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OCT 23 1985

1

Mr. Roger Hart
 Itasca Consulting Group, Inc.
 P.O. Box 14806
 Minneapolis, MN 55414

Dear Mr. Hart:

The NRC requests that ITASCA perform the following work under Task Order 001 of the contract entitled "Technical Assistance for Design Reviews of High Level Waste Geologic Repositories" (NRC-02-85-002, FIN D1016).

Task 2 - ITASCA should review the following NNWSI documents:

1. Preliminary Characterization of the Petrologic, Bulk, and Mechanical Properties of a Lithophysal Zone within the Topopah Spring Member of the Paintbrush Tuff, R. H. Price, et. al., SAND84-0860, February, 1985.
2. A Comparative Study of Radioactive Waste Emplacement Configurations, H.F. Gram, et.al., SAND83-1884, September, 1985.

The first document stated above is the reference document which shows the results of lab tests on 12 inch diameter core samples of Lithophysal Topopah Spring Tuff which were collected on Busted Butte. Particular attention should be focused on the relationships (and the effects on the test plans of such relationships) that are made in the document such as effective porosity vs. Young's Modulus.

The second document contains an evaluation of the self shielded package and the vertical and horizontal waste emplacement methods. Your review should focus on the Rock Mechanics/Design aspects of this study.

The reviews of these documents should be performed by individuals familiar with the NNWSI program and should not exceed 3 person/days per document. The reviews should be submitted to the NRC within 30 days of your receipt of this letter.

WM-RES
 WM Record File
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WM Project *10, 11, 16*
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OCT 23 1985

2

The action taken by this letter is considered to be within the scope of the current contract NRC-02-85-002. No changes to costs or delivery of contracted products are authorized. Please notify me immediately if you believe this letter would result in changes to costs or delivery of contracted products. I can be reached on (301)-427-4649.

Sincerely,

151

David H. Tiktinsky
Engineering Branch
Division of Waste Management, NMSS

cc: B. Bromberg, NRC
J. Daemen, Univ. of Az.

OFC	:	WMEG	:	:	:	:	:	:	:
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