

See Packet 2 for incl.

NUCLEAR WASTE CONSULTANTS INC.

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July 21, 1986

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RS-NMS-85-009

Communication No. 78

U.S. Nuclear Regulatory Commission  
Division of Waste Management  
Geotechnical Branch  
MS-623-SS  
Washington, DC 20555

Attention: Mr. Jeff Pohle, Project Officer  
Technical Assistance in Hydrogeology - Project B (RS-NMS-85-009)

Re: BWIP Numerical and Analytical Evaluations of Conceptual Models - Subtask  
2.5, Report No. 1

Dear Mr. Pohle:

This cover letter transmits to the NRC staff the first report on numerical and analytical evaluations of aspects of conceptual models for BWIP, Subtask 2.5 of Contract No. RS-NMS-85-009. This report has been prepared by the Messrs. F. Marinelli and M. Logsdon and Ms. B. Basse and reviewed and revised by Mr. Adrian Brown and Dr. Catherine Kraeger-Rovey, all members of the Terra Therma/Nuclear Waste Consultants site team for BWIP. The report has received management and initial technical reviews by Adrian Brown and Mark Logsdon of Nuclear Waste Consultants. These mini-reports are being submitted for additional technical quality-assurance review by members of the NWC Technical Pool simultaneously with their submission to you, per the approach described in the draft QA plan that has been submitted to the staff for review and comment. NWC considers that this is an appropriate approach, since the current contract requires semi-annual updates of these reports. Copies of the outside reviews will be submitted in their entirety, along with the response/revision documents that are produced to address any review.

As anticipated in the April 14-15, 1986 meeting in Silver Spring and described in the subsequent trip report on that meeting (NWC Communication No. 49), the initial set of problems addressed by TTI/NWC include:

1. Analysis of Flow Interior Heterogeneity: Ground Water Travel Time (Mini-Report No. 1).
2. Analysis of Flow Interior Heterogeneity: Cumulative Flux (Mini-Report No. 2).
3. Evaluation of Residual Thermal Effects (Mini-Report No. 3).
4. Relationship of Hydrodynamic Dispersion to Compliance with Overall EPA Release Standards (Mini-Report No. 4).
5. Analysis of Drilling Response at the Hanford Site (Mini-Report No. 5).

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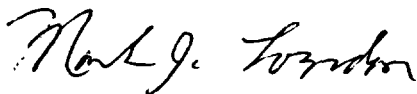
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TTI/NWC anticipates that these products - and the performance assessment approach on which they are based - will evolve with the project. Updates of these and subsequent analyses will be submitted to the NRC in the semi-annual documents that are stipulated in the current contract. As discussed above, technical review comments will be included in the updates, as appropriate.

The submission of this letter report meets the contractual deliverable for Subtask 2.5 of Contract Number RS-NMS-85-009 and completes the subtask requirements for Numerical Evaluations of Conceptual Models for BWIP at this time. Per the terms of the contract, TTI/NWC will submit regular updates of this report.

If you have any questions concerning this report or related matters, please contact me immediately.

Respectfully submitted,  
NUCLEAR WASTE CONSULTANTS, INC.



Mark J. Logsdon, Project Manager

Att: BWIP Numerical Evaluations, Subtask 2.5 - Mini-Reports 1-5

cc: US NRC - Director, NMSS (ATTN: PSB)  
DWM (ATTN: Division Director) - 2  
Mary Little, Contract Administrator  
WMGT (ATTN: Branch Chief)

L. Davis, WWL  
R. Knowlton, DBS

bc: M. Galloway, TTI