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101/MFW/86/11/10/MEETING

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MEMORANDUM FOR: Paul Hildenbrand, BWIP Project Manager
 Repository Projects Branch
 Division of Waste Management

FROM: Michael F. Weber, WMGT
 Division of Waste Management

SUBJECT: SUMMARY OF PRE-MEETING FOR BWIP HYDROLOGY DATA REVIEW

On November 6-7, 1986, the NRC BWIP Hydrology Review Team convened a pre-meeting for the upcoming BWIP Hydrology Data Review scheduled for December 2-5, 1986. The meeting was held in Room 106/110 in the Willste Building from 8:00 am to 5:00 pm on November 6 and from 8:15 am to approximately 3:30 pm on November 7. The objectives of the meeting included the following: (1) to prepare for the BWIP Hydrology Data Review, (2) to assess the strategy for hydrologic testing described in NRC's BWIP Site Technical Position 1.1, and (3) to discuss a review of "Groundwater Travel Time Analysis for the Reference Repository Location at the Hanford Site" (SD-BWI-TI-303) that was prepared by Nuclear Waste Consultants, Inc. A revised agenda for the meeting is provided as Enclosure I; meeting participants are listed in Enclosure II. Enclosure III provides the signed summary meeting notes for the meeting.

Please contact me if you would like to discuss the meeting or the enclosed summary meeting notes.

15/
 Michael F. Weber
 Geotechnical Branch
 Division of Waste Management

Enclosures:
 As Stated

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

BWIP HYDROLOGY REVIEW TEAM MEETING
NOVEMBER 6, 1986

Session 1: Data Review

Introduction (Weber)	8:00
Schedule for Data Review (Weber)	8:05
Conduct of Data Review (Hildenbrand/Weber)	8:15
Information to be Reviewed (Coleman/Group)	8:30
Review Documentation (Weber/Group)	8:45
Break	9:00
Review Responsibilities (Group)	9:15
Discussion	10:15
Data Review Wrap-up (Weber/Coleman)	11:00
Lunch	12:00

Session 2: Testing Strategy Review

Introduction (Weber)	1:30
SCP Preparation Strategy (Hildenbrand/Weber)	2:00
Break	2:15
Review of STP 1.1 (Weber/Coleman/Group)	2:45
Adjourn First Day	5:00

BWIP HYDROLOGY TEAM MEETING
NOVEMBER 7, 1986
(Continued from November 6)

Session 3: Creston Site Visit

Summary of In-Situ Contract (Chery)	8:00
Creston Site Visit	8:15
Discussion	9:00

Session 4: Discussion of NWC Review

NWC Review of SD-BWI-TI-303 (Weber/Group)	10:00
Discussion of NWC Review and Analysis	10:15
NWC Mini-Report Review (Galloway)	11:00
Lunch	11:30
Summary of NWC Review (Brown)	12:30
Discussion of NWC Review (Weber/Group)	1:00
QA Review Responsibilities* (Kennedy/Group) (*carried over from morning session on 11/6/86)	3:00
Summary of Meeting (Weber/Group)	3:15
Adjourn	3:45

101/MFW/86/11/07/MEETING

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SUMMARY MEETING NOTES OF NRC BWIP HYDROLOGY REVIEW TEAM MEETING
NOVEMBER 6-7, 1986

Introduction

The NRC BWIP Hydrology Review Team was met on November 6-7, 1986, to prepare for the upcoming BWIP Hydrology Data Review (December 2-5, 1986), to discuss the strategy for hydrologic testing described in NRC's BWIP Site Technical Position 1.1, and to discuss a review of "Groundwater Travel Time Analysis for the Reference Repository Location at the Hanford Site" (SD-BWI-TI-303) prepared by Nuclear Waste Consultants, Inc. (NWC). These notes summarize the results of the meeting.

Data Review

The Hydrology team proposed review teams for the upcoming BWIP Hydrology Data Review as follows:

A. Monitoring Installations

Lead: Mike Galloway, Terra Therma Inc. (for NWC)
Members: Roy Williams, Williams and Associates (W&A)
Fred Marinelli, Terra Therma Inc. (for NWC)
Michael Weber, NRC

B. Geologic Information (Related to Hydrogeologic Models)

Lead: Roy Williams
Members: Paul Davis, Sandia National Laboratory (SNL)
Mark Logsdon, NWC
Michael Weber, NRC
Harold LeFevere, NRC

C. Hydraulic Head Data

Lead: Gerry Winter, W&A
Members: Paul Davis, SNL
Mike Galloway, Terra Therma (for NWC)
Adrian Brown, NWC
Neil Coleman, NRC
Dale Ralston, W&A
Harold LeFevere, NRC

D. Hydrogeologic Laboratory Testing Data (if available)

Lead: Adrian Brown, NWC
Members: Neil Coleman, NRC
Michael Weber, NRC
Gerry Winter, W&A

E. Hydraulic Testing Data

Lead: Dale Ralston, W&A
Members: Paul Davis, SNL
Fred Marinelli, Terra Therma (for NWC)
Adrian Brown, NWC
Harold LeFevere, NRC
Michael Weber, NRC

F. Hydrochemistry Data

Lead: Mark Logsdon, NWC
Member: Neil Coleman, NRC

STP 1.1

The group concluded that STP 1.1 still provides a viable strategy for hydrologic testing at the Hanford site, although it could be supplemented to provide for characterization of effective porosity and resolution of other significant aspects of site hydrogeology. The strategy is compatible with both deterministic and deterministic-stochastic approaches to predict groundwater travel times.

NWC's REVIEW OF SD-BWI-TI-303

The group discussed the review performed by NWC of the document entitled "Groundwater Travel Time Analysis for the Reference Repository Location at the Hanford Site" (BWI-SD-TI-303). Adrian Brown summarized NWC's review and the technical details of NWC's calculations of pre-waste emplacement groundwater

travel times for the Hanford site. The discussion resulted in the following positions:

NWC (as stated in NWC's review of June 13, 1986)

It is unlikely that the Hanford site meets the 1000-year pre-emplacment groundwater travel time criterion based on an analysis using existing information.

NRC Staff

Available information is insufficient to determine whether the Hanford site meets the 1000-year pre-emplacment groundwater travel time criterion.

The NRC staff position is endorsed by Williams and Associates and Paul Davis of the Sandia National Laboratory. NRC staff will request that NWC respond to comments made about the NWC analysis as directed by the NRC staff. NWC's response will identify the assumptions upon which their analysis is based, the supporting data, and a discussion of the uncertainties associated with the groundwater travel time calculations.

Approvals

For Nuclear Waste Consultants, Inc.: Mary London ^{Project Manager} 86/11/07

For Williams and Associates, Inc.: Roy E. Williams 86/11/07

For the NRC staff: Silak R. Verma 86/11/07

ENCLOSURE II

NRC PRE-MEETING FOR BWIP HYDROLOGY DATA REVIEW (ON 12/2-5/86)
NOVEMBER 6-7, 1986, IN THE FIRST FLOOR CONFERENCE ROOM OF THE WILLSTE BLDG.

<u>NAME</u>	<u>AFFILIATION</u>	<u>TELEPHONE</u>
1. PAUL HILDENBRAND	NRC	(301) 427-4672
2. Mark Logsdon	Nuclear Waste consultants	303/973-7495
3. ADRIAN BROWN	NRC	(303) 973-7495
4. HAROLD LEFÈVRE	NRC/GT	(301) 427-4592
5. ROY E. WILLIAMS	W+A	208 883 0153
6. DALE R ROUSION	Williams & Assoc.	208 855-7977
7. Gerry Winter	Williams & Assoc.	208-883-0153
8. Tilak R. Verma	NRC	(301) 427-4533
9. FRED MARINELLI	TERRA THERMA	(505)-973-7492
10. MICHAEL GALLOWAY	TERRA THERMA	(303) 973-7492
11. Neil Coleman	NRC/WMG	(301) 427-4131
12. Paul DAVIS	Sandia	(505) 846-5421
13. David Brooks	NRC	427 4543
14. Don Chery	NRC	433-7665
15. Jim KENWOD	NRC	927-9786
16. MICHAEL WEBER	NRC	(301) 427-4746
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18.		
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