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WM Record File
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WM Project 1
Docket No.
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MEMORANDUM FOR: Hubert J. Miller, Chief
Repository Projects Branch
Division Waste Management

FROM: Regis Boyle, Section Leader
Environmental & Regulation Section
Repository Projects Branch

SUBJECT: COMPLETION OF OPS PLAN COMMITMENT EA ENVIRONMENTAL REVIEW
(OPS 53141212.7, 53141222.7, and 53141232.7)

The Repository Projects staff (RP) has established a comprehensive Environment Assessment (EA) review team for the environmental portion of the EA's. The environmental team was developed to cover all environmental areas of the EA's. This review team is now comprised of personnel from the Office of Nuclear Reactor Regulation (NRR), the Division of Fuel Cycle and Material Safety (FC) and the Division of Waste Management (WM).

RP developed a statement of work that described the type of technical assistance that is needed to review the environmental portions of the EA's. At the July 5 meeting of the Waste Management Review Group, the NRR representative proposed that NMSS investigate the use of NRR staff for environmental analysis. As result, NRR has agreed to undertake the bulk of environmental analysis of the EA's.

After a series of informal discussions between NRR and RP staff, a memorandum arrived from NRR dated July 3, 1984 indicating a willingness to commit the necessary NRR personnel to assist NMSS in the review of the environmental and socioeconomic aspects of EA's (Enclosure 1). On August 28, 1984 RP prepared a memorandum outlining the points of agreement necessary for NRR to undertake the review (Enclosure 2). At meetings on September 12 and 17 between NRR and RP, agreement was reached on all points necessary for NRR to undertake its part of the EA review. On September 5, 1984, NRR offered technical support giving the EA review a "high priority" and authorizing overtime if necessary to meet schedules (Enclosure 3). RP has provided NRR with copies of chapters of the preliminary draft EA's and on September 20, gave a briefing covering the important parts of the Nuclear Waste Policy Act and DOE's Siting Guidelines necessary for NRR to understand NRC's role in the EA review. NRR has developed teams to cover review of all the EA's and is prepared to undertake the review as soon as the EA's are published. RP and NRR staffs are continuing to prepare for EA's by reviewing the preliminary draft chapters of the EA's and locating references necessary for the EA review.

OFC	:WMP:ejc	:WMP	8410120312	841001			
			PDR WASTE	WM-1	PDR		
NAME	:WLilley	:RBoyle					
DATE	:9/ /84	:9/ /84					

There is also a cooperative agreement with the Division of Fuel Cycle and Material Safety (FC) for reviewing the environmental aspects of transportation of spent fuel and waste. RP had discussions with the Division of Fuel Cycle and Material Safety (FC) on July 27 and August 7 on the transportation analysis necessary in the EA review. On August 1, RP and FC staffs attended a DOE meeting with the States on transportation at which DOE, Department of Transportation, Federal Emergency Management Agency, NRC, and States presents views on the transportation issue. At the August 7 meeting, FC agreed to undertake the review of the radiological and non-radiological environmental impacts associated with the transportation of radioactive materials to the repository (Enclosure 4). Staff has provided FC with copies of the DOE's siting guidelines that deal with transportation and other information necessary to undertake their transportation analysis.

RP contacted RES to determine the level of involvement they anticipated in the EA review. RES will provide interim information transfer reports on their ongoing research projects related to EA's. On September 11, RES provided information from the research program to aid the NRC in the EA reviews which RP forwarded to the other WM branches for review.

The EA environmental review team is now in place and prepared to undertake the EA review. As of September 17, we have completed our preparation for the EA review as specified by Operating Plan Commitments 5314212.7, 53141222.7, and 53141232.7.

~~XXXXXXXXXXXXXXXXXXXX~~

Regis Boyle, Section Leader
 Repository Projects Branch
 Division of Waste Management

Enclosures:

1. Vollmer to Denton Memorandum July 3, 1984
2. Davis to Denton Memorandum August 28, 1984
3. Vollmer to Browning Memorandum September 5, 1984
4. Browning to Cunningham Memorandum August 28, 1984

OFC	: WMRP:ejc	: WMRP	: RB	: Vollmer	:	:	:	:
NAME	: WLilley	: RBoyle	:	: [Signature]	:	:	:	:
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UNITED STATES Enclosure 1:
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Miller
Bell
Bunting

JUL 3 1984

MEMORANDUM FOR: Harold R. Denton, Director
Office of Nuclear Reactor Regulation

FROM: Richard H. Vollmer, Director
Division of Engineering

SUBJECT: NMSS TECHNICAL ASSISTANCE FIN NO. TBD09 RELATED TO THE
ENVIRONMENTAL AND SOCIOECONOMIC ASSESSMENTS OF DOE
WASTE RESPOSITORY SITING

*I called Vollmer
on 7/26/84 and
asked what Dent
reaction was.
Vollmer said he
get back to
next year
I told him
would*

We have been informed that NMSS is proposing a technical assistance contract with ORNL for extensive environmental and socioeconomic review of DOE-prepared environmental assessments of candidate sites for a high level waste (HLW) repository. The proposed TAC is at approximately a 2 PSY level in FY 85 and 1 PSY in FY 86. The Waste Management Review Group will meet on this proposal on July 5, 1984.

We believe that these assessments can be performed for NMSS by NRR technical review staff with advantages to both Offices, and at the same time contribute to the maintenance of quality inhouse environmental and socioeconomic expertise. The Agency will benefit from the use of existing NRC resources through more efficient utilization of available staff and stretching of limited financial resources. The Division of Engineering, with the addition of support from DSI on radiological and transportation impacts, can support all of the technical areas described in Section 2.2 of the statement of work. The DE staff has indepth experience in performing these reviews inhouse as well as through contracts. All NRR socioeconomic assessments have been conducted inhouse in recent years. This experience is summarized in the attachment. DE has considerable experience in technical assistance project management and interoffice and interagency cooperation. Organizationally, we suggest that the EHEB coordinate the effort within NRR and serve as liaison with NMSS. NRR would provide technical review to NMSS, the Project Manager.

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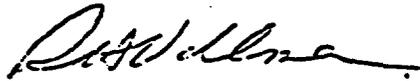
The NMSS contract SOW implies that much of the background and review may be concentrated early in the contract period, probably from August 1984 through February 1985. A modest effort remains for DE with respect to several FFS reviews during the period September - December 1984. We believe that NRR could accommodate both efforts without significant schedular impacts. We recommend that the strongest assurances be given to NMSS that their review schedules would be met. This commitment can be reinforced by incorporating these activities as line items in SES contracts and by authorizing planned overtime if necessary.

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JUL 3 1984

In summary, we recommend that, for the good of the Agency, efforts be made to have this NMSS work performed by existing NRC resources rather than going to an outside contractor. This will permit better utilization of available staff and limited financial resources, in addition to providing a more consistent treatment of environmental matters within the NRC.



Richard H. Vollmer, Director
Division of Engineering

Attachment:
As stated

cc: W. Dircks
J. Davis
E. Case
R. Browning

Relevant NRR Technical Capabilities

In the Division of Engineering are two branches with personnel who have a total of about 75 years experience with NRC/AEC in environmental, natural resource, and socioeconomic impact analysis. These are the Environmental and Hydrologic Engineering Branch and the Site Analysis Branch. Much of their efforts have been associated with power plant siting, construction, operation, and site restoration. These groups also have had significant involvement with analyses of waste repositories, human health effects of the nuclear fuel cycle, archeology and historic preservation, and inter-agency task forces and review groups related to NPDES issues and endangered species consultations. Some specifics are:

- Served on the Table S-3 task force and presented testimony at the hearing.
- Prepared the socioeconomic sections of the Draft "Waste Management Staff Guide: Format and Content of Environmental Reports for Conventional Geologic High Level Waste Repositories" dated November 1978.
- Reviewed and commented on "National Waste Terminal Storage Program--Environmental Survey Plans: Vols. 1 & 2" for seven separate regions of the U.S.
- Prepared all or parts of several dozens of EISs, EIAs, and other impact documents.
- Provided leadership in project management for production of multidisciplinary EISs and contractor-prepared research and EIS input.

Also available within NRR is the Radiological Assessment Branch, with a great deal of expertise in the radiological impact assessments associated with power plant operation and the transportation of radioactive materials.

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AUG 28 1984

MEMORANDUM FOR: Harold R. Denton, Director
 Office of Nuclear Reactor Regulation

FROM: John G. Davis, Director
 Office of Nuclear Material Safety
 and Safeguards

SUBJECT: NRR REVIEW OF NUCLEAR WASTE REPOSITORY ENVIRONMENTAL
 ASSESSMENT

This is to confirm our agreement concerning use of Office of Nuclear Reactor Regulation (NRR) personnel in the environmental review of DOE's environmental assessments (EA's) for nuclear waste repositories. Since the Waste Management Review Group meeting on July 5, 1984, at which the NRR representative proposed that NMSS investigate use of NRR staff for environmental analysis, we have had informal discussions with NRR staff. Also we withheld the placing of a technical assistance contract with Oak Ridge National Lab for the EA review. A memorandum of July 3 from R. Vollmer to you indicated that he was willing to commit the necessary personnel to assist NMSS in the environmental and socioeconomic aspects of the environmental assessments.

The staff's level of review for the environmental assessments is described in the standard review plan for draft environmental assessments. As stated in the standard review plan, the objectives of the staff's review are to (1) identify and review potential licensing issues and associated data, interpretations, and performance assessments which may be important during site characterization, and (2) identify and review potential environmental issues and associated data, interpretations and assessments that might result in NRC being unable to adopt DOE's environmental impact statement as required by the Waste Act.

NMSS staff has identified the types of disciplines that NRR could perhaps provide in the review of these environmental assessments. These disciplines are listed on Enclosure 1. Based on discussions between our staffs, it is my understanding that NRR can provide expertise in these technical areas. It is my understanding that we are in agreement on the following points for NRR's review of the EA's.

- (1) The EA reviews will receive top priority with the NRR management and staff.
- (2) The NRR personnel assigned to the review will receive project management and technical direction from the NMSS project managers. This will be necessary to facilitate meeting the short review schedule.

- (3) The NRR personnel will be expected to perform preparatory work prior to receipt of the environmental assessments. (e.g., meetings with NMSS project managers, site visits, review of reference documents, etc.).
- (4) From the time of receipt of the environmental assessments until the issuance of staff comments, the assigned NRR personnel will be fully dedicated to the EA review, to the extent deemed necessary by the NMSS project manager. The NRR staff may be located in Silver Spring during the EA review as this may be needed to assure adequate and timely coordination with project managers and other team members.
- (5) After the submittal of comments to DOE on each environmental assessment, the NRR personnel will, from time to time, be expected to assist the NMSS staff on follow-up activities related to their particular portion of the review.

The NRC's waste management program is based on the premise that, in the absence of unresolved safety concerns, the NRC regulatory program will not delay implementation of the Executive Branch's program. To be able to meet this commitment, NRR's technical resources in the specified areas will be needed virtually on demand over the next six to nine months as DOE completes its site screening process and the President makes decisions on the sites to be characterized. I appreciate your agreement to provide the support described above.

(Signed) John G. Davis
 John G. Davis, Director
 Office of Nuclear Material Safety
 and Safeguards

Enclosure:
 As stated

OFC	:WMP:bb	:WMP	:WMP	:DWM	:DMW	:NMSS	:NMSS
NAME	:BLilley	:RBoyle	:HMiller	:MJBe11	:REBrowning	:DMAusshardt	:JGDavis
DATE	:8/ /84	:8/ /84	:8/ /84	:8/ /84	:8/24/84	:8/24/84	:8/24/84

SPECIALISTS NEEDED FOR ENVIRONMENTAL IMPACT (NEPA) PORTIONS OF EA REVIEW

Based on a review of the preliminary draft of the EA's the following specialists will be needed for EA review.

1. Natural Resources Planner
2. Water Quality Analyst
3. Land use Planner
4. Terrestrial Ecologist
5. Aquatic Ecologist
6. Meteorologist (Climatologist)
7. Air Quality Analyst
8. Noise Analyst
9. Aesthetic Resources Analyst
10. Archaeological, Cultural and Historical Resources Analyst
11. Radiological Impact Analyst
12. Transportation Analyst (non-radiological)
13. Socioeconomic Analyst

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555



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WM Record File
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WM Project: ~~TBD09~~
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SEP 5 1984

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

FROM: Richard H. Vollmer, Director
Division of Engineering, NRR

SUBJECT: NRR SUPPORT OF NMSS FOR ENVIRONMENTAL AND
SOCIOECONOMIC REVIEWS OF DOE WASTE REPOSITORY
SITE ASSESSMENTS

In accordance with H. Denton's memorandum of August 29, 1984 (copy attached) and as a follow-up on previous discussions between members of our staffs, we are offering NRR technical support in your environmental reviews of the DOE waste repository site assessments. Instructions received from H. Denton indicate NRR's commitment to satisfying your needs for concurrent review of DOE's site assessments; i.e. NRR would give high priority to the NMSS effort if staff resource conflicts arise during the review period following receipt of DOE site assessments. The staff would also be available for related follow-up work as required.

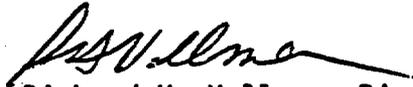
With reference to the proposed Statement of Work for NMSS FIN No. TBD09 which we have reviewed, the Division of Engineering, with the addition of support from DSI on radiological and transportation impacts, can support all of the technical areas described in Section 2.2 of the Statement of Work. The NRR staff has indepth experience in performing these reviews inhouse as well as through contracts. All NRR socioeconomic assessments have been conducted inhouse in recent years. NRR has considerable experience in technical assistance project management and interoffice and interagency cooperation. Organizationally, we suggest that the Environmental and Hydrologic Engineering Branch coordinate the effort within NRR and serve as liaison with the NMSS Project Manager.

Robert E. Browning

-2-

SEP 5 1984

We are available to meet at your convenience to work out the details of the NRR staff support. The initial contact for this activity will be R. Ballard who may be reached at 27972.



Richard H. Vollmer, Director
Division of Engineering
Office of Nuclear Reactor Regulation

Attachment:
As stated

cc: J. Davis
R. Cunningham
R. Bernero



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

AUG 29 1984

MEMORANDUM FOR: Richard H. Vollmer, Director
Division of Engineering

Robert Bernero, Director
Division of Systems Integration

FROM: Harold R. Denton, Director
Office of Nuclear Reactor Regulation

SUBJECT: NRR SUPPORT OF NMSS FOR REVIEW OF DOE WASTE
REPOSITORY SITE ENVIRONMENTAL ASSESSMENTS

In response to R. Vollmer's memorandum to me of July 3, 1984, I have determined that the proposed support to NMSS in reviewing DOE's waste repository site assessments is an important and appropriate use of NRR staff resources. I am hereby directing you to proceed with the activity and suggest that R. Vollmer take the lead in making the necessary formal arrangements for the activity with R. Browning, Director, Division of Waste Management, NMSS.

In view of the critical need for timely completion of the NMSS reviews, your support effort should assume the same high priority as NRR licensing review activities in the event of schedule conflicts. If conflicting priorities threaten either NRR or NMSS scheduling, you are advised that planned overtime will be authorized to accomplish both responsibilities.

A handwritten signature in dark ink, appearing to read "HR Denton".

Harold R. Denton, Director
Office of Nuclear Reactor Regulation

cc: W. Dircks
J. Davis
E. Case
R. Browning
R. Cunningham

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- 1 - 1984

MEMORANDUM FOR: Richard E. Cunningham, Director
Division of Fuel Cycle and Material Safety

FROM: Robert E. Browning, Director
Division of Waste Management

SUBJECT: REVIEW OF TRANSPORTATION SECTION OF HLW CANDIDATE
SITE ENVIRONMENTAL ASSESSMENTS

This is to confirm our agreement as stated in your August 3 memorandum on the role of FC in reviewing the transportation related sections of the Environmental Assessment (EA). With this agreement the details of the review can be worked out between the Repository Projects Branch and FC staff. Mr. John Cook of your staff has been added to our site teams as the transportation representative so he will receive all the correspondence. The latest site team roster is enclosed.

As you requested, we have contacted RES to enlist the aid of Norman Eisenburg for your review. We are still investigating Mr. Eisenburg's availability to assist in the review. Also as requested, we have arranged a meeting with DOE on the transportation model, input data and documentation for October 3 in the Forrestal Building, Washington, D.C.

If you have any questions please contact Regis Boyle (x74799) or Bill Lilley (x74798) of the Repository Projects Branch who will be coordinating the environmental portion of the EA review.

Original signed by
MICHAEL J. BELL

Robert E. Browning, Director
Division of Waste Management

Enclosure:
As stated

*SEE PREVIOUS CONCURRENCE

OFC	:WMRP:bb*	:WMRP*	:WMRP	:DWM	:	:	:
NAME	:BLilley	:RRBoyle	:HMiller	:REBrowning	:	:	:
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