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January 14, 1985

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

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

PTP

Subject: NNWSI Site Report for Week of January 7, 1985

I. On January 8th, the DOE-NNWSI conducted a briefing on the Yucca Mountain Draft EA for state and local government officials in Carson City, Nevada. The agenda and a list of participants is enclosed.

Don Vieth, J. J. Fiore (DOE Hq.), and Max Blanchard conducted the briefing. Technical input was provided by Tom Hunter (Sandia), Bill Dudley (USGS), and several individuals from SAIC.

After general introductory remarks by Bob Loux, Director; State of Nevada Nuclear Waste Project Office, Don Vieth opened the briefing by introducing the NNWSI personnel and giving an overview of the NNWSI Draft EA effort. He explained the structure and content of the Draft EA, and the DOE's process for conducting the review of the Draft EA. Dr. Vieth provided a definition and schedule for the public briefings and hearings to be conducted by the NNWSI, and a description of how formal written comments will be handled.

Jim Fiore described the methodology used in the identification of potentially acceptable sites. He explained how the Draft EA fit into the requirements of the NWPA, and how 10 CFR 960 was used to develop the Draft EA. He described, in more detail, the content of the Draft EA; and described Chapters 1 and 7, and the two appendices. He finished his presentation by outlining the schedule for final nominations and recommendations, and the proposed schedule for first repository siting, construction, and operation to full operation in the year 2002.

Max Blanchard closed the formal presentation by again describing the Draft EA for Yucca Mountain, as required by the

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NWPA. He described, in detail, the content of Chapters 2 through 6. After Blanchard's presentation, the meeting was opened for questions.

Very few members of the audience had had an opportunity to review the Draft EA. Many had not received a copy prior to the briefing. Therefore, the questions asked were general in nature. The following are examples:

- ...Will a comment response document be issued, and will all comments be printed? What format will be used?
- ...Has the NRC endorsed the two-phase construction plan for the repository?
- ...When will all references cited in the Draft EA be available?
- ...Will new information acquired through the ongoing investigation of Yucca Mountain, between issuance of the Draft EA and the Final EA, be included in the Final EA?
- ...The review period clock should start when all reviewers have received the Draft EA and the cited references. Middle of January, 1985?
- ...Will comments from other Federal agencies be made available to all reviewers?
- ...A number of questions concerning transportation of high level waste to a repository.
- ...How does an MRS affect transportation?

The afternoon session was conducted by Bob Loux, and dealt with the details of the State's review of the Draft EA. The NNWSI personnel were not present.

Copies of the viewgraphs used by the NNWSI are enclosed, as well as the list of State reviewers.

II. On January 11, a meeting was held at WMPO, Las Vegas, on the tectonics of Yucca Mountain. Present at the meeting were personnel from the DOE-WMPO, SAIC, Sandia Labs, Blume Assoc., and Weston (Bob Jackson). As I understand it, the purpose of the meeting was to explore the planning of both generic and site specific tectonic criteria. Jerry Szymanski, WMPO, asked me to briefly tell the group what the NRC was doing in this area.

After consultation with RP and GT personnel, I told the group that the NRC technical staff was in the process of writing a technical position on tectonics; and that this document was scheduled for release at the end of 1985. Meetings were ongoing within the NRC technical staff, and that the NRC position on tectonics was in the early, formulative stage. I stated that the NRC technical staff would welcome discussions with the DOE on both generic and site specific criteria. Bob Jackson stated that he would recommend to DOE Hq. that a first meeting be held in the Washington, D. C. area in the next several months.

III. The January TPO meeting will be held in La Jolla, California, at the SAIC Hq. facility. I am planning on attending this meeting.

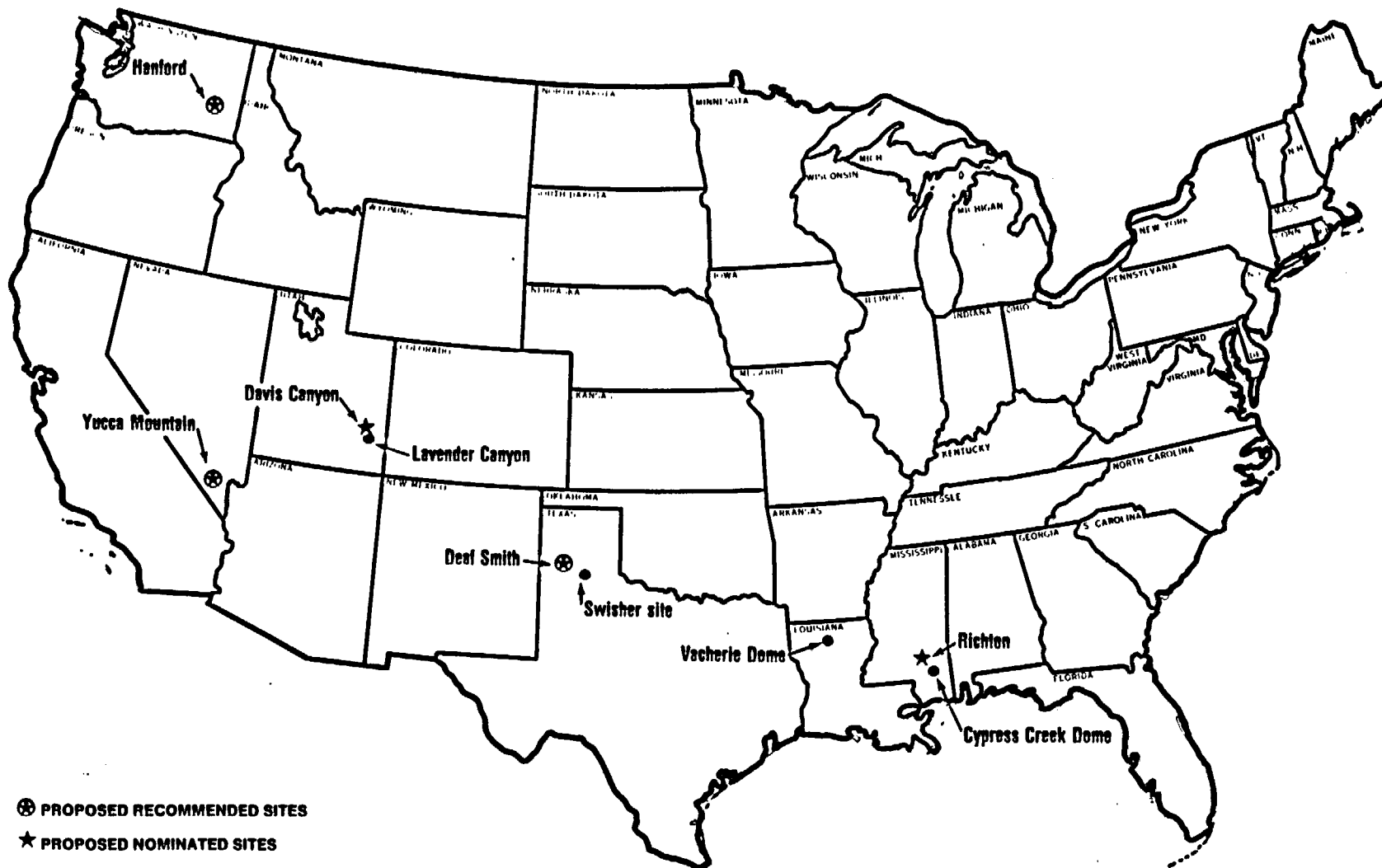
IV. Because of travel restrictions, I am not planning on attending the EA hearing to be held in Reno, Nevada on February 28. I will attend the briefings and hearings held in southern Nevada.

V. Mr. William Bland Jr., NRC QA Consultant, will be in Las Vegas the week of January 21. I've made an appointment for Mr. Bland with Art Jarvis, EPA, on the 22nd. On the 23rd, I will escort Mr. Bland to the Test Site and Yucca Mountain; and on the 24th, Mr. Bland will meet with Jim Blalock, WMPO, QA Director.

NUCLEAR WASTE POLICY ACT PROCESS

- IDENTIFY POTENTIALLY ACCEPTABLE SITES (PASs)
- ISSUE SITING GUIDELINES
- PUBLISH ENVIRONMENTAL ASSESSMENTS
- NOMINATE AT LEAST 5 PASs
- RECOMMEND 3 FOR CHARACTERIZATION
- RECOMMEND 1 FOR REPOSITORY

*Enclaves to 1/1/85
to 1/1/85 from 1/1/85*
File 102



PROPOSED SITE NOMINATIONS AND RECOMMENDATIONS FOR FIRST REPOSITORY

EVALUATIONS REQUIRED BY NWPA OR SITING GUIDELINES FOR RECOMMENDATIONS

- 1. DESCRIBE DECISION PROCESS**
- 2. APPLY DISQUALIFYING CONDITIONS TO SITES**
- 3. GROUP SITES INTO GEOHYDROLOGIC SETTINGS**
- 4. SELECT PREFERRED SITES**
- 5. EVALUATE SUITABILITY**
 - REPOSITORY DEVELOPMENT**
 - SITE CHARACTERIZATION**
- 6. ASSESS IMPACTS OF REPOSITORY**
- 7. ASSESS IMPACTS OF SITE CHARACTERIZATION**
 - ALTERNATIVES TO MINIMIZE**
- 8. COMPARE NOMINATED SITES**
- 9. DEVELOP ORDER OF PREFERENCE FOR RECOMMENDATIONS**

CONTENT OF DRAFT EAs

EXECUTIVE SUMMARY

CHAPTER 1 (COMMON)	}	DECISION PROCESS
2		
3		SITE DESCRIPTION
4		IMPACTS OF SITE CHARACTERIZATION
5		IMPACTS OF LOCATING REPOSITORY
6		SUITABILITY UNDER GUIDELINES
7 (COMMON)		COMPARATIVE EVALUATION: PROPOSED NOMINATIONS AND RECOMMENDATIONS
APPENDIX A (COMMON)		GENERIC TRANSPORTATION DATA
B (COMMON)		DECISION METHODOLOGY FOR CHAPTER 7

SCHEDULE FOR FINAL NOMINATIONS & RECOMMENDATIONS

- **PUBLIC COMMENT PERIOD CLOSURES — 3/20/85**
- **CONSULT WITH STATES/AFFECTED TRIBES — SPRING 85**
- **PUBLISH FINAL EAs — SUMMER 85**
- **FORMAL NOMINATIONS AND RECOMMENDATIONS TO PRESIDENT — SUMMER 85**
- **PRESIDENT APPROVES 3 SITES FOR CHARACTERIZATION — SUMMER/FALL 85**

SCHEDULE FOR FIRST REPOSITORY SITING, CONSTRUCTION, AND OPERATION

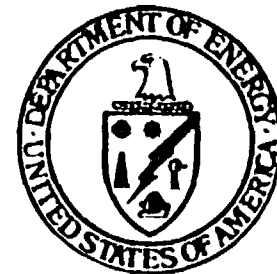
- **EXPLORATORY SHAFT CONSTRUCTION INITIATED**
 - **HANFORD SITE (SPRING 1986)**
 - **YUCCA MOUNTAIN SITE (SUMMER 1986)**
 - **DEAF SMITH SITE (SPRING 1987)**
- **ISSUE DRAFT EIS ON SITE SELECTION — 1990**
- **PRESIDENT RECOMMENDS SITE — 1991**
- **LICENSING COMPLETED — 1993/94**
- **COMPLETE PHASE I CONSTRUCTION — 1997**
- **BEGIN PHASE I OPERATION — 1998**
- **COMPLETE PHASE II CONSTRUCTION — 2000**
- **BEGIN FULL OPERATION — 2002**

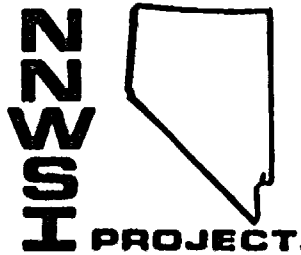


**Nevada
Nuclear Waste
Storage Investigations Project**

**Discussion of
YUCCA MOUNTAIN
ENVIRONMENTAL ASSESSMENT
for Nevada State Officers**

**Nevada Operations Office
UNITED STATES DEPARTMENT OF ENERGY**





MEETING AGENDA

INTRODUCTION - DONALD L. VIETH

**Director - Waste Management
Project Office**

OVERVIEW - JAMES J. FIORE

**Chief - Program Planning, Analysis
and Support Branch**

ENVIRONMENTAL

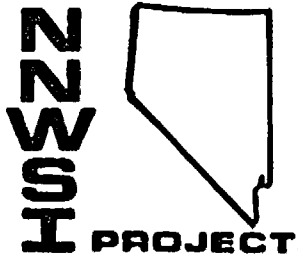
ASSESSMENT - MAXWELL B. BLANCHARD

**Chief - Geologic Investigations Branch
Waste Management Project Office**

QUESTIONS - STATE OFFICIALS and SUPPORTING STAFF

PURPOSE OF MEETING

- **OVERVIEW OF OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT ACTIVITIES**
- **EXPLAIN THE STRUCTURE AND CONTENT OF THE ENVIRONMENTAL ASSESSMENT**
- **EXPLAIN THE DEPARTMENT'S PROCESS FOR CONDUCTING THE REVIEW**
 - **BRIEFINGS**
 - **HEARINGS**
 - **WHERE TO SEND COMMENTS**



ENVIRONMENTAL ASSESSMENT REVIEW PROCESS

● BRIEFINGS

- | | | |
|--------------|-------------|--------------|
| - JANUARY 8 | CARSON CITY | 9am - 12noon |
| - JANUARY 22 | LAS VEGAS | 7pm - 10pm |
| - JANUARY 23 | BEATTY | 7pm - 10pm |
| - JANUARY 24 | RENO | 7pm - 10pm |

● HEARINGS

- | | | |
|---------------|-----------------|------------------------|
| - FEBRUARY 25 | AMARGOSA VALLEY | 10am - 2pm, 6pm - 10pm |
| - FEBRUARY 26 | LAS VEGAS | 10am - 2pm, 6pm - 10pm |
| - FEBRUARY 28 | RENO | 10am - 2pm, 6pm - 10pm |



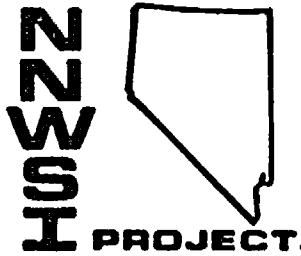
ENVIRONMENTAL ASSESSMENT REVIEW PROCESS

WHERE TO SEND WRITTEN COMMENTS

U.S. DEPARTMENT OF ENERGY
Attention: COMMENTS --- EA
1000 Independence Ave. S.W.
Washington, D.C. 20585

NOTE: COMMENT PERIOD CLOSES ON MARCH 20, 1985

(Comments received after this date do not have to be considered)



GROUND RULES

- **BRIEFING**

- **ANSWER QUESTIONS REGARDING...**

- ▶ **ENVIRONMENTAL ASSESSMENT**

- ▶ **OCRWM PROGRAM / NNWSI PROJECT**

- ▶ **OTHER ACTIVITIES AT THE NEVADA TEST SITE**

- **HEARING**

- **RECEIVE COMMENTS**



PEOPLE AVAILABLE TO ANSWER QUESTIONS

DOE - HEADQUARTERS

- JIM FIORE

DOE - NEVADA

**- DON VIETH
- MAX BLANCHARD
- ALLEN ROBERTS
- PETE FITZSIMMONS
- CHRIS WEST**

U.S. GEOLOGICAL SURVEY

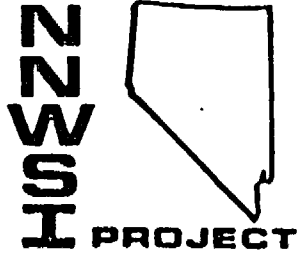
- BILL DUDLEY

SANDIA NATIONAL LABORATORY

- TOM HUNTER

SCIENCE APPLICATIONS INTERNATIONAL CORP.

**- CINDY ALEXANDER
- RICH BELANGER
- MARY LOU BROWN
- JEAN YOUNKER**



WHAT IS THE DRAFT ENVIRONMENTAL ASSESSMENT (EA) FOR YUCCA MOUNTAIN?

WHY WAS THE DRAFT EA PREPARED?

WHAT DOES THE DRAFT EA CONTAIN?

WHO WROTE THE DRAFT EA?

WHAT DOES THE DRAFT EA ACCOMPLISH?

HOW DO YOU MAKE COMMENTS ABOUT THE DRAFT EA?

HOW DO COMMENTS GET CONSIDERED WHEN THE DRAFT EA IS REVISED INTO ITS FINAL FORM?



WHAT IS THE DRAFT EA FOR YUCCA MOUNTAIN?

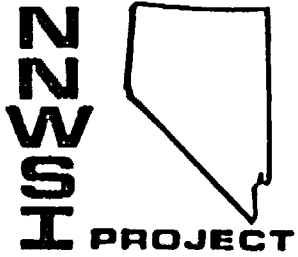
- 0 NUCLEAR WASTE POLICY ACT, 1982, (PUBLIC LAW 97-425), SECTION 112(B)(E) REQUIRES AN EA.
- 0 EA CONTENT SHALL INCLUDE:
 - (I) EVALUATION OF SITE SUITABILITY FOR SITE CHARACTERIZATION FOR GUIDELINES REQUIRING SITE CHARACTERIZATION.
 - (II) EVALUATION OF SITE SUITABILITY FOR DEVELOPMENT AS A REPOSITORY FOR GUIDELINES NOT REQUIRING SITE CHARACTERIZATION.
 - (III) ENVIRONMENTAL EFFECTS OF SITE CHARACTERIZATION.
 - (IV) REASONABLE COMPARATIVE EVALUATION WITH OTHER SITES.
 - (V) DESCRIPTION OF DECISION PROCESS.
 - (VI) REGIONAL AND LOCAL IMPACTS OF LOCATING A REPOSITORY AT THE PROPOSED SITE.
- 0 SHALL BE PREPARED ON THE BASIS OF AVAILABLE - GEOPHYSICAL, GEOLOGIC, GEOCHEMICAL, AND HYDROLOGIC INFORMATION
- 0 SHALL FOLLOW THE GENERAL GUIDELINES (SECTION 112 (A) OF IOCFR960) WHICH SPECIFIES DETAILED GEOLOGIC CONSIDERATIONS THAT SHALL BE THE PRIMARY CRITERIA FOR THE SELECTION OF SITES IN VARIOUS GEOLOGIC MEDIA.



WHY WAS THE DRAFT EA PREPARED?

NMPA (1982), SECTION II2(B)

- 0 EA REQUIRED TO ACCOMPANY NARRATIVE OF SITES TO THE PRESIDENT BY THE SECRETARY OF THE DEPARTMENT OF ENERGY (DOE)
- 0 THE SECRETARY OF THE DOE IS REQUIRED TO NOMINATE TO THE PRESIDENT AT LEAST 5 SITES FOR SITE CHARACTERIZATION
- 0 SUBSEQUENT TO NOMINATION, THE SECRETARY SHALL RECOMMEND (BY JANUARY 1, 1985) TO THE PRESIDENT 3 OF THE NOMINATED SITES FOR CHARACTERIZATION



WHAT DOES THE DRAFT EA CONTAIN?

NWPA, SECTION 112(B)(E)

EXECUTIVE SUMMARY	N.A.
CHAPTER 1 - PROCESS FOR SELECTING REPOSITORY SITES FOR GEOLOGIC REPOSITORIES	(V)
CHAPTER 2 - DECISION PROCESS BY WHICH THE SITE PROPOSED FOR NOMINATION WAS IDENTIFIED	(V)
CHAPTER 3 - THE SITE	N.A.
CHAPTER 4 - EXPECTED EFFECTS OF SITE CHARACTERIZATION ACTIVITIES	(III)
CHAPTER 5 - REGIONAL AND LOCAL EFFECTS OF LOCATING A REPOSITORY AT THE SITE	(VI)
CHAPTER 6 - SUITABILITY OF THE YUCCA MOUNTAIN SITE FOR SITE CHARACTERIZATION AND FOR DEVELOPMENT AS A REPOSITORY	(I & II)
CHAPTER 7 - COMPARATIVE EVALUATION OF SITES PROPOSED FOR NOMINATION	(IV)
APPENDIX A. TRANSPORTATION	N.A.
APPENDIX B. AGGREGATION METHODS AND SAMPLE RESULTS FROM THEIR APPLICATION	N.A.

N.A. - NOT APPLICABLE



OVERVIEW OF DRAFT EA CONTENT

EXECUTIVE SUMMARY

THE EXECUTIVE SUMMARY HIGHLIGHTS THE INFORMATION FOUND IN THE DRAFT EAS AND PRESENTS A SUMMARY OF THE DECISION PROCESS THAT WILL LEAD TO SITE NOMINATION AND RECOMMENDATION. IT ALSO PRESENTS PRELIMINARY CONCLUSIONS ABOUT THE YUCCA MOUNTAIN SITE BASED ON THE INFORMATION AND EVALUATIONS CONTAINED IN THE DRAFT EA.

CHAPTER 1: PROCESS FOR SELECTING NUCLEAR WASTE REPOSITORY SITES

CHAPTER 1 DESCRIBES THE OVERALL PROCESS FOR SELECTING NUCLEAR WASTE REPOSITORY SITES, INCLUDING A DESCRIPTION OF THE LEGAL AUTHORITY AND SCHEDULE FOR DOE TO DEVELOP A GEOLOGIC REPOSITORY; AN EXPLANATION OF A GEOLOGIC REPOSITORY; AN EXPLANATION OF THE ROLE OF THE EAS IN THE SITE SELECTION PROCESS AND AN OUTLINE OF DRAFT EA CONTENTS; A REVIEW OF THE SITE SCREENING PROCESS LEADING TO THE IDENTIFICATION OF POTENTIALLY ACCEPTABLE SITES; AND A GROUPING OF SITES INTO GEOHYDROLOGIC SETTINGS.

CHAPTER 2: PROCESS OF SELECTING THE YUCCA MOUNTAIN SITE AS ONE OF NINE POTENTIALLY ACCEPTABLE SITES

CHAPTER 2 DESCRIBES THE PROCESS BY WHICH THE YUCCA MOUNTAIN SITE WAS SELECTED AS ONE OF NINE POTENTIALLY ACCEPTABLE SITES FOR FURTHER CONSIDERATION. THIS CHAPTER ALSO PROVIDES AN EVALUATION BASED ON AVAILABLE INFORMATION, OF THE YUCCA MOUNTAIN SITE AGAINST THE DISQUALIFYING CONDITIONS OF THE DOE GENERAL GUIDELINES FOR THE RECOMMENDATION OF SITES FOR NUCLEAR WASTE REPOSITORIES.



OVERVIEW OF DRAFT EA CONTENT (CONT.)

CHAPTER 3: THE SITE

CHAPTER 3 PROVIDES A DESCRIPTION OF THE YUCCA MOUNTAIN SITE AND THE SURROUNDING AREA IN TERMS OF THE PRESENT UNDERSTANDING OF THE GEOLOGIC AND HYDROLOGIC CONDITIONS PRESENT OR INFERRED BY AVAILABLE DATA. IT CONTAINS A DESCRIPTION OF THE ENVIRONMENTAL SETTING OF YUCCA MOUNTAIN ALONG WITH DISCUSSIONS OF THE EXISTING TRANSPORTATION INFRASTRUCTURE, SOCIOECONOMIC CONDITIONS IN SURROUNDING AREAS, AND THE FISCAL AND GOVERNMENT STRUCTURE OF THOSE COMMUNITIES CONSIDERED MOST LIKELY TO EXPERIENCE IMPACTS SHOULD THE YUCCA MOUNTAIN SITE BE RECOMMENDED FOR SITE CHARACTERIZATION AND REPOSITORY DEVELOPMENT.

CHAPTER 4: EXPECTED EFFECTS OF SITE CHARACTERIZATION ACTIVITIES

CHAPTER 4 EVALUATES THE POTENTIAL EFFECTS OF THE PROPOSED CHARACTERIZATION ACTIVITIES AT THE YUCCA MOUNTAIN SITE ON THE ENVIRONMENT AS DEFINED IN CHAPTER 3. THESE PROPOSED ACTIVITIES INCLUDE FIELD STUDIES, CONSTRUCTION OF AN EXPLORATORY SHAFT TO THE PROPOSED REPOSITORY DEPTH IN YUCCA MOUNTAIN, AND OTHER STUDIES TO INVESTIGATE SITE SUITABILITY.



OVERVIEW OF DRAFT EA CONTENT (CONT.)

CHAPTER 5: EFFECTS OF LOCATING THE PROPOSED REPOSITORY

CHAPTER 5 PROVIDES A PRELIMINARY EVALUATION OF REGIONAL AND LOCAL EFFECTS SHOULD THE SITE BE SELECTED AS THE FIRST REPOSITORY LOCATION. ALTHOUGH BASED ON A PRELIMINARY DESIGN, THE IMPACTS OF CONSTRUCTION, OPERATION, AND DECOMMISSIONING OF A REPOSITORY ARE ASSESSED WITH REGARD TO EFFECTS ON THE PHYSICAL ENVIRONMENT, TRANSPORTATION INFRASTRUCTURE, SOCIOECONOMIC CONDITIONS, AND FISCAL AND GOVERNMENT STRUCTURE IN THE AFFECTED AREA.

CHAPTER 6: EVALUATION OF THE SUITABILITY OF THE YUCCA MOUNTAIN SITE FOR SITE CHARACTERIZATION AND DEVELOPMENT AS A REPOSITORY

CHAPTER 6 PROVIDES AN EVALUATION OF THE SUITABILITY OF THE YUCCA MOUNTAIN SITE FOR SITE CHARACTERIZATION AND FOR DEVELOPMENT AS A HIGH-LEVEL WASTE REPOSITORY. THIS EVALUATION IS CONDUCTED THROUGH A COMPARISON OF THE CHARACTERISTICS OF THE YUCCA MOUNTAIN SITE WITH THE CRITERIA OF THE DOE GENERAL GUIDELINES FOR THE RECOMMENDATION OF SITES FOR NUCLEAR WASTE REPOSITORIES. SUITABILITY OF THE SITE FOR DEVELOPMENT AS A REPOSITORY IS ASSESSED THROUGH APPLICATION OF THOSE GUIDELINES WHICH DO NOT REQUIRE DATA FROM SITE CHARACTERIZATION. SUITABILITY FOR SITE CHARACTERIZATION IS EVALUATED BY COMPARING KNOWN INFORMATION ABOUT THE SITE AGAINST THE CRITERIA AND CONDITIONS OF THOSE GUIDELINES WHICH DO REQUIRE SITE CHARACTERIZATION DATA, BUT FOR WHICH A PRELIMINARY FINDING CAN BE MADE AT THIS TIME.

OVERVIEW OF DRAFT EA CONTENT (CONT.)

CHAPTER 7: COMPARATIVE EVALUATION OF THE SITES PROPOSED FOR NOMINATION

CHAPTER 7 PROVIDES A COMPARATIVE EVALUATION OF SITES TO BE PROPOSED FOR NOMINATION. IT EXPLAINS THE PURPOSE, REQUIREMENTS, AND APPROACH TO COMPARATIVE EVALUATION AS TO HOW THE SITE MEETS THE ACT AND GUIDELINES REQUIREMENTS. THE FIVE SITES PROPOSED FOR NOMINATION WERE COMPARED TO DERIVE A RANKING OF SITES FOR EACH TECHNICAL GUIDELINE. THESE RANKINGS WERE THEN COMBINED TO DERIVE FOR EACH SITE:

- 1) A RANKING FOR THE SET OF GUIDELINES THAT RELATES TO EVENTS AFTER (POSTCLOSURE) CLOSING OF THE REPOSITORY,
- 2) RANKINGS FOR EACH OF THREE GROUPS OF GUIDELINES RELATING TO EVENTS BEFORE (PRE-CLOSURE) THE REPOSITORY IS CLOSED,
- 3) A RANKING FOR THE ENTIRE SET OF "PRECLOSURE" GUIDELINES, AND
- 4) AN OVERALL RANKING FOR ALL OF THE GUIDELINES (PRE- AND POSTCLOSURE).



WHO WROTE THE DRAFT EA?

OFFICE OF CIVILIAN RADIOACTIVE⁽¹⁾
WASTE MANAGEMENT (OCRWM)

NEVADA OPERATIONS OFFICE⁽²⁾
(NVO)

EXECUTIVE SUMMARY	X	
CHAPTER 1	X	
CHAPTER 2		X
CHAPTER 3		X
CHAPTER 4		X
CHAPTER 5		X
CHAPTER 6		X
CHAPTER 7	X	
APPENDIX A	X	
APPENDIX B	X	

(1)DOE - OCRWM, WESTON

(2)DOE-NVO/WMPD, SAIC, SNL, USGS, LANL, LLNL



WHO WROTE THE DRAFT EA? (CONT.)

CITES APPROXIMATELY 502 REFERENCES DRAWING FROM EXISTING LITERATURE. USES EXISTING KNOWLEDGE ABOUT GEOLOGY, HYDROLOGY, GEOCHEMISTRY, AND CONCEPTUAL ENGINEERING DESIGN.

DOE	-	DEPARTMENT OF ENERGY
OCRWM	-	OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
NVO/WMPD	-	NEVADA OPERATIONS OFFICE/WASTE MANAGEMENT PROJECT OFFICE
SAIC	-	SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
SNL	-	SANDIA NATIONAL LABORATORIES
LANL	-	LOS ALAMOS NATIONAL LABORATORY
LLNL	-	LAWRENCE LIVERMORE NATIONAL LABORATORY
USGS	-	UNITED STATES GEOLOGICAL SURVEY



WHAT DOES THE DRAFT EA ACCOMPLISH?

- 0 SCREENS FROM 9 TO 5 SITES FOR NOMINATION BY THE SECRETARY OF THE DEPARTMENT OF ENERGY (DOE) TO THE PRESIDENT
- 0 SCREENS FROM 5 TO 3 SITES FOR RECOMMENDATION BY THE SECRETARY OF THE DOE AND THE PRESIDENT FOR SITE CHARACTERIZATION
- 0 COMPARES EACH SITE WITH GENERAL SITING GUIDELINES (10CFR960) FOR THE FOLLOWING FACTORS:
 - DISQUALIFYING CONDITIONS
 - POTENTIALLY ADVERSE CONDITIONS
 - FAVORABLE CONDITIONS
 - QUALIFYING CONDITIONS
- 0 STEPS IN THE COMPARISON FOR 10CFR960
 - DIVERSITY OF GEOHYDROLOGIC SETTINGS
 - DIVERSITY OF ROCK TYPES
 - REGIONALITY (APPLIES AFTER THE FIRST REPOSITORY)
- 0 EVALUATION WITH POSTCLOSURE GUIDELINES
 - SYSTEMS
 - 10CFR60, 40CFR191



TECHNICAL
GEOHYDROLOGY
GEOCHEMISTRY
ROCK CHARACTERISTICS
CLIMATIC CHANGES
EROSION
DISSOLUTION
TECTONICS
HUMAN INTERFERENCE
NATURAL RESOURCES
SITE OWNERSHIP AND CONTROL

0 EVALUATION WITH PRECLOSURE GUIDELINES

SYSTEMS
10CFR20, 10CFR60, 40CFR191
TECHNICAL
POPULATION DENSITY AND DISTRIBUTION
SITE OWNERSHIP AND CONTROL
METEOROLOGY
OFFSITE INSTALLATIONS AND OPERATIONS
ENVIRONMENTAL QUALITY
SOCIOECONOMIC IMPACTS
TRANSPORTATION
SURFACE CHARACTERISTICS
ROCK CHARACTERISTICS
HYDROLOGY
TECTONICS

0 FINDINGS REQUIRED (PER 10CFR960, APPENDIX III) OF ALL SITES BEING
NOMINATED AND RECOMMENDED



HOW DO YOU MAKE COMMENTS ABOUT THE

DRAFT EA?

0 IN PERSON AT HEARINGS

FEBRUARY 25, 1985

AMARGOSA VALLEY - AMARGOSA VALLEY
COMMUNITY BUILDING

10:00 AM - 2:00 PM
6:00 PM - 10:00 PM

FEBRUARY 26, 1985

LAS VEGAS - HACIENDA HOTEL, MADRID
ROOM, 3950 S. LAS VEGAS BOULEVARD

10:00 AM - 2:00 PM
6:00 PM - 10:00 PM

FEBRUARY 28, 1985

RENO - UNR, PINE ROOM, JOT TRAVIS
STUDENT UNION

10:00AM - 2:00PM
6:00PM - 10:00PM



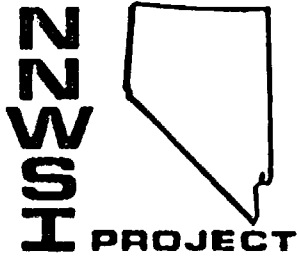
HOW DO YOU MAKE COMMENTS ABOUT THE
DRAFT EA? (CONT.)

0 WRITTEN COMMENTS SENT TO:

U. S. DEPARTMENT OF ENERGY
ATTN: COMMENTS ON THE EA
1000 INDEPENDENCE AVENUE SW
WASHINGTON, D. C. 20585

DEADLINE

0 ORAL AND WRITTEN COMMENTS MUST BE RECEIVED BY MARCH 20, 1985



HOW DO COMMENTS GET CONSIDERED IN THE
DRAFT EA?

- 0 CONSIDERED WHEN DRAFT EAS ARE REVISED TO FIVE FINAL EAS
- 0 COMMENT AND RESPONSE DOCUMENT



LOCATIONS WHERE A COMPLETE SET
OF REFERENCES ARE AVAILABLE

DOE-NEVADA OPERATIONS OFFICE, LAS VEGAS
UNIVERSITY OF NEVADA, LAS VEGAS
CLARK COUNTY LIBRARY, LAS VEGAS
UNIVERSITY OF NEVADA, RENO
WASHOE COUNTY LIBRARY, RENO
NEVADA STATE LIBRARY, CARSON CITY
NUCLEAR WASTE PROJECT OFFICE, OFFICE OF GOVERNOR, CARSON CITY
NEVADA LEGISLATIVE COUNCIL BUREAU RESEARCH LIBRARY, CARSON CITY
LINCOLN COUNTY LIBRARY, PIOCHE
BEATTY LIBRARY, BEATTY
AMARGOSA VALLEY LIBRARY, AMARGOSA VALLEY
NORTHERN NEVADA COMMUNITY COLLEGE LIBRARY, ELKO
NYE COUNTY LAW LIBRARY, TONOPAH
NUCLEAR REGULATORY COMMISSION, WASHINGTON, D. C.



POSTCLOSURE GUIDELINES

SYSTEM GUIDELINE

QUALIFYING
40CFR191/100FR60

TECHNICAL GUIDELINES

GEOHYDROLOGY

QUALIFYING - 1
FAVORABLE - 5
POTENTIALLY ADVERSE - 3
DISQUALIFYING - 1

GEOCHEMISTRY

QUALIFYING - 1
FAVORABLE - 5
POTENTIALLY ADVERSE - 3

ROCK CHARACTERISTICS

QUALIFYING - 1
FAVORABLE - 2
POTENTIALLY ADVERSE - 3

NZSH



PROJECT

POSTCLOSURE GUIDELINES (CONT.)

CLIMATIC CHANGES

QUALIFYING - 1

FAVORABLE - 2

POTENTIALLY ADVERSE - 2

EROSION

QUALIFYING - 1

FAVORABLE - 3

POTENTIALLY ADVERSE - 2

DISQUALIFYING - 1

DISSOLUTION

QUALIFYING - 1

FAVORABLE - 1

POTENTIALLY ADVERSE - 1

DISQUALIFYING - 1

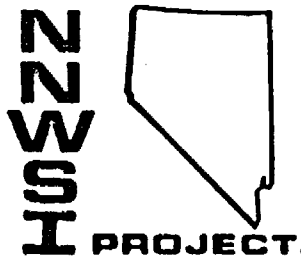
TECTONICS

QUALIFYING - 1

FAVORABLE - 1

POTENTIALLY ADVERSE - 6

DISQUALIFYING - 1



POSTCLOSURE GUIDELINES (CONT.)

NATURAL RESOURCES

QUALIFYING - 1

FAVORABLE - 2

POTENTIALLY ADVERSE - 5

DISQUALIFYING - 2

SITE OWNERSHIP

QUALIFYING - 1

FAVORABLE - 1

POTENTIALLY ADVERSE - 1



PRECLOSURE GUIDELINES

SYSTEM GUIDELINE

10CFR20, 10CFR60, 40CFR191

RADIOLOGICAL SAFETY

ENVIRONMENTAL, SOCIOECONOMICS, TRANSPORTATION

EASE AND COST OF SITING CONSTRUCTION, OPERATIONS, CLOSURE

TECHNICAL GUIDELINES

RADIOLOGICAL SAFETY

POPULATION DENSITY AND DISTRIBUTION

QUALIFYING - 1

FAVORABLE - 2

POTENTIALLY ADVERSE - 2

DISQUALIFYING - 3

SITE OWNERSHIP AND CONTROL

QUALIFYING - 1

FAVORABLE - 1

POTENTIALLY ADVERSE - 1



PRECLOSURE GUIDELINES (CONT.)

METEOROLOGY

QUALIFYING - 1
FAVORABLE - 1
POTENTIALLY ADVERSE - 2

OFFSITE INSTALLATION AND OPERATIONS

QUALIFYING - 1
FAVORABLE - 1
POTENTIALLY ADVERSE - 2
DISQUALIFYING - 1

ENVIRONMENTAL, SOCIOECONOMICS, TRANSPORTATION

ENVIRONMENTAL QUALITY

QUALIFYING - 1
FAVORABLE - 2
POTENTIALLY ADVERSE - 6
DISQUALIFYING - 3

SOCIOECONOMIC

QUALIFYING - 1
FAVORABLE - 4
POTENTIALLY ADVERSE - 4
DISQUALIFYING - 1



PRECLOSURE GUIDELINES (CONT.)

TRANSPORTATION

QUALIFYING - 1
FAVORABLE - 9
POTENTIALLY ADVERSE - 4

EASE AND COST OF SITING, CONSTRUCTION, OPERATIONS, AND CLOSURE

SURFACE CHARACTERISTICS

QUALIFYING - 1
FAVORABLE - 2
POTENTIALLY ADVERSE - 1

ROCK CHARACTERISTICS

QUALIFYING - 1
FAVORABLE - 2
POTENTIALLY ADVERSE - 5
DISQUALIFYING - 1

HYDROLOGY

QUALIFYING - 1
FAVORABLE - 3
POTENTIALLY ADVERSE - 1
DISQUALIFYING - 1

TECTONICS

QUALIFYING - 1
FAVORABLE - 1
POTENTIALLY ADVERSE - 3
DISQUALIFYING - 1



APPENDIX 1 - GUIDELINES

NRC AND EPA REQUIREMENTS FOR POST-CLOSURE

- 0 CONTAINMENT FOR 10,000 YEARS AFTER DISPOSAL. RELEASES SPECIFIED IN TABLE 2 OF EPA 40CFR191
- 0 CONTAINMENT WITHIN WASTE PACKAGES SUBSTANTIALLY COMPLETE FOR 300 - 1000 YEARS AFTER PERMANENT CLOSURE
- 0 RELEASE RATE OF ANY RADIONUCLIDE FROM ENGINEERED BARRIER SHALL NOT EXCEED 1 PART IN 100,000 PER YEAR AT THE INVENTORY CALCULATED TO BE PRESENT AT 1,000 YEARS FOLLOWING CLOSURE
- 0 PREWASTE EMPLACEMENT GROUND-WATER TRAVEL TIME ALONG FASTEST PATH OF LIKELY RADIONUCLIDE TRAVEL FROM DISTURBED ZONE TO ACCESSIBLE ENVIRONMENT SHALL BE AT LEAST 1,000 YEARS, OR OTHER AS APPROVED BY NRC



APPENDIX II - GUIDELINES

NRC AND EPA REQUIREMENTS FOR PRE-CLOSURE REPOSITORY PERFORMANCE

- O CONDUCT OPERATIONS TO REDUCE EXPOSURE TO MEMBERS OF THE PUBLIC TO EXTENT REASONABLY ACHIEVABLE (40CFR191 AND 10CFR20)
- O NORMAL OPERATIONS SHALL BE CONDUCTED SO THAT THE COMBINED ANNUAL DOSE EQUIVALENT TO ANY MEMBER OF THE PUBLIC SHALL NOT EXCEED* 25 MILLIREMS TO WHOLE BODY, 75 MILLIREMS TO THYROID, OR 25 MILLIREMS TO ANY OTHER ORGAN.

*EXCEPT FOR VARIANCES

- O SPECIFIES REQUIREMENTS FOR WASTE RETRIEVAL



APPENDIX III - GUIDELINES

APPLICATION OF SYSTEM AND TECHNICAL

GUIDELINES DURING SITING PROCESS

ESTABLISHES 4 LEVELS OF FINDINGS (A POSITIVE OR A NEGATIVE POSITION IS POSSIBLE FOR EACH FINDING) FOR SYSTEMS AND TECHNICAL GUIDELINES

EXAMPLES OF POSITIVE FINDINGS:

1. EVIDENCE DOES NOT SUPPORT A FINDING THAT THE SITE IS DISQUALIFIED
2. EVIDENCE SUPPORTS A FINDING THAT THE SITE IS NOT DISQUALIFIED ON THE BASIS OF THAT EVIDENCE AND IS NOT LIKELY TO BE DISQUALIFIED
3. EVIDENCE DOES NOT SUPPORT A FINDING THAT THE SITE IS NOT LIKELY TO MEET THE QUALIFYING CONDITION
4. EVIDENCE SUPPORTS A FINDING THAT THE SITE MEETS THE QUALIFYING CONDITION AND IS LIKELY TO CONTINUE TO MEET THE QUALIFYING CONDITION



APPENDIX IV - GUIDELINES

TYPES OF INFORMATION FOR THE NOMINATION OF SITE AS SUITABLE FOR CHARACTERIZATION

GEOHYDROLOGY

GEOCHEMISTRY

ROCK CHARACTERISTICS

CLIMATIC CHANGES

EROSION

DISSOLUTION

TECTONICS

NATURAL RESOURCES

SITE OWNERSHIP AND CONTROL

POPULATION DENSITY AND DISTRIBUTION

METEOROLOGY

OFFSITE INSTALLATIONS AND OPERATIONS

ENVIRONMENTAL QUALITY

SOCIOECONOMIC IMPACTS

TRANSPORTATION

SURFACE CHARACTERISTIC
HYDROLOGY

DRAFT
AGENDA
STATE/TRIBAL/DOE
QUARTERLY MEETING

JANUARY 29, 30, 1985
LA JOLLA VILLAGE INN
LA JOLLA, CALIFORNIA

JANUARY 29TH

7:30am - 9:00 am	State-Tribal representatives
9:00am	State/Tribal/DOE meeting
	I. DOE update (Mission Plan, Defense Plan, MRS, etc.).
	II. Consultation on EA after public comment period.
12:00pm - 1:30pm	Lunch
1:30pm	III. Grant guidelines review.
5:00pm	Adjourn

JANUARY 30TH

8:00am	IV. Site characterization plan development.
12:00pm - 1:30pm	Lunch
1:30pm	V. Identification of major consultation areas over next year.
4:30pm	Adjourn

**SCHEDULE OF STATE ACTIVITY
EA REVIEW PROCESS**

WEEK OF 12/17/84	Letter from the Governor sent to state agency heads together with agenda for the 1/8/85 briefing and a schedule of state EA activities.
December 19, 1984	Draft EA's delivered to state officials by DOE representatives.
December 20, 1984	Draft EA's delivered to local government officials and others by DOE.
December 20-31, 1984	Draft EA's mailed to other recipients by DOE.
January 8, 1985	Briefing for state and local government reviewers of the draft EA in Carson City.
January 22, 1985	Public hearings on EA in Las Vegas (7pm).
January 23, 1985	Public hearings on EA in Beatty (7pm).
January 24, 1985	Public hearings on EA in Reno (7pm).
Week of 2/18/84	State prepares comments for DOE public hearings.
February 25, 1985	DOE public hearing in Amargosa Valley (10am - 2pm and 6pm - 10pm).
February 26, 1985	DOE public hearing in Las Vegas (10am - 2pm and 6pm - 10pm).
February 28, 1985	DOE public hearing in Reno (10am - 2pm and 6pm - 10pm).
March 8, 1985	Deadline for reviewers' comments to be received by the state office.
March 29, 1985	State office submits formal comments on the draft EA to DOE/headquarters.

NOTE: Periodically throughout the comment period, the State Nuclear Waste Project Office will contact reviewers to ascertain the status of their reviews and to offer assistance as needed.

AGENDA

**BRIEFING FOR STATE AND LOCAL GOVERNMENT REVIEWERS
OF THE
ENVIRONMENTAL ASSESSMENT FOR YUCCA MOUNTAIN**

DATE: JANUARY 8, 1985

PLACE: CAPITOL BUILDING, 2ND FLOOR (OLD ASSEMBLY CHAMBERS)

9:00 AM - 12 NOON	DOE orientation and briefing relative to the EA, including background, document organization and questions & answers.
12 NOON - 1:30 PM	LUNCH BREAK
1:30 PM - 3:30 PM	State portion of EA briefing: Overview of the state's role in the EA review process (Bob Loux). Overview of the Nuclear Waste Policy Act and the position of the EA relative to the site selection process, including: requirements of the Act; dates and major decision points; how the EA fits in; next steps following the EA; etc. Overview of schedule of state activity for the EA review process. Review list of state and local government reviewers. Review general format for comments by state reviewers. Overview of state's concept of its response document (i.e. what that document will include and what format it will take). EA references - where they are physically located and how best to access them. General discussion of issues including questions and answers.
3:30 PM - 4:00 PM	Wrap up and adjourn.

**FORMAT FOR COMMENTS OF REVIEWERS
PARTICIPATING IN THE STATE E.A. REVIEW**

In order to facilitate the integration of comments from various reviewers into a comprehensive state response document, the Nuclear Waste Project Office is asking that the following format be used in preparing your comments:

- (1) Comments should be provided on letterhead stationery.
- (2) The name, title and phone number of the person(s) actually responsible for preparing the comments should be clearly indicated.
- (3) The first section of your comment document should address areas, issues, etc. of a general nature. For example, you should identify those areas, subjects, issues, etc. in the EA that are of major concern within your field of expertise. You may also include here comments relative to such things as the overall quality of the EA, the organization of the document, adequacy of references, etc.
- (4) The second section of your comment document should address very specific areas, issues, items, etc. contained in the EA. Specific comments should identify the Chapter, page number and paragraph (or relative position on the page) of the issue being addressed.
- (5) In the course of your review, you may find that you are aware of additional data, references, etc. which are not included in the EA but which, in your experience, are relevant to the topics reviewed. These might include other or more current references that either refute or support a certain position; references/data that suggest alternatives to conclusions or assumptions in the EA; etc. Please note those references, data, etc. in your comments.

For additional information, contact Bob Loux, Carl Johnson, or Joe Strolin at 885-3744.

LIST OF ENVIRONMENTAL ASSESSMENT REVIEWERS

(Carl)	1)	<u>Desert Research Institute,</u> <u>Water Resources Center</u> (contract)	Marty Miffilin (LV)	798-8882	hydrogeologic issues
(Carl)	2)	<u>Nevada Bureau of Mines & Geology</u> (contract)	John Bell or John Schilling	784-6691	geologic- mineral issues
(Bob)	3)	<u>Western Interstate Energy Board</u>	Doug Larson	(303)377-9459	transportation
(Bob)	4)	<u>University of Nevada - Reno,</u> <u>Bureau of Business and Economic</u> <u>Research</u>	Sam Males	784-6877	Socio-econom community service impacts
(Bob)	5)	<u>University of Nevada - Las Vegas</u> <u>Center for Business and Economic</u> <u>Research</u>	Phil Taylor	739-3191	socio-econom community service impacts
(Bob)	6)	<u>Davenport and Murphy</u> (contract)	Jim Davenport, Mal Murphy	(206)754-6001	legal issues siting & comparative evaluations
(Bob)	7)	<u>Attorney General's Office</u>	Harry Swainston	885-5866	legal issues
(Carl)	8)	<u>David Tillson</u> (geology contractor)		(801)363-4091	site screeni methodology
(Joe)	9)	<u>Department of Transportation</u>	Ron Hill	885-5440	transportati issues

(Bob)	10)	<u>Office of Community Services</u>	John Walker	885-4420	organization. issues
(Carl)	11)	<u>Department of Conservation and Natural Resources - Divisions of Environmental Protection, Water Resources, Historic Preservation and Archeology, State Lands, Water Planning</u>	Vern Rosse	885-4670	environmental related, hist & cultural issues
(Bob)	12)	<u>Emergency Management - Department of the Military</u>	Don Dehne	885-4240	emergency planning preparedness, especially in areas of transportatic
(Joe)	13)	<u>Division of Health</u>	John Vaden* Carolyn Ford**	885-4750	*radiological health issues **health planning issues
(Carl)	14)	<u>Department of Minerals</u>	Paul Iverson	885-5050	mineral resource issues
(Joe)	15)	<u>Department of Wildlife</u>	William Molini	789-0500	flora-fauna, endangered species & related issue
(Carl)	16)	<u>Department of Industrial Relations</u>	Jim Barnes	885-3032	mine safety & general occupational health & safe issues

(Joe)	17)	<u>Department of Agriculture</u>	Thomas Ballow	789-0180	agricultural land use issues/ agricultural economics issues
(Bob)	18)	<u>Department of Tourism and Economic Development</u>	Andy Grose	885-4325	impacts on tourism, industry & economic development
(Joe)	19)	<u>Nevada Indian Commission</u>	Elwood Mose	789-0347	socioeconomic historic, cultural
(Joe)	20)	<u>Nye County</u>	Steve Bradhurst	323-4141(Reno) 482-3581(Tonopah)	
(Joe)	21)	<u>Clark County Comprehensive Planning</u>	Dennis Bechtel	386-3181	
(Joe)	22)	<u>City of North Las Vegas</u>	Jane Poulos	649-5811, ext. 252	
(Joe)	23)	<u>Lincoln County</u>	Rick Hardy Mike Baughman	725-3356 883-1600	
(Joe)	24)	<u>City of Las Vegas</u>	Jack Thomason	386-6551	
(Joe)	25)	<u>City of Henderson</u>	Gary Bloomquist	565-2080	
(Joe)	26)	<u>Boulder City</u>	Robert Boyer (Acting City Manager)	293-9202	
(Bob)	27)	<u>Legislative Subcommittee</u>	Fred Welden	885-5637	

NOTE: The name in parenthesis () indicates the person in the Nuclear Waste Project Office who is the primary contact person for that reviewer.

ATTENDEES AT STATE OFFICIALS BRIEFING
CARSON CITY, NEVADA
JANUARY 8, 1985

Dr. Donald L. Vieth, Director
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Richard Belanger
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International Corporation
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Las Vegas, NV 89109

E.A. REVIEWERS BRIEFING

JANUARY 8, 1985

NAME	ORGANIZATION	ADDRESS	PHONE #
Max Montgomery	Div. of Health	505 E. King	885-4750
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P. Jane Poulos	CNLV	2200 Civic Cntr	649-5811
Nancy DeBarre	CNLV	2200 Civic Cntr	642-4959
CINDY ALEXANDER	SAIC	LAS VEGAS 2769 S. HIGHLAND	(818) 366 6010
MARY Lou Brown	SAIC	2769 S HIGHLAND W.	295-0840
DAVE GASSMAN	US DOE	PO Box 14100 LAS VEGAS, NV 89114	295-3581
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DOUG DRIESNER	NEVADA DEPT of MINERALS	400 W. KING ST.	885-5050
RICH REYBURN	NEV DEPT of MINERALS	" " " "	" "
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David Conquest	INDEP	Nyc Bldg	885-5870
Alvin M. Becker	ND HPA	Nyc Bldg	5-5138
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PAM WILCOX	DIV OF STATE LANDS	201 S. FALL, CC	885-4363
John Schilling	Bur. Mines/Geol.	RENO	—
Ron Hill	NEV. D.O.T.	CC	885-5440
JOHN BELL	NEV. BUREAU OF MINES-GEOL	RENO	784-6691

E.A. REVIEWERS BRIEFING

JANUARY 8, 1985

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