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see pocket 1 for enclosure

Department of Energy  
WM DOCKET CONTROL CENTER  
Nevada Operations Office  
P. O. Box 14100  
Las Vegas, NV 89114-4100

WM Record File

102.2

WM Project 11  
Docket No. \_\_\_\_\_  
PDR ✓  
LPDR ✓

'83 SEP 12 A11:05

Distribution:

SCOPLAN

(Return to WM, 623-SS)

15

- L. D. Ramspott, LLNL, Livermore, CA
- W. W. Dudley, Jr., USGS, Denver, CO
- D. T. Oakley, LANL, Los Alamos, NM
- T. O. Hunter, SNL, 6310, Albq., NM
- A. R. Haki, W, Mercury, NV
- M. E. Spaeth, SAI, Las Vegas, NV

AUG 25 1983 - 01

TENTATIVE DATES FOR WORKSHOPS BETWEEN NRC'S NNWSI

The earlier memo dated August 18, 1983, entitled "Workshop with NRC" was in error. The enclosure had incorrect dates listed. The correct dates, topics, and lead persons are shown below.

<u>Tentative Date</u>	<u>Topic</u>	<u>NNWSI Lead Role</u>
Sept. 20-21	Hydrogeology (Denver)	W. Dudley (USGS)
Sept. 26-27	Performance Assessment (Albuquerque)	L. Tyler & W. Dudley (SNL) (USGS)
Oct. 4-6	Geology & Geologic Stability (Denver, Oct. 4 & 5) (Yucca Mountain, Oct. 6)	W. Dudley (USGS)
Oct. 18-19	Waste Package (Livermore)	L. Ramspott (LLNL)
Oct. 26-27	Geochemistry (Los Alamos)	D. Oakley (LANL)
Nov. 8-9	Repository Design (Albuquerque)	L. Scully (SNL)
Dec. 7	Quality Assurance (Silver Spring)	M. Spaeth (SAI)

*for Mitchell Hamill*  
Donald L. Vieth, Director  
Waste Management Project Office

WMPO:MBB-609

Enclosure:  
As stated

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PDR WASTE  
WM-11

PDR

1022/4/190<sup>u</sup>

ORIGINAL NOT REC'D

00074

Multiple Addressees

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AUG 25 1983

cc:

Robert Loux, Jr., Carson City, NV  
Carl Johnson, Carson City, NV  
NNWSI Project File ←



Department of Energy  
Nevada Operations Office  
P.O. Box 14100  
Las Vegas, NV 89114-4100.

AUG 19 1983

J. W. Bennett, Dir., Geologic Repository Division (S-10) GTN

PROJECT IMPLEMENTATION OF SWG RECOMMENDATION ON ACCESS TO INFORMATION

As requested in your memo of July 26, 1983, we have reviewed the draft action memorandum prepared by Jeff Neff regarding the recommendation of the State Working Group. In response to your specific questions, it will cause problems for NNWSI and, therefore, in our opinion, it is not suitable for uniform application across the NWTs Program.

The major concern is the ability to give the states geotechnical data regarding site characterization at any early point after its acquisition, but before its analysis and review; U.S. Geological Survey (USGS) is the organization responsible for site characterization for the NNWSI Project. They have a strong sense of responsibility in terms of the work they do and are intent on making sure the data are accurate before they are released. They have a strong tradition in this regard and guard it jealously. Until a top level agreement is reached between DOE and USGS on this matter, I do not believe that I should be put in a situation that I cannot effectively control and implement for the Department. I, therefore, must oppose this provision until there is a formal agreement between DOE and USGS to support this proposal.

As it now stands, the USGS has only a minimal management and support structure in Denver to comply with the proposed procedure for providing raw data within 30 days of collection. This can be done with existing personnel only at the expense of the management functions that they are now performing in directing the site characterization activities for the NNWSI Project. Before making any decision here, you should carefully look at the limited management structure USGS has for supporting the NNWSI Project in the direction of the technical program.

Remember the limited number of good people that I have had to support the siting guideline activities and the decision methodology development. Think of what it is going to be like when these people cannot support the national effort when they are sending raw data to the states.

J. W. Bennett

-2-

If you have any further questions, I will be happy to discuss them in greater depth.



Donald L. Vieth, Director  
Waste Management Project Office

WMPO:DLV-582

cc w/encl:  
W. W. Dudley, Jr., USGS, Denver, CO  
NNWSI Project File

U.S. DEPARTMENT OF ENERGY  
**memorandum**

DATE: JUL 26 1983

REPLY TO  
ATTN OF: S-10

SUBJECT Project Implementation of SWG Recommendations on Access to Information

TO: Donald L. Vieth, NV

Attached is a draft action memorandum from Jeff Neff to Bill Bennett identifying how the NWTS Program Office (NPO) would propose satisfying the State Working Group on High-Level Radioactive Waste Management recommendations to Morgan on State access to information (letter attached). Recall that Morgan in his letter of March 14, 1983, (letter attached) stated the Department's intent to establish procedures for data transmittal as an integral part of the consultation process formalized by the Act. The approach identified in this action memorandum is also intended to satisfy the NRC request for access to raw data from the Salt Project.

Please review the approach being proposed by NPO to ensure it will not cause any problems for NNWSI, and to determine if it is suitable for uniform application across the NWTS Program. I would appreciate your input by August 5, 1983.

*James J. Fiore*  
James J. Fiore, Team Leader  
Nevada Repository Team  
Geologic Repository Division  
Nuclear Waste Policy Act  
Project Office

2 Attachments

cc: B. Bennett, S-10  
R. Stein, S-10

ACTION gkmpo  
INFO \_\_\_\_\_  
R. F. \_\_\_\_\_  
A.M. \_\_\_\_\_  
A.M. & C.  \_\_\_\_\_  
A.M.D. \_\_\_\_\_



Department of Energy  
Washington, D.C. 20585

MAR 14 1983

Mr. John H. Gervers  
Technical Advisor  
800 North Star Route  
Questa, New Mexico 87556

Dear Mr. Gervers:

Thank you for your letter of February 16, 1983, concerning the Department of Energy's (DOE) Guidelines on Siting Nuclear Waste Repositories and State access to information. Your comments will certainly be considered and specifically addressed in our review of the Guidelines and in the development of specific State agreements on consultation and cooperation. I would like to take this opportunity, however, to address some of the issues you raised since they will have an important bearing on the successful conduct of the nuclear waste program.

Both Secretary Hodel and I are committed to strengthen consultation and cooperation between DOE and the States. Although the Nuclear Waste Policy Act lays out many important deadlines and schedules which the DOE seeks to meet, this will be predicated on our ability to work in an open, cooperative manner with the States, other agencies and other affected parties so that the institutional process envisaged by Congress can be fully satisfied. We will not let schedules arbitrarily restrict our ability to discuss and resolve important issues.

As you know, hearings on the Guidelines are being held in early March and comments have been requested by April 7, 1983. In addition, each State with an identified potentially acceptable repository site has been offered the opportunity of special hearings on the Guidelines if they desire. Although we would like to receive comments by April 7, this will just be the initial step in the process of working with the States and other commentators and interested parties to discuss and successfully resolve issues. Consequently, we do not believe an extension of the initial comment period is necessary and will welcome and consider comments from the States.

With regard to the timing of the Guidelines, Environmental Assessments, site characterization reports and their necessary hearings, we plan to conduct hearings and issue drafts as early as possible to provide an opportunity for initial reviews and comment. We fully recognize, however, that the Environmental Assessments and Site Characterization Reports must be based upon the Final Guidelines.

It is my desire to establish a process by which data is transmitted to the DOE and to the States at the same time. This will allow concurrent review by both parties. This, of course, means that unprocessed and/or preliminary data would be released to the States prior to the DOE's review and subsequent disposition. Accordingly, it is important to recognize that a

consultation process should be established between the States and the DOE on how this data should be processed before it's released. This in no way infers any control of data, because we believe that prompt disclosure of any information, even preliminary in nature, is an absolute necessity to ensure system credibility. We will be discussing the specific procedures with each of the States involved during the consultation and cooperation process.

Once again, thank you for your comments and suggestions. Each will be specifically considered in the implementation of the Guidelines and the Geologic Siting Program. J. William Bennett, Director, Geologic Repository Division, will be contacting you on this process. Please call me if you have any additional concerns. My staff and I look forward to working with you and the State Working Group on these issues.

Sincerely,

  
Robert L. Morgan  
Project Director  
Nuclear Waste Policy Act  
Project Office

J. William Bennett, Director  
Geological Repository  
Nuclear Waste Policy Act  
Project Office

see 102.2  
to various in Viett  
8/05/83

V. Lowery  
8/05/83  
ST 7/25/83

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Dear Mr. Bennett:

**ACTION:** IMPLEMENT STATE WORKING GROUP RECOMMENDATIONS ON STATE ACCESS TO INFORMATION

**PROBLEM:** The State Working Group on High-Level Radioactive Waste Management contends that technical data are not being provided to state review bodies at an early enough stage in the DOE decision process.

**BACKGROUND:** On February 16, 1983 following the January 7, 1983 passage of the Nuclear Waste Policy Act of 1982 the State Working Group on High-Level Radioactive Waste Management submitted to R. Morgan their recommendations on state access to information. R. Morgan's March 14, 1983 response to the State Working Group's corresponding secretary Gervers stated the Department's intent to establish procedures for data transmittal as an integral part of the consultation process formalized by the Act. The Act clearly provides the framework for implementing a more uniform approach to data publication and with this objective we have reviewed our existing procedures to identify improvements which would result in direct responsiveness to the State Working Group's recommendations. I therefore request your approval of our recommendations in this letter to implement the specific State Working Group's recommendations reiterated here:

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- 1) Lay out the decision process for selection of sites for characterization and for repository construction, including documents required for the evaluation and comparative analysis of sites.
- 2) Provide flow charts indicating major milestones, decision points, and document schedules for the site qualification process.
- 3) Notify states in advance of forthcoming draft or final documents and send documents promptly for state review.
- 4) Inform states simultaneously with contractors of all requests for proposals, contracts and subcontracts issued for repository siting activities within their boundaries, and provide copies of the proposed scope of work and a listing of deliverables within a reasonable period of time.
- 5) Discuss with states the expected contents and conclusions of draft contractor reports.
- 6) Discuss with states the documents they might wish to see in draft form, and provide access to reports (including draft contractor reports) which are of particular value to the state's review process.

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- 7) Provide access to raw data requested by states prior to evaluation by contractors (e.g., well drilling logs).
- 8) Include provisions in state/federal agreements which guarantee access to information in the manner proposed above.

DISCUSSION:

SWG Recommendation #1

The Act clearly specifies in Section 112(a) that the decision process for selection of sites be conducted according to guidelines. These guidelines are being developed with input of the states including a formal hearing process. Therefore the final guidelines and associated interactions with the states will provide the best definition of the decision process to the states.

SWG Recommendation #2

As soon as the guidelines called for by the Act are finalized the projects can define their master schedules for the first time. These master schedules will provide the information requested by the SWG recommendation #2. These master schedules will be supplemented within 15 months of the enactment of the Act with the Mission Plan as required by Section 301 of Title III of the Act.

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The Mission Plan will <sup>provide AN</sup> ~~be in the~~ informational basis sufficient to permit informed decisions to be made <sup>and will</sup> including the schedule and its rationale. The ONWI Project Plan (ONWI-19) will also be revised and issued to reflect the master schedule a few months after the master schedule is issued. Therefore we suggest that the best implementation of the SWG Recommendation #2 is to provide the states the master schedules for the projects, the Mission plan and project specific project plans (e.g., ONWI-19 for salt).

SWG Recommendation #3, #5 and #6

The DOE has provided draft reports to the states for comment routinely in the past particularly for the main programmatic documents. Since this is the current practice and we infer from the repetition of this request that the states are not fully satisfied that they see enough of the reports of interest to them at the draft stage. The issue then appears to be one of selection of which reports are appropriate to send to the states at what stage. We feel we can best address these SWG recommendations by producing key reports indexes and discussing them at monthly meetings with the states and NRC. This would allow the states and NRC to discuss with DOE what reports are in the system so that specific reports can be requested and discussion can take place on a report by report basis of when the most appropriate time for comments would be. We therefore propose publishing the following report indexes:

#5 Re expected contents + conclusions of draft contractor reports - ONWI does not always know just what conclusions a contractor will reach until the report is written, used or reviewed, etc. Anticipated results may be more appropriate for discussion.

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LW/WW

- 1) draft reports by WBS and report generator with abstract and production schedule.
  
- 2) final reports by WBS with abstract.

We have the capability to produce various indexes through the use of our RIS (see attached description). The most useful format of the indexes could be worked out with the NRC and states at the monthly meetings and an agenda item each month could be updated to the indexes and re-evaluation of what reports should be transmitted when. (See attached proposed standard agenda for monthly meeting with states).

SWG Recommendation #4

This recommendation can be implemented by a directive by DOE to contractors and subcontractors to mail announcements of RFPs to the appropriate contracts. This will only be effective if contacts to address the announcements to can be established as constant for a long period of time. We propose to work with the states to establish a focal point to data and announcement delivery so that changing distribution within the states and NRC has minimal impact on document and announcement receipt.

The RFP announcements can then be consolidated into a log which is updated monthly to include who wins the proposal and what the SOW and deliverables are defined as a contract award.

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SWG Recommendation #7

Implementation of this recommendation could also be facilitated by the creation of an index of raw data by salt basin. The individual decisions of which data should be put in topical reports, which in monthly status reports could then be reviewed and influenced by an expression of interest on the part of the states or NRC.

SWG Recommendation #8

The state/federal agreements required by the Act are being negotiated now and these SWG recommendations are being addressed.

CONCLUSIONS:

We feel we can be responsive by implementing the SWG recommendations through a combination of following the steps defined by the Act (e.g. preparation of guidelines, EA's, Mission plan, schedules), development of a variety of indexes to help the states and NRC focus their resources and questions as well as acquaint them with what is available, monthly meetings to review updates to indexes and check on data transmittals.

RECOMMENDATIONS:

- 1) Finalize guidelines

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- 2) Issue master schedule
- 3) Develop indexes to draft and final reports
- 4) Direct contractors and subcontractors to notify states and NRC of RFP's and awards with SOW's and milestones
- 5) Monthly meetings with states and NRC to provide updates to indexes and communicate state requests
- 6) Modify procedures for raw data documentation to assure publication and distribution to the states and NRC prior to analysis either through topical reports or monthly status reports as appropriate to the category of data collected.

J.O. Neff  
Program Manager  
NWTS Program Office

**DRAFT**

Approved: \_\_\_\_\_

Disapproved: \_\_\_\_\_

Date: \_\_\_\_\_

Concurrence: \_\_\_\_\_

C. George

~~R. Stein~~  
J. Fierl

M. Frei

NPO:JON:LAC:kgk

ST# 350-83

CONFIDENTIAL

**DRAFT**

HANDBOOK  
FOR  
PROVIDING UNANALYZED  
DATA  
TO  
INTERESTED PARTIES

U.S.DOE/NPO  
June 1983



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CONTENTS

1. INTRODUCTION.....
2. TYPES OF INFORMATION/DATA TO BE PROVIDED.....
3. INDEXES TO DATA TYPES .....
4. HOW TO ACCESS INFORMATION ABOUT THE SALT PROJECT.....
5. PROCEDURES FOR PROVIDING INFORMATION/DATA.....
6. CURRENT INDEX SHEETS.....

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## INTRODUCTION

This Handbook has been designed to provide a source of information, in one cover, on the U.S. Department of Energy's (DOE) project to make unanalyzed data from the Salt Project more easily available. The Handbook, which is in loose leaf form for easy updating, contains a description of the Salt Project, the types of information and data being generated, DOE's procedures for making data available, and the procedure for requesting data.

The last section of the Handbook is the Index in which the user can find a description of each data type being generated, whether it be a well log, a draft report, a photograph, or some other item soon to be released. The index sheet describes the data, its originator, the expected date of availability, the review process, whether it will be included in a future report, and directions for requesting it. The user is urged to file new index sheets in the Handbook so that his/her copy remains current.

The Handbook is maintained and updated by the U.S. DOE/NPO. Questions and comments should be sent to:

U.S. DOE/NPO  
Attn: Document Control  
505 King Avenue  
Columbus, OH 43201

June 17, 1983

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## TYPES OF INFORMATION/DATA TO BE PROVIDED

The National Waste Terminal Storage Program (NWTSP) was established in 1976 with the objective of developing a system for the permanent isolation of nuclear wastes. The Salt Project, managed by DOE/NPO, is part of the NWTSP. Through the NWTSP, the Department of Energy will provide facilities to permanently dispose of high-level waste in a manner that will ensure public health and safety and that will be environmentally acceptable. The program has placed principal emphasis on developing deep, underground repositories, with efforts targeted toward having the first facility operational between 1998 and 2006.

To reach this objective, an extensive program has been developed to find sites that would be suitable for a repository. The Salt Project has the mission to find suitable sites in the Gulf Coast, the Permian Basin in Texas, and the Paradox Basin in Utah. As work progresses toward the selection of specific sites, the DOE provides unanalyzed, raw data to the States and the NRC, as well as other interested parties, e.g., USGS, DOE prime contractors, and utility companies, to enable them to study and evaluate the information concurrently with DOE. The general types of information and data are described in this section of the Handbook.

### Data Types

Both unanalyzed, raw data and analyzed or processed data are made available. These classes are defined as:

- o, Unanalyzed, raw data are unprocessed and preliminary in nature; they have not been evaluated, approved, or signed off by the Office of Nuclear Waste Isolation (ONWI) or DOE. Examples are data from sensors/recorders, well logs, seismic charts, samples, and test results.

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- o Processed data are reviewed, evaluated, analyzed, approved, and signed off by ONWI and/ or DOE. Examples are reports (drafts for public comment and final reports) records, and memoranda.

Many different types of information/data are produced by the Salt Project.

The following are listed to indicate some of the kinds of data which can be classified as unanalyzed and for which we have identified procedures for publication and distribution within 30-45 days of generation:

- a) Chemical analyses results
- b) Age dating of samples
- c) Geophysical logs
- d) Geochemical analyses of water and rock samples
- e) Petrographic description of rocks
- f) Earthquake monitoring data
- g) Core photographs and descriptive logs
- h) Air photographs
- i) Environmental data
- j) Socioeconomic data
- k) Ogallala well data (Permian Basin)
- l) Hydrologic model (Gulf Coast)
- m) Basin analysis report (geophysical and seismic data)- (Gulf Coast)
- n) Seismic survey (raw data and report) for Louisiana
- o) Reports (various) for Gulf Coast, Permian and Paradox Basins

In addition to the Basin-specific types listed above, procedures have been implemented (see Procedure #6) for Requests for Proposal (RFP), Request for Quote (RFQ), and the Invitations for Bid (IFB) to be provided to all users as the contractors and subcontractors release them. Likewise, the Statement of Work (SOW) and list of contract deliverables for

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each contract issued by contractors and subcontractors will be made available to the NRC and the States.

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## INDEX TO DATA TYPES

The final section of the Handbook is the Index to data types. An index sheet has been developed to describe the various types. A sheet will be prepared as the item becomes available and distributed as a way to alert all users to future releases of data. A sample sheet is given on the following page to indicate the kinds of information that will be provided for each item, if applicable.

The index sheet also provides a mechanism to request a copy of the item. By checking the appropriate box and returning a copy of the form with address and signature, the user will receive a copy when distribution is made.

INDEX SHEET

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U.S.DOE/NPO

PROGRAM TO PROVIDE INFORMATION/  
DATA ON THE SALT PROJECT

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Work in Progress                                  Type of Data: \_\_\_\_\_  
 Final Product/Report                              WBS # \_\_\_\_\_

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Basin:      Gulf Coast                                  Title/Description: \_\_\_\_\_  
           Paradox    \_\_\_\_\_  
           Permian                                         \_\_\_\_\_

Abstract/Summary: \_\_\_\_\_

---

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Status:     In process     Planned     Published     Other \_\_\_\_\_

Expected Date of Availability: \_\_\_\_\_

Planned Review:    ONWI-Internal    DOE/NPO    Technical Peer Group  
                                  Solicited Comments on Final Report    Other \_\_\_\_\_

To be included in report: (Title) \_\_\_\_\_

---

Procedure for Dissemination to Interested Parties:    Technical Memorandum  
    Subcontractor Data Report    ONWI Report    DOE Report  
    Formal Contractor Report.(e.g., TBEG Well Completion Report)    Other: \_\_\_\_\_

---

Date Dissemination is Planned: \_\_\_\_\_

Originator of Data:    Woodward-Clyde        ERTEC        USGS        ORNL  
                                  Stone & Webster      TBEG        ONWI        PNL  
                                  Bendix -GJ             NUS        Other \_\_\_\_\_

Check here if you wish to  
receive a copy of this item:  
 Yes     No

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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Return to:  
U.S. DOE/NPO  
Attn: Document Control Office  
505 King Avenue  
Columbus, OH 43201

HOW TO ACCESS INFORMATION ABOUT  
THE SALT PROJECT

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Access

Access to both unanalyzed, raw data and processed data is provided by DOE in the following ways:

- 1) Unanalyzed, raw data -- the NRC or the Governor or Legislature of the State in which potential sites are located submit a written request to the Manager, DOE/NPO. The request should designate the name and address of the person to receive the data. This state representative will receive the Handbook and its updates. Additional copies of the Handbook will be provided upon request.
- 2) Processed/analyzed data -- the name and address of individual(s) or organizations who wish to receive this data (usually final reports) should be sent to the Manager, DOE/NPO to be added to the applicable mailing lists.
- 3) RFP's, RFQ's, IFB'S, Contracts (Statement of work and list of deliverables) -- the name and address of individual(s) or organizations who wish to receive copies of these documents should be sent to DOE/NPO for addition to mailing lists.
- 4) Access to computerized information system --the Governor's representative (and NRC representative) should contact the Manager, DOE/NPO to arrange to visit NPO to be briefed on the contents and potential for producing indexes tailored to the users's specific needs or interests.



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- 5) Bimonthly meetings with Salt State Representatives and the NRC will be held at NPO offices in Columbus, Ohio. These two-day meetings will provide status reports on program activities, schedules and plans, current and proposed field activities, the availability of new data and reports, and other topics as appropriate. The proposed agendas for these meetings would be sent to State representatives and the NRC in advance for comment and additions.

Response

State (or NRC) representatives shall be the contact with NPO for providing responses, reviews, or comments on the data and other documents they receive as part of this program. This representative will serve as the central point for all responses from the State or NRC and will collect and coordinate the responses of others and forward these to NPO. Such coordination is felt to be essential to assure that the flow of information between the various organizations is efficient and controlled.

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## PROCEDURES FOR PROVIDING DATA/INFORMATION

The following procedures have been designed to expedite the flow of data and other information between DOE, ONWI, their contractors or subcontractors as the case may be, and the States/NRC. It is probable that these procedures will not provide for all future contingencies; new and revised procedures will be issues as required and copies sent to all Handbook holders.

The following procedures are provided in this section:

<u>Procedure No.</u>	<u>Topic Addressed</u>
1	Providing Raw Data within 30 Days of Collection
2	Providing Access to Raw Data at Drill Site
3	Providing Access to Computer-Based Information Systems Indexes
4	Handling State Comments or Input
5	Providing Processed Data
6	Providing RFP's, RFQ's, IFB's, or the Contract Statement of Work and List of Deliverables
7	Updating the Index (for this Handbook)

PROCEDURE #1

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PROCEDURE FOR PROVIDING RAW DATA\*\*  
WITHIN 30 DAYS OF COLLECTION

**POLICY** Access to raw, unprocessed data shall be provided to the DOE and the states as rapidly as possible after collection, and at the request of DOE/NPO.

**BACKGROUND INFORMATION** Subcontractors will be instructed to collect data in a form compatible with early QA review and release. Every effort will be made to provide the data requested by the states in a timely manner.

**PROCEDURE**

**ONWI and Subcontractor Project Managers** The ONWI and subcontractor technical project managers who obtain the data shall perform the following actions before release to the states and the DOE:

1. Verify the data to assure nothing is missing.
2. Confirm quality via a QA review.
3. Assure that nothing is obviously invalid.
4. Refrain from altering the data in any way.

**A&IS** Data packages shall be prepared at ONWI by making a copy for DOE/NPO and one for the state to fulfill the request. A third copy shall be maintained by the A&IS Department. The data items shall be marked with the appropriate caveat to indicate their status: "RAW DATA", "NOT ANALYZED DATA", and a transmittal form prepared and signed off. Data packages shall be shipped by registered mail, as appropriate, to the designated state and DOE/NPO representatives.

Transmittal forms and receipts shall be logged and controlled by Administrative & Information Services (A&IS).

\*\* Types of data:

well logs  
results of tests

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## PROCEDURE FOR PROVIDING ACCESS TO RAW DATA AT DRILL SITE

- POLICY** Access to raw data shall be provided at the drill site to state representatives who are observers, when DOE/NPO so directs.
- BACKGROUND INFORMATION** Prior experience at the WIPP Project in which state representatives were present at the drilling of the last two holes may be indicative of the kind of future activities ONWI can expect. This procedure addresses such a contingency.
- PROCEDURE**
- ONWI Technical Project Manager** When state representatives are to be on-site as observers, the ONWI and subcontractor cognizant technical project managers and QA specialists shall be present to inspect the data and/or logs, charts, or other material, and confirm its quality before it is made available to the States. Subcontractor sign-off is required to indicate data were collected under QA control.
- If the ONWI technical project manager releases data to a state representative, he/she shall attach a caveat such as "RAW DATA", "NOT ANALYZED DATA" or another appropriate warning as to the status and condition of the data.
- ONWI project manager shall attach a release form which describes the data and is signed off by the ONWI technical project manager and the DOE/NPO representative.
- A&IS** The release form is forwarded by the ONWI technical project manager to Administrative & Information Services Department for control and storage.

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PROCEDURE #3

PROCEDURE FOR PROVIDING ACCESS TO  
COMPUTER-BASED INFORMATION SYSTEMS  
INDEXES

POLICY Access to computer-generated indexes will be made available to the NRC and the States

BACKGROUND INFORMATION ONWI has developed and maintained computer-based information systems, e.g., the Records & Information System (RIS), the SCP database, and others which contain references to correspondence, references and abstracts for technical reports, and extracts of the SCP. These information systems can be used to generate specialized indexes to facilitate data searches, e.g., index of final reports by WBS, index of subcontractor reports, and subject bibliographies.

PROCEDURE The requester contacts DOE/NPO Document Control Office and requests the index wanted.

ONWI The request is forwarded by DOE/NPO to ONWI where the search is performed and the index prepared.

DOE/NPO Results of the search in the form of a computer print-out are provided to DOE/NPO Document Control Office for shipment to the requester.

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PROCEDURE FOR HANDLING STATE COMMENTS\*\* OR INPUT

POLICY

State comments or input shall be incorporated in the decision process and in documents as appropriate.

BACKGROUND INFORMATION

State and public comments on key ONWI documents have been solicited as standard procedure during the past five years. This formal procedure establishes the policy for handling comments for the future.

PROCEDURE

States provide their comments in writing to DOE/NPO. The manager, NPO, transmits comments/input to the ONWI project office manager.

ONWI Project Manager

ONWI project managers/work package managers review comments/input and incorporate the information in the document as appropriate.

Written comments are published as an appendix to the final document or a letter response is provided to the commenter via NPO with an explanation of how the comments were/were not used.

\*\* State comments on draft documents sent to them for review and comment.

PROCEDURE #5

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PROCEDURE FOR PROVIDING PROCESSED DATA

POLICY

ONWI shall provide processed data (draft ONWI/subcontractor reports, final reports, program plans, RFP/contract statement of work and list of deliverables) as they are released to DOE for transmittal to the states.

BACKGROUND INFORMATION

During the past five years, ONWI has provided final reports, program plans, draft reports for state review and comment through DOE/NPO. This procedure formalizes the existing process.

PROCEDURE

The ONWI project office manager shall transmit processed data to DOE and the states as follows:

1. Notification shall be made in advance of forthcoming draft documents for review and final reports. NPO shall be notified by ONWI and they, in turn, shall notify the states.
2. Draft documents for review will be sent promptly and by express mail.
3. Discussion will be held with the states to discuss which documents they might want to see in draft and make them available.
4. Comments or input from the states on draft documents provided to ONWI project office manager by DOE/NPO for incorporation in final reports as appropriate.
5. ONWI shall maintain up-to-date mailing lists for each of the affected states, and distribute new documents in accordance with them.

DRAFT

PROCEDURE #6

PROVIDING RFP's, RFQ's, IFB's,  
CONTRACT STATEMENT OF WORK AND  
LIST OF DELIVERABLES

- POLICY** ONWI, DOE and their respective subcontractors, DOE Prime Contractors and the DOE Integrated Contractors shall provide copies of RFP's, RFQ's, IFB's, and the SOW and List of Contract Deliverables to the State Representatives when the resulting contract documents are made available to potential contractors and, in the latter case, to the successful proposers/bidders.
- BACKGROUND INFORMATION** The States require access to information concerning future action within their boundaries in regard to the Salt Project so that they are aware of what work is planned and who will be conducting the work, once contracts are let. This procedure addresses that requirement.
- PROCEDURE** The BPMD Contracts & Procurement Department, and the DOE/NPO Contracting Officer will arrange to provide copies of RFP's, RFQ's, IFB's, and the SOW and List of Deliverables to the State Representatives listed on the following page.
- ONWI Subcontractors** The BPMD Contracts & Procurement Department will provide copies of the subject documents for its subcontracts and will instruct its subcontractors to do likewise for all procurements they initiate. The subcontractors will send copies to BPMD C&P for transmittal through DOE/NPO to the State Representatives
- DOE/NPO** The DOE/NPO Contracting Officer will direct the issuance of the subject documents for its procurements and will instruct the DOE Primes and Integrated Contractors to do likewise through DOE/NPO.



DRAFT

STATE CONTACTS FOR TEXAS, UTAH, MISSISSIPPI, AND LOUISIANA

Louisiana

Dr. L. Hall Bohlinger  
Office of Environmental Affairs  
Louisiana Department of Natural Resources  
P.O. Box 44066  
Baton Rouge, Louisiana 70804

PH: 504-342-1265

Mississippi

Ronald Forsythe  
Nuclear Waste Program Manager  
Department of Energy and Transportation Board  
214 Watkins Building  
510 George Street  
Jackson, Mississippi 39202

PH: 601-961-4733

Texas

Steve Frishman, Director  
Nuclear Waste Projects Office  
Sam Houston Office Building, Room 204  
200 East 14th Street  
Austin, TX 78711  
PH: (512) 475-4444

Utah

Gary Tomsic  
Deputy Director  
Department of Community and Economic Development  
Room 6290  
State Office Building  
Salt Lake City, Utah 84114

PH: 801-533-5396

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PROCEDURE #7

PROCEDURE FOR UPDATING THE INDEX

- POLICY ONWI shall make regular updates to the Index to this Handbook to assure that changes in status for each product or report are recorded and new data/information are reported.
- BACKGROUND INFORMATION As work proceeds in each Salt State, there is a need to continuously update the index to reflect progress in current work and to report on newly initiated work.
- PROCEDURE ONWI Salt Basin Managers will provide periodic status reports on work that is in progress and initiate index sheets for new work. These reports shall be forwarded to the Administrative & Information Services (A&IS) for inclusion in the Index.
- ONWI Project Manager
- A&IS The Index will be updated and a package of new Index sheets will be forwarded to the Handbook users every 30 days.
- Users The users should place the new edition of the Index in their Handbooks and discard the old index sheets.

DRAFT

## CURRENT INDEX SHEETS

The following index sheets describe the data/information which is currently being produced by the Salt Program. As these data items become available, they will be released to users of the Handbook. New sheets will be prepared and distributed to holders of the Handbook as the data or information is generated.

DRAFT

Work in Progress  
 Final Product/Report

Type of Data: Raw unanalyzed  
WBS # 1, 3, 3, 4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Micro seismic  
Records

Abstract/Summary: Micro seismicity is being continuously  
monitored and data is collected monthly

Status:  In process  Planned  Published  Other

Expected Date of Availability: once per month

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) no report planned  
at this time

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report, (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: bimonthly

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
 Stone & Webster  TBEG  ONWI  PNL  
 Bendix -GJ  NUS  Other

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DRAFT

Work in Progress  
 Final Product/Report

Type of Data: DRAFT Report  
 WBS # ~~1, 3, 3, 4~~ 1, 3, 3, 4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Stratigraphy Topical Report

Abstract/Summary: This report will provide data on important stratigraphic and structural features in the vicinity of the Davis Canyon Site.

Status:  In process  Planned  Published  Other

Expected Date of Availability: 8/1/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Structural and Stratigraphic Relationships in the Vicinity of the Davis Canyon Site

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report, (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 9/1/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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Work in Progress  
 Final Product/Report

Type of Data: Draft Report  
WBS # 1.3.3.4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Hydraulic Testing  
Summary Report

Abstract/Summary: The report will present the results of hydraulic testing in the ER-1, and Kukat boreholes and long-term hydrogeologic tests in the GD-1 borehole. The long-term results will be compared to the results of the short-term and laboratory tests.

Status:  In process  Planned  Published  Other \_\_\_\_\_

Expected Date of Availability: 6/20/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other \_\_\_\_\_

To be included in report: (Title) Results of Hydraulic Tests at Gibson Dome No. 1, Elk Ridge No. 1, and E. T. Kukat Boreholes

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report, (e.g., TBEG Well Completion Report)  Other: \_\_\_\_\_

Date Dissemination is Planned: 7/20/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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Work in Progress  
 Final Product/Report

Type of Data: DRAFT Report  
WBS # 1.3.3.4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Water Balance Topical Report

Abstract/Summary: This report will present the results of a preliminary water balance calculation for the hydrologic system in the study area.

Status:  In process  Planned  Published  Other

Expected Date of Availability: 7/25/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Preliminary water balance Calculations for the Gibson Dome Study Area, Utah

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report, (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 8/25/83  
~~4/70/83~~

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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Type of Data: DRAFT Report  
WBS # 1.3.3.4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Marble Canyon  
Topical Report

Abstract/Summary: This report will discuss the chemistry of  
The Marble Canyon springs and the possibility  
that these springs represent discharge points  
for the Leadville Limestone

Status:  In process  Planned  Published  Other

Expected Date of Availability: 7/15/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Results of geochemical  
analysis of <sup>water from</sup> Marble Canyon Springs, ~~and~~ <sup>and</sup> ~~mineralization~~

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report.(e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 7/15/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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WRAE

Work in Progress  
 Final Product/Report

Type of Data: Draft Report  
 WBS # 1, 2, 3, 4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Geophysics Topical  
 Report

Abstract/Summary: This report will present the results  
 of the interpretation of seismic reflection lines,  
 gravity surveys and aeromagnetic surveys  
 purchased for the Paradox Basin NWTs Program.

Status:  In process  Planned  Published  Other

Expected Date of Availability: 7/29/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Results of Geophysical  
 Investigations in The Paradox Basin, Utah

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report, (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 8/29/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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DRAFT

Work in Progress  
 Final Product/Report

Type of Data: Draft Report  
WBS # 1.3.3.4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Lithofacies Topical  
Report

Abstract/Summary: this report presents the results of a lithofacies study conducted to produce a three-dimensional model of the structure, stratigraphy and facies and thickness changes that occur within the Devonian through Permian strata in the study area

Status:  In process  Planned  Published  Other

Expected Date of Availability: 5/31/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) \_\_\_\_\_

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report, (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 6/30/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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Work in Progress  
 Final Product/Report

Type of Data: Draft Report  
WBS # \_\_\_\_\_

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Seismology Typical Report

Abstract/Summary: this report will contain the results of seismologic studies of the Paradox Basin Utah, including the operation of a 16 station micro seismic network

Status:  In process  Planned  Published  Other \_\_\_\_\_

Expected Date of Availability: 6/15/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Seismicity of the Paradox Basin and the Colorado Plateau Interior

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report.(e.g., TBEG Well Completion Report)  Other: \_\_\_\_\_

Date Dissemination is Planned: 7/15/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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Work in Progress  
 Final Product/Report

Type of Data: Draft Report  
WBS # 1, 3, 3, 4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: SALT Valley ACR  
Volume

Abstract/Summary: This report is a summary geologic  
characterization report for the Salt Valley  
study area in Southeast Utah.

Status:  In process  Planned  Published  Other

Expected Date of Availability: 7/15/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Geologic Characterization Report  
for the Paradox Basin Study Region Utah Study Areas Vol. III Salt Valley

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report. (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 8/15/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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Type of Data: Draft Report  
WBS # 1, 3, 3, 4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Quaternary Topical Report

Abstract/Summary: This report will summarize the Quaternary investigations conducted since the publication of The Paradox Basin Area Characterization Report

Status:  In process  Planned  Published  Other

Expected Date of Availability: 7/1/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Results and Summary of Quaternary Investigations in the Paradox Basin, Utah

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report, (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 8/1/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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Work in Progress  
 Final Product/Report

Type of Data: Draft Report  
WBS # 1, 3, 3, 4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Alternate Study Areas  
Topical Report

Abstract/Summary: This report contains a re-evaluation of the Paradox Basin Region to determine if any parts of the Basin that had not been identified in previous studies might be suitable for a more detailed evaluation as a nuclear waste repository site.

Status:  In process  Planned  Published  Other

Expected Date of Availability: 5/30/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Investigation of Potential Alternate Study Areas In the Paradox Basin Region

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report, (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 6/30/83

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 Bendix -GJ  NUS  Other

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Work in Progress  
 Final Product/Report

Type of Data: Draft Report  
WBS # 1, 3, 3, 4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Hydrologic Modeling  
Topical Report

Abstract/Summary: This report will contain a summary and results of the numerical modeling of the hydrologic flow system in the study area

Status:  In process  Planned  Published  Other

Expected Date of Availability: 9/30/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Results of numerical modeling of the hydrologic flow system in the Gibson Dome Area, Utah.

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report. (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 10/30/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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DRAFT

Work in Progress  
 Final Product/Report

Type of Data: Draft Report  
WBS # 1, 3, 3, 4

Basin:  Gulf Coast  
 Paradox  
 Permian

Title/Description: Rock/Water  
Topical Report

Abstract/Summary: This report will integrate mineralogic data and water chemistry in formation from the Gibson Dome area into a conceptual model of rock-water interaction.

Status:  In process  Planned  Published  Other

Expected Date of Availability: 9/30/83

Planned Review:  ONWI-Internal  DOE/NPO  Technical Peer Group  
 Solicited Comments on Final Report  Other

To be included in report: (Title) Conceptual Model of Rock-Water interactions in a portion of The Paradox Basin, Utah

Procedure for Dissemination to Interested Parties:  Technical Memorandum  
 Subcontractor Data Report  ONWI Report  DOE Report  
 Formal Contractor Report, (e.g., TBEG Well Completion Report)  Other:

Date Dissemination is Planned: 10/30/83

Originator of Data:  Woodward-Clyde  ERTEC  USGS  ORNL  
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 Bendix -GJ  NUS  Other

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USGS-OFR-83-141

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USGS-OFR-83-141

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Geohydrologic and Drill-Hole Data for Test Well USW H-1,  
Adjacent to Nevada Test Site, Nye County, Nevada

Open-File Report 83-141

1983

Prepared by the U.S. Geological Survey

for the

Nevada Operations Office  
U.S. Department of Energy  
(Interagency Agreement DE-AI08-78ET44802)

GEOLOGIC CHARACTER OF TUFFS IN THE UNSATURATED ZONE AT YUCCA MOUNTAIN, SOUTHERN NEVADA

Robert B. Scott  
Richard W. Spengler  
Sharon Diehl

U.S. Geological Survey, MS 954  
Denver Federal Center  
Denver, CO 80225

A. R. Lappin  
Sandia National Laboratories  
Box 5800  
Albuquerque, NM 87185

Michael P. Chornack  
Fenix & Scisson  
Box 498  
Mercury, NV 89023

ABSTRACT

At Yucca Mountain, a potential site for a high-level nuclear waste repository on the Nevada Test Site in southern Nevada, evaluation of the geologic setting and rock physical properties, along with previous regional hydrologic studies, has provided background that can be used for construction of a preliminary conceptual hydrologic model of the unsaturated zone.

The 500-m-thick unsaturated portion of Yucca Mountain consists of alternating layers of two contrasting types of tuff. One type consists of highly fractured, densely welded, relatively nonporous but highly transmissive ash-flow tuffs. The other type consists of relatively unfractured, nonwelded, highly porous but relatively nontransmissive, argillic and zeolitic bedded tuffs and ash-flow tuffs. The contrast between these two sets of distinctive physical properties results in a stratified sequence best described as "physical-property stratigraphy" as opposed to traditional petrologic stratigraphy of volcanic rocks.

Superimposed on this layering are two sets of faults and fractures: one strikes north-northwest (N. 15° W. to N.

4

TWO-DIMENSIONAL, STEADY-STATE MODEL OF GROUND-WATER FLOW,  
NEVADA TEST SITE AND VICINITY, NEVADA-CALIFORNIA

---

U.S. GEOLOGICAL SURVEY  
WATER-RESOURCES INVESTIGATIONS 82-4085

Prepared in cooperation with the  
U.S. DEPARTMENT OF ENERGY