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NATARAJA

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August 28, 1984

Mysore S. Nataraja  
Waste Management Engineering Branch  
Division of Waste Management  
U.S. Nuclear Regulatory Commission  
7915 Eastern Avenue  
Silver Spring, MD 20910

Dear Dr. Nataraja:

Enclosed please find a "Trip Report" based on Krishan Wahi's participation in a "Data Review Meeting" in Columbus, Ohio, during August 20-24, 1984.

If you have any questions, please contact me at FTS 844-5303, or Krishan Wahi at 844-6268.

Sincerely,



Everisto J. Bonano  
Waste Management Systems  
Division 6431

EJB:6431:bh

Copy to:

NRC J. Peshel  
6431 E. Bonano  
6431 K. Wahi

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## TRIP REPORT

This report summarizes the activities associated with the "Data Review Meetings" in Columbus, Ohio, on August 20-24, 1984.

A pre-meeting among NRC staff and consultants was held on August 20, 1984, to plan strategy and define the groundrules for the meetings with DOE/ONWI and their consultants. Areas of responsibility were assigned to various teams formed for different sites. Each team member was to concentrate on certain kinds of tests. The test matrix planned for review for a given site or set of sites included the following:

1. Physical - Index Properties  
(RQD, RMR, Classification, Density, Moisture Content, Porosity, etc.)
2. Laboratory Strength  
(Unconfined Compression Tensile, Triaxial, Young's Modulus, Poisson's Ratio, Shear Strength)
3. Thermal Properties  
(Conductivity, Diffusivity, Specific Heat, Expansion)
4. Creep Parameters
5. In-Situ Geotechnical  
(Geotec Drill Stem Tests, In-situ Stress, Goodman Jack, etc.)
6. Seismic  
(Surface Refraction, Uphole, Crosshole, Laboratory Sonic)
7. Sealant and Rock/Sealant Compatibility

The meetings with DOE/ONWI began at 8:30 a.m. on August 21, 1984. A series of presentations was made on the rock mechanics, thermal, and thermomechanical property data (see attached agenda). Limited discussions were allowed on the material presented. A copy of the viewgraphs from each presentation was provided at the end of the first day of meetings.

The remainder of the meeting (August 22-24) was devoted to the review of raw laboratory and field data by the NRC staff and consultants. NRC's "Rock Mechanics Data Review Checklists" were filled out for each major test or series of tests based on the review performed.

A number of ONWI personnel and consultants were available on August 22 to answer specific questions on their data. ONWI personnel were also available throughout the meeting to assist in the location of certain reports and data through their data management system.

On the final day of the meeting, minutes were prepared by the NRC staff with input from consultants. These minutes were then read by and agreed to by DOE in a debriefing meeting that took place between NRC and DOE.

# AGENDA

## ROCK MECHANICS DATA PRESENTATION TO NRC

[Project Management Center (PMC) Room 13-4-160]

August 21, 1984

9:00 - 9:30	DOE	Introduction	JA Sherwin (SRPO)
9:30 - 10:15	NRC	Introduction	R Johnson/J Pearing
10:15 - 10:45	ONWI	Rock Mechanics Introduction	HR Hume/S Versluis
10:45 - 11:00		BREAK	
11:00 - 11:30	ONWI	Scope of Rock Mechanics Data Presentation	HR Hume/S Versluis
11:30 - 12:00	ONWI	Data Management	MG Golis/G LaRue
12:00 - 1:00		LUNCH	
1:00 - 1:30	LLNL	Thermal Properties	W Durham
1:30 - 2:00	RE/SPEC	Elevated Temperature/ Pressure Data	P Senseny
2:00 - 3:00		Site Characterization Data:	
	SWEC WCC ETC/ONWI	Permian Paradox Gulf (CWL-167)	TJ Lamb J O'Rourke HR Hume
3:00 - 3:15		BREAK	
3:15 - 4:00	ONWI	Off Site Underground Testing:	
		ASSE Mine Avery Island Mine	AJ Coyle AJ Coyle

AGENDA (cont'd).

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4:00

QUESTIONS

August 22, 1984

Review of Reports and Data Catalog

August 23, 1984

8:30 - 12:00 NRC

Completion of Review

1:00 - 3:00 NRC

Debriefing

August 24, 1984

8:30 - NRC

Optional