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NUCLEAR WASTE CONSULTANTS INC.

LPDR B, N, S

8341 So. Sangre de Cristo Rd., Suite 6
Littleton, Colorado 80127
(303) 973-7495

Distribution:
F. Pohle

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August 27, 1986

009/PM/NWC.005
RS-NMS-85-009
Communication No. 92

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: **SUMMARY OF FY86 ACTIVITIES**

Dear Mr. Pohle:

Per our telephone conversation of today, please find attached a set of lists that outlines the major products of Contract No. RS-NMS-85-009 from October, 1985 - September, 1986. You will note that this is the 92nd written communication from NWC to you; the following lists include only the major technical and project management products from that more inclusive list.

I hope that the lists are helpful to your year-end record keeping. If you have any questions, please contact me.

Respectfully submitted,
NUCLEAR WASTE CONSULTANTS

Mark J. Logsdon

Mark J. Logsdon, Project Manager

Att: Summary lists of major contract products, FY 1986

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

M. Galloway, TTI
L. Davis, WWL
J. Minier, DBS

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SUMMARY OF CONTRACT PRODUCTS, RS-NMS-85-009, FY 86I. GENERAL/PROJECT MANAGEMENT

- o 2 contractor/staff meetings in Silver Spring: 10/85; 4/86
- o Reviews of Draft GTP on GWTT
- o Review of Draft GTP on Disturbed Zone
- o Response to FOIA request
- o 3 contract modifications
- o Review of DOE (NNWSI) Issues Hierarchy paper
- o Initiation of computing capabilities at INEL
- o Participation in SWIFT II training in Silver Spring
- o Participation in RES symposium on model validation in Bethesda
- o Reviews of DEA's, FEA's and NRC Staff's comments on FEA
- o Review of Hydrology chapter of NUREG/CR-3964 "Techniques for Determining Probabilities of Events and Processes Affecting Performance of Geologic Repositories"
- o Review of proposed revisions to 10 CFR Part 60
- o Review of compliance aspects of the EPA Individual and Groundwater Protection Standards
- o Development and Documentation of Project-Specific QA Plan
- o Reviews of W&A papers on uncertainty and GWTT

II. TASK 1 - NNWSI

- o Subtask 1.1 - NNWSI Bibliography and Site Familiarization Report
- o Subtask 1.2 - NNWSI Data Inventory and Management System, including semi-annual update report
- o Subtask 1.3 - Major, Formal Document Reviews
 - Conceptual Models of Flow in Unsaturated Zone, USGS
 - Hydrologic Mechanisms Governing Fluid Flow in Partially Saturated, Fractured, Porous Tuff at Yucca Mountain, Sandia
 - Effects of Percolation on Water-Travel Time in Deep, Partially Saturated Zones, Sandia
 - Fluid Flow in Fractured Rock Mass, Sandia
 - Preliminary Bounds on Expected Post-Closure Performance of Yucca Mountain Repository Site, Southern Nevada, Sandia
- o Subtask 1.4 - NNWSI Conceptual Model Evaluations Report
- o Subtask 1.5 - NNWSI Numerical Evaluations Mini-Reports
 - Theoretical Description of Steady, Downward Flow in Layered, Fractured, Unsaturated, Porous Media

- Groundwater Travel Time at Yucca Mountain, Nevada
- Estimates of Cumulative Radionuclide Flux at Yucca Mountain, Nevada

III. TASK 2 - BWIP

- o Subtask 2.1 - BWIP Bibliography and Site Familiarization Report
- o Subtask 2.2 - Data Inventory and Management System, including semi-annual update report
- o Subtask 2.3 - Major, Formal Document Reviews
 - Test Plan for LHS Testing, BWIP
 - HEDCO, BWIP
 - Exploratory Shaft Test Plan, BWIP
 - PORFLO, BWIP
 - GWTT for Reference Repository Location at Hanford Site, BWIP
- o Subtask 2.3 - 2 Hydrology Workshops at Hanford - 12/85; 9/86
- o Subtask 2.4 - BWIP Conceptual Model Evaluations Report
- o Subtask 2.5 - BWIP Numerical Evaluations Mini-Reports
 - Analysis of Flow Interior Heterogeneities - GWTT
 - Analysis of Flow Interior Heterogeneities - Cumulative Flux
 - Evaluation of Residual Thermal Effects
 - Relationship of Hydrodynamic Dispersion to Compliance with Overall EPA Release Standards
 - Analysis of Drilling Responses at the Hanford Site

IV. TASK 3 - SALT

- o Subtask 3.1 - SALT Bibliography and Site Familiarization Report
- o Subtask 3.2 - SALT Data Inventory and Management System, including semi-annual update report
- o Subtask 3.3 - Major, Formal Document Reviews
 - Travel Path/Travel Time Uncertainties at Salt Sites, ONWI
 - PTRACK, ONWI
 - NUREG/CR-3964, Sandia
- o Subtask 3.4 - SALT Conceptual Model Evaluations Report
- o Subtask 3.5 - SALT Numerical Evaluations Mini-Reports
 - Analysis of Potential for Unsaturated Flow within Evaporite Aquitard
 - Transport in Salt by Vertical Porous Media Flow
 - Transport Through Interbeds in HSU B by Horizontal Porous Media Flow

- Transport Through the Wolfcamp by Horizontal Porous Media Flow
- Analysis of Potential for Geothermally-Induced Groundwater Convection within the Evaporite Aquitard
- o Subtask 3.5 - Palo Duro Canyon Field Trip: DBS/NWC