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19 March 1987

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:

During telephone conversations with Naiem Tanious on 17 March, it was agreed that the following documents related to the Waste Isolation Pilot Plant (WIPP) should be reviewed:

- (1) SAND81-2628 — Waste Isolation Pilot Plant (WIPP) Research and Development Program: In Situ Testing Plan, March 1982;
- (2) "Implementation of Thermal/Structural Interactions In Situ Tests at the Waste Isolation Pilot Plant Facility" — paper by Munson, Matalucci, and Torres presented at the 2nd International Conference on the Mechanical Behavior of Salt (Hannover, Federal Republic of Germany, 1984);
- (3) Sandia Draft Report, 1986 — "The Integrated In Situ Testing Program for the Waste Isolation Pilot Plant (WIPP) (Draft)" by Rudolph V. Matalucci;
- (4) SAND85-0807 — Pretest Reference Calculation for the 18-W/m<sup>2</sup> Mockup for Defense High-Level Waste (WIPP Room A In Situ Experiment (May 1985);
- (5) SAND85-0213 — Pretest Reference Calculation for the Overtest for Simulated Defense High Level Waste (WIPP Room B In Situ Experiment (April 1985);
- (6) SAND85-0893 — Pretest Reference Calculation for the 6.1 Meter (20 ft) Wide Drifts of the Geomechanical Evaluation (WIPP Room G In Situ Experiment) (June 1985);

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19 March 1987  
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- (7) SAND85-2429 — Numerical Simulation of the Creep Response of Model Salt Pillars;
- (8) "Comparison Between Predicted and Measured South Drift Closures at the WIPP Using a Transient Creep Model for Salt (by Munson and Fossum)", Rock Mechanics: Key to Energy Production (Proceedings of the 27th U.S. Symposium on Rock Mechanics, University of Alabama, June 1986), pp. 931-939. (Littleton, Colorado: Society of Mining Engineers, Inc., 1986);
- (9) "Early Results from the Thermal/Structural In Situ Test Series at the WIPP (by Munson, Torres and Blankenship)", Rock Mechanics: Key to Energy Production (Proceedings of the 27th U.S. Symposium on Rock Mechanics, University of Alabama, June 1986), pp. 923-930. (Littleton, Colorado: Society of Mining Engineers, Inc., 1986); and
- (10) SAND85-0324 — Methodology for Performing Parallel Design Calculations (Nuclear Waste Repository Application) (May 1986);

We agreed that three days would be required for the review of each document, except for the first three (which would require one day each). Because all documents are closely related, we concurred that the reviews should be presented collectively in a summary review document.

If you have any questions, or if anything is unclear, please contact us.

Sincerely,



Loren J. Lorig

cc: N. Tanious  
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