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PDR
LPDR - WM-10(2)
WM-11(2)
WM-16(2)

NUCLEAR WASTE CONSULTANTS INC.

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FEB 12 AIO 59

February 5, 1987

009/3.5/DBS.002
RS-NMS-85-009
Communication No. 135

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 SALT Numerical Evaluations Report

Dear Mr. Pohle:

This cover letter transmits to the NRC staff Daniel B. Stephens and Associates (DBS) semi-annual update of the Numerical Evaluation of Conceptual Models Report for Salt (Subtask 3.5). The report has received a management and technical review by M. Logsdon of Nuclear Waste Consultants. The reports have been completed under DBS's quality assurance procedures in compliance with NWC's project-specific QA Plan.

The update report includes two new "mini-reports":

- o DBS Mini-Report #6: Analysis of Thermal Convection of Ground Water Induced by Radiogenic Heating with the Waste Repository.
- o DBS Mini-Report #8: Analysis of the Importance of Diffusion of Radionuclides Within the Proposed Repository Host Horizon.

Attachments in packet #5

WM-RES
WM Record File
D1021
NWC I

WM Project 10, 11, 16
Docket No. _____

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X LPDR ✓ (E, N, S)

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Distribution:
x Pohle

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In addition to these completed reports, DBS has two additional reports in progress, dealing with the following topics:

- o DBS Report #7, dealing with the sensitivity of hydraulic conditions at the Deaf Smith site to recharge in New Mexico;
- o DBS Report #9, dealing with the importance of aquitard diffusion of radionuclides during horizontal groundwater flow.

DBS anticipates completing these reports and submitting them to the NRC Staff within the next few months, without waiting for another formal update document.

Submission of this update report completes the contract deliverable for Subtask 3.5 at this time. DBS will update the Numerical Evaluation of Conceptual Models Report on a semi-annual basis, as directed in the current contract.

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

Respectfully submitted,
NUCLEAR WASTE CONSULTANTS, INC.



Mark J. Logsdon, Project Manager

Att: Salt Numerical Evaluations of Conceptual Models Report Update

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

L. Davis, WWL
M. Galloway, TTI

bc: J. Minier, DBS