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23 June 1986

David Tiktinsky - SS623
U.S. Nuclear Regulatory Commission
Division of Waste Management
Washington, D.C. 20555

"NRC Technical Assistance
for Design Reviews"
Contract No. NRC-02-85-002
FIN D1016

Dear David:

I am sending this note to try to update the status of our BWIP document reviews. Four (4) document reviews are currently outstanding—for:

Barton, Nick. Final Report: Rock Mass Quality and Support Recommendations for Basalt at the Candidate Repository Horizon, Based on the Q-System. Rockwell Hanford Operations SD-BWI-ER-012 (Rev. 2). April 1986.

Palmer, R. A., R. G. Johnston, and M. I. Wood. "Determination of an Upper Temperature Limit for Bentonite as a Backfill Component in a Nuclear Waste Repository in Basalt," Rockwell Hanford Operations RHO-BW-ST-47P, February 1983.

Rockwell Hanford Operations. "A Preliminary Assessment of Water Inflow into Proposed Excavations in the Cohasset Flow Interior," SD-BWI-TI-274, June 1985.

Rockwell Hanford Operations. Rock Mechanics Data Package. SD-BWI-DP-041. April 1986.

These reviews will be submitted shortly.

In addition, we have received the following two (2) documents for review but have not yet received the authorization to review them:

8607110225 860623
PDR WMRES EECITAS
D-1016 PDR

WM-RES
WM Record File
D1016
ITasca

WM Project 10, 11, 16
Docket No. _____
PDR ✓
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St. John, C. M., and Kunsoo Kim. Geoengineering Design Parameters Workshop (Proceedings of a Workshop Held in Rapid City, South Dakota on June 25, 1985). SD-BWI-TI-299. January 1986.

Kim, K., S. Dischler, J. Aggson, and M. Hardy. "The State of In-Situ Stresses Determined by Hydraulic Fracturing at the Hanford Site," RHO-BW-ST-73P. 1986.

Based on our FEA review, the topics of ground support and the extent of the disturbed zone came up continually. I think it would be most worthwhile for us to review the report "Evaluation of Damaged Rock Zone Around Repository Openings" (by S. J. Mitchell, RHO Computational Brief No. 573, March 13, 1986), as it was used as a back-up reference of some importance in the FEA. In our discussions, it also came out strongly that NRC needs an independent analysis of the ground support design at BWIP as well as the extent of the disturbed zone. We would be interested in proposing a small study in this area as part of our present work.

If you have any questions regarding the status of the document reviews or the proposed work, please call.

Yours,

Mark Board

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