

NUCLEAR WASTE CONSULTANTS INC.

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October 31, 1986

009/2.4/TTI.002
RS-NMS-85-009
Communication No. 108

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: Semi-Annual Update of BWIP Conceptual Model Report

Dear Mr. Pohle:

This cover letter transmits to the NRC staff Terra Therma Inc.'s (TTI) semi-annual update of the BWIP Conceptual Model Evaluation Report (Subtask 2.4). The report has received a management and technical review by M. Logsdon of Nuclear Waste Consultants.

Since the data base for the BWIP site has not materially changed in the last six months, there has been no new developments in the overall conceptual model for the site. Thus, the report is directed at summarizing new TTI analyses and interpretations in the areas of parametric information (particularly with respect to the use of geometric means of small-scale tests to represent areally distributed transmissivity), response information (particularly interpretations of pre-emplacement hydraulic gradients), and post-emplacement stimuli (specifically the thermal impacts of waste emplacement on flow-direction analysis). The update report includes status report on TTI/NWC mini-reports under Subtask 2.5.

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Distribution:

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Submission of this update report completes the contract deliverable for Subtask 2.4 at this time. TTI/NWC will update the Conceptual Model Evaluation Report on a semi-annual basis, as directed in the current contract.

If you have any questions concerning this letter or the attached report, please contact me immediately.

Respectfully submitted,
NUCLEAR WASTE CONSULTANTS, INC.



Mark J. Logsdon, Project Manager

Att: BWIP Conceptual Model Evaluation Update, Subtask 2.4

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

L. Davis, WWL
J. Minier, DBS

bc: M. Galloway, TTI

Nuclear Waste Consultants, Inc.



TERRA THERMA, INC.

WATER CONSULTANTS AND ENGINEERS

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(303) 973-7492

October 30, 1986

Nuclear Waste Consultants
8341 S. Sangre de Cristo Road
Littleton, Colorado 80127

Att: Mark Logsdon, Project Manager

Re: Conceptual Model Update, Subtask 2.4

Dear Mr. Logsdon:

The attached document constitutes the letter report required in our subcontract to Nuclear Waste Consultants for the update of Subtask 2.4, Conceptual Model Update. Modification or support of certain items discussed in the previous Conceptual Model report has been the result of ongoing analyses under Subtask 2.5. A complete list of mini-reports prepared to date or in draft form are identified in this document. The conclusions of mini-reports which have had a direct bearing on the update of the conceptual model have been summarized.

If we can provide any additional information or clarification, please do not hesitate to call us.

Sincerely,
TERRA THERMA, INC.

Michael Galloway
Project Manager