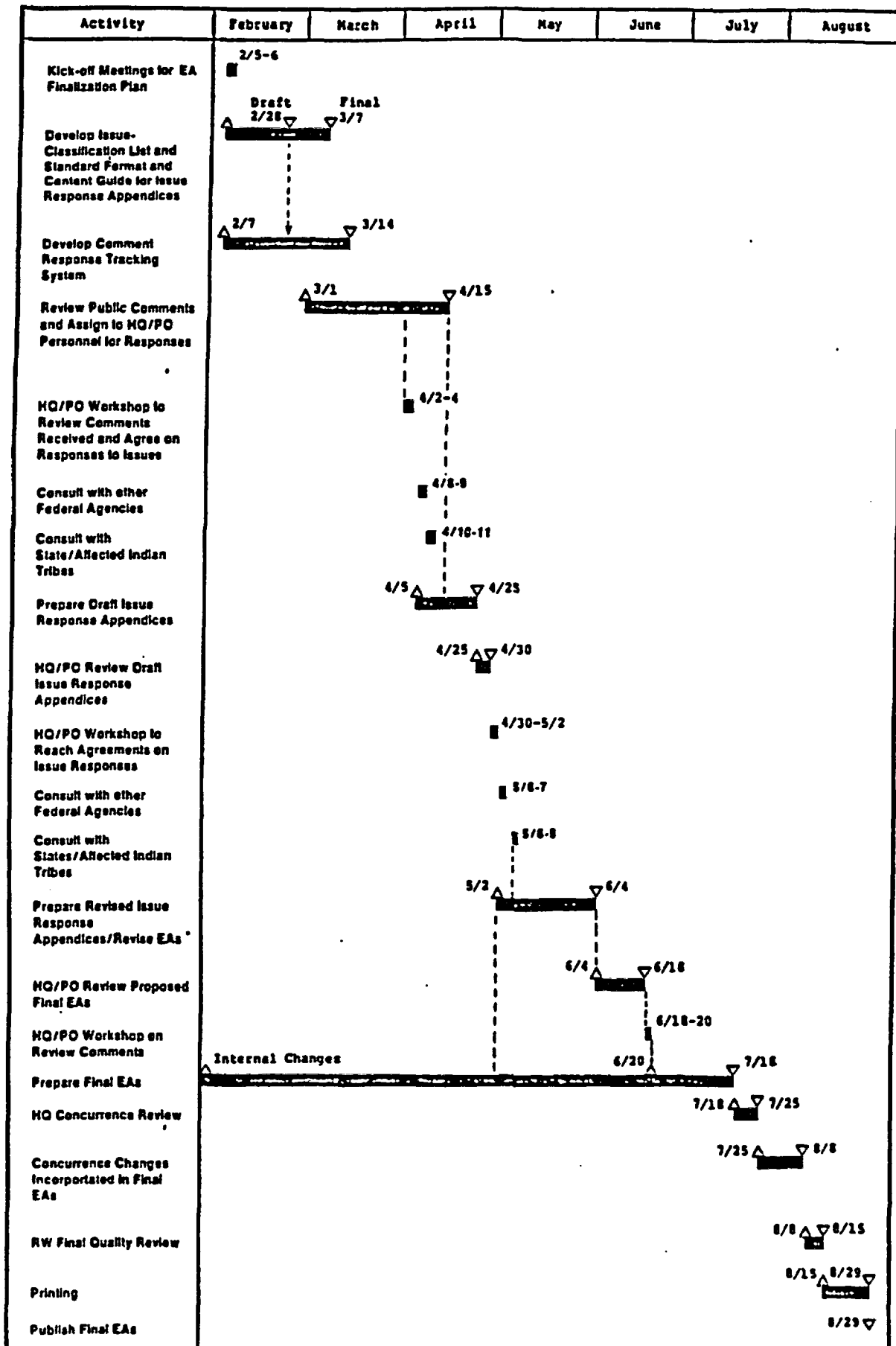


Figure 1-1

MANAGEMENT ISSUES

2) THE SPECIFIC SCHEDULE FOR FINALIZING THE EAs

RESOLUTION:

- **AUGUST 29, 1985 NOW OFFICIAL DATA FOR PUBLICATION BUT WITH FLEXIBILITY TO SLIP DAY-TO-DAY BASED ON LATE COMMENT RECEIPT - TO BE RECONSIDERED IN MID-APRIL**
- **DRAFT CRA EXPECTED BY APRIL 25, 1985**
- **APRIL 2-4 WORKSHOP RESCHEDULED TO APRIL 16-18. CONSIDERING NRC COMMENTS AND HEARING TRANSCRIPTS, WHAT ARE THE MAJOR ISSUES CONFRONTING PREPARATION OF CRA AND REVISED EA?**
- **NRC COMMENTS EXPECTED MARCH 20 AT HQ**
- **NRC COMMENTS TO POs MARCH 29**

MANAGEMENT ISSUES

2) SCHEDULE CONTINUED

PROBLEMS:

- **SOME STATE COMMENTS NOT EXPECTED BEFORE MAY 20**
- **ONLY NNWSI PROJECT HEARING TRANSCRIPTS RECEIVED BY OCRWM**
- **EXTENSIVE CONSULTATION WITH STATES AND FEDERAL AGENCIES WILL BE DELAYED BEYOND MID-APRIL**
- **INADEQUATE PRODUCTION AND REVIEW TIME IN CURRENT SCHEDULE - AT LEAST 6 WEEKS ADDITIONAL REQUESTED**
- **INADEQUATE HQ/WESTON STAFF TO IDENTIFY COMMENTS**
- **MISSION PLAN IMPACTS**
- **DOE/HQ TRANSPORTATION GROUP RESOURCE LIMITED**

MANAGEMENT ISSUES

3) RESOURCE CONFLICTS DURING EA FINALIZATION

- **PRIMARYLY EA-SCP PLUS ENV. & SOCIOECON. FIELD PLANS**

RESOLUTION:

- **HQ MEMO OUT REQUESTING SPECIFICS OF CONFLICTS**
- **EA/SCP ASSIGNED EQUAL PRIORITY (BURTON ASSUMES THAT POS WILL KEEP EA NO. 1 UNLESS HQ DIRECTED OTHERWISE ON A CASE-BY-CASE BASIS)**

MANAGEMENT ISSUES

4) MISSION PLAN IMPACTS

RESOLUTION:

- **COMPLETE CONSISTENCY REQUIRED**

PROBLEMS:

- **MRS TO BE ANNOUNCED BEFORE EA PUBLICATION**
- **TRANSPORTATION MAJOR ISSUE**
- **AD HOC COMMITTEE TO BE FORMED**
- **NO DEFINITION OF CONSISTENCY**

MANAGEMENT ISSUES

5) CONSULTATION PROCESS IN EA FINALIZATION

RESOLUTION:

- **TWO LEVELS OF CONSULTATION REQUIRED**
 - (a) CLARIFY COMMENTS**
 - (b) DOE RESPONSE TO COMMENTS**
- **IN STATE CAPITOL FOR STATES**
- **PRE-NOTIFICATION OF CLARIFICATION REQUIRED**

PROBLEMS:

- **EACH CONSULTATION MEETING MAY PRODUCE ADDITIONAL COMMENTS WHICH MUST BE ADDRESSED**
- **CANNOT BE HELD UNTIL COMMENTS RECEIVED**
- **OTHER FEDERAL AGENCIES - EPA, NRC, DOI INCLUDED**
- **NAS MAY ALSO BE INVOLVED - COMMENTS ANTICIPATED**

COMMENT RESPONSE TASK GROUP ISSUES

1) RESPONSIBILITY FOR EA ADMINISTRATION RECORD

RESOLUTION:

- **EACH RESPONSIBLE FOR THEIR OWN**
- **HQ TO PROVIDE ALL COMMENTS TO PUBLIC READING ROOM**

ISSUE RESOLUTION TASK GROUP ISSUES

1) CLOSURE ON COMMENT CLASSIFICATION SYSTEM

RESOLUTION:

- **NNWSI & BWIP AGREE BUT SRPO WILL NOT CLASSIFY BELOW LEVEL 3**

PROBLEMS:

- **SRPO DOES NOT AGREE AND MAY RESULT IN INCONSISTENT CRA FORMAT**

PRODUCTION COORDINATION TASK GROUP ISSUES

1) SPECIFIC FORMAT AND STYLE GUIDANCE

RESOLUTION:

- **EACH PO WILL USE THE SAME FORMAT AND STYLE AS IN THE DRAFT EA EXCEPT NO OVERSIZED PULL-OUTS ALLOWED**
- **HQ TO EVALUATE ADAPTING THEIR SECTIONS TO INDIVIDUAL PO FORMATS**

OUTCOME OF MARCH 18-19 WORKING
GROUP MEETING

- o GROUP CONSENSUS AT THE ISSUE LEVEL
- o INFORMATION NEEDS FOR KEY ISSUE 1.0 (POSTCLOSURE)
ARE CLOSE TO FINAL
- o INFORMATION NEEDS FOR OTHER KEY ISSUES HAVE BEEN
REVISED ACCORDING TO AGREEMENTS REACHED BY GROUP
- o COMPLETE PACKAGE OF INFORMATION NEEDS WILL BE
OUT TO GROUP FOR REVIEW BY MARCH 22
- o COMMENTS DUE BACK TO SAIC BY MARCH 25 AND FINAL
DRAFT OF ISSUES HIERARCHY AVAILABLE MARCH 26
- o FINAL DRAFT FAXED TO TPOs AND GIVEN TO WMPO ON
MARCH 26 FOR READ-IN ON MARCH 28-29
- o STILL HEADING FOR AN APRIL 1 "APPROVAL" DATE

DEVELOPMENT OF WRITTEN LOGIC TO
ACCOMPANY ISSUES HIERARCHY

- o WRITTEN LOGIC EXPLAINING OVERALL STRUCTURE IS BEING PREPARED
- o DRAFT LOGIC FOR DESIGN AND PERFORMANCE ISSUES IS IN REVIEW BY COMMITTEE
- o DRAFT LOGIC FOR CHARACTERIZATION ISSUES IS BEING PREPARED
- o ENTIRE PACKAGE WILL BE PROVIDED ALONG WITH ISSUES HIERARCHY TO WMPO/TPO's PRIOR TO "READ-IN" SCHEDULED FOR MARCH 28-29
- o LOGIC FOR ISSUES HIERARCHY WILL SERVE AS BASIS FOR PARTS OF SCP SECTIONS 8.1 & 8.2.

APPROACH TO "FINALIZATION" OF ISSUES HIERARCHY

- o WMPO/TPO READ-IN WILL GENERATE FURTHER REVISIONS AND CHANGES IN LOGIC
- o WRITING INFORMATION NEED OUTLINES WILL HELP MATURE THE INFORMATION NEEDS AND IDENTIFY LOGIC PROBLEMS
- o WRITING SECTION 8.3 AND DEVELOPMENT OF SUPPORT PLANS (PAP, ESTP, SBTP) WILL ALSO GENERATE ADDITIONS/DELETIONS OF INFORMATION NEEDS
- o SITE CHARACTERIZATION PROCESS COULD CAUSE MODIFICATIONS IN INFORMATION NEEDS
- o KEY POLICY/PROGRAMMATIC DECISIONS MAY CAUSE CHANGES

IS "FINALIZATION" THE CORRECT CONCEPT????

HOW SHOULD ISSUES HIERARCHY BE BASELINED?

- o ISSUED AS OFFICIAL WMPO PROJECT DOCUMENT AND SUBJECT TO FORMAL CHANGE CONTROL BOARD PROCESS
- o SUBJECT ISSUES TO FORMAL CHANGE CONTROL AND LEAVE FLEXIBILITY AT INFORMATION NEED LEVEL WITH OFFICIAL RESPONSIBILITY FOR CHANGES GIVEN TO SCP MANAGER, OR SOMEONE ELSE
- o NO FORMAL CHANGE CONTROL AND GIVE RESPONSIBILITY FOR CHANGES TO SCP MANAGER, OR SOMEONE ELSE

KEY ISSUE 1: Will the geologic repository at the Yucca Mountain site, including multiple natural and engineered barriers, isolate the radioactive waste from the accessible environment after closure in accordance with the requirements set forth in 10 CFR Part 60 and 40 CFR Part 191.

CHARACTERIZATION ISSUES

- ISSUE 1.1: Will the present and expected geohydrologic setting be compatible with containment and isolation?
- ISSUE 1.2: Will the present and expected geochemical characteristics be compatible with waste containment and isolation?
- ISSUE 1.3: Will the present and expected characteristics of the host rock and surrounding units be compatible with containment and isolation?
- ISSUE 1.4: Will future climatic conditions lead to radionuclide releases greater than those allowed by regulations?
- ISSUE 1.5: Will the depth of the underground facility be such that surface erosion will not lead to releases greater than those allowed by regulations?
- ISSUE 1.6: Will any subsurface rock dissolution within the geologic setting lead to radionuclide releases greater than those allowed by regulations?
- ISSUE 1.7: Will future tectonic processes or events within the geologic setting lead to radionuclide releases greater than those allowed by regulations?
- ISSUE 1.8: Will natural resources at or near the site cause human interference activities that could lead to radionuclide releases greater than those allowed by regulations?

DESIGN ISSUES

- ISSUE 1.9: Will the waste package be compatible with, and give reliable performance in, the emplacement environment?
- ISSUE 1.10: Will the underground facility contribute to containment and isolation?
- ISSUE 1.11: Will seals for shafts and boreholes compromise containment and isolation?

PERFORMANCE ISSUES

- ISSUE 1.12 What are the effects of repository development on site characteristics?
- ISSUE 1.13 Will the waste package provide substantially complete containment for at least 300-1000 years?
- ISSUE 1.14 Will the engineered barrier system meet the performance objective for radionuclide release rates?
- ISSUE 1.15 Is the ground-water travel time at least 1000 years along the fastest path of likely radionuclide travel from the disturbed zone to the accessible environment?
- ISSUE 1.16 Will the projected range of radionuclide releases to the accessible environment meet the system performance objective?
- ISSUE 1.17 What are the effects of favorable and potentially adverse conditions on repository performance?

KEY ISSUE 2: Will projected radiological exposures of the general public and repository workers, and releases of radioactive materials to restricted and unrestricted areas during repository operation and closure at the Yucca Mountain site meet applicable safety requirements set forth in 10 CFR Part 20, 10 CFR Part 60, and 40 CFR Part 191?

CHARACTERIZATION ISSUES

- ISSUE 2.1: Will the population density and distribution in the vicinity of the site be compatible with preclosure radiological safety requirements?
- ISSUE 2.2: Will the prevailing meteorological conditions be compatible with preclosure radiological safety requirements?
- ISSUE 2.3: Will the presence of offsite installations and operations, together with the natural radiation environment, be compatible with the preclosure radiological safety requirements?

DESIGN ISSUES

- ISSUE 2.4: Will the waste packages maintain containment during handling, emplacement, and retrieval?
- ISSUE 2.5: Will the general features of the geologic repository operations area ensure radiological protection?
- ISSUE 2.6: Will the specific features of the surface facilities ensure radiological protection?
- ISSUE 2.7: Will the specific features of the underground facility ensure radiological protection?

PERFORMANCE ISSUES

- ISSUE 2.8: Will radiological exposures and releases of radioactive materials to, unrestricted areas be less than the allowable limits?

KEY ISSUE 3: Can the repository and its support facilities be sited, constructed, operated, closed, and decommissioned at the Yucca Mountain site without causing unacceptable risks to public health and safety and unacceptable environmental, socioeconomic, and transportation impacts?

CHARACTERIZATION ISSUES

- ISSUE 3.1: What are the existing environmental conditions?
- ISSUE 3.2: What are the existing socioeconomic conditions?
- ISSUE 3.3: What are the existing transportation conditions?

DESIGN ISSUES

- ISSUE 3.4: What features of the repository will protect the public and the environment from significant adverse impacts?
- ISSUE 3.5: What features of the repository will avoid or mitigate significant adverse socioeconomic impacts in communities and surrounding regions?
- ISSUE 3.6: What features of the repository will avoid or mitigate significant offsite impacts from transportation?

ASSESSMENT ISSUES

- ISSUE 3.7: Will the quality of the environment be adequately protected?
- ISSUE 3.8: Will significant adverse socioeconomic impacts be avoided or mitigated?
- ISSUE 3.9: Will significant adverse impacts from transportation be avoided or mitigated?

KEY ISSUE 4: Will repository construction, operation (including retrieval), closure, and decommissioning be feasible at the Yucca Mountain site on the basis of reasonably available technology and will the associated costs be reasonable?

CHARACTERIZATION ISSUES

- ISSUE 4.1: Will the surface characteristics and conditions be compatible with the construction, operation, closure, and decommissioning of a repository?
- ISSUE 4.2: Will the characteristics of the host rock and surrounding units be compatible with the construction, operation, and closure of a repository?
- ISSUE 4.3: Will the hydrologic conditions be compatible with the construction, operation, closure and decommissioning of a repository?
- ISSUE 4.4: Will the expected tectonic phenomena be compatible with the construction, operation, closure, and decommissioning of a repository?

DESIGN ISSUES

- ISSUE 4.5: Can the waste package be produced with reasonably available technology?
- ISSUE 4.6: Will the design and operating procedures of the repository ensure non-radiological health and safety?
- ISSUE 4.7: Can the repository be constructed, operated, closed, and decommissioned with reasonably available technology?
- ISSUE 4.8: Will the repository system be cost-effective?

PERFORMANCE ISSUE

- ISSUE 4.9: Will the design of the repository system preserve the option of waste retrieval?