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ENGINEERS INTERNATIONAL, INC.

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21 May 1986
Ref. No. 1148-07
Project Letter No. 069

Waste Management Engineering Branch
Division of Waste Management
U.S. Nuclear Regulatory Commission
7915 Eastern Avenue
Silver Spring, MD 20910

Attention: Mr. John T. Buckley, Project Officer, Mail Stop 623-SS

Subject: Contract No. NRC-02-84-002
"Technical Assistance for In Situ Testing"
EI Project No. 1148
Letter Progress Report Covering the Period of
01 May 1985 through 30 April 1986

Dear Mr. Buckley:

Enclosed is one copy of the subject report as required by the contract.
As required, the following persons are being sent copies:

- Office of the Director, NMSS
- Director, Division of Waste Management
- Contracting Officer
- Chief, High-Level Waste Technical Development Branch.

Should you have any questions, please do not hesitate to contact us.

Sincerely,

ENGINEERS INTERNATIONAL, INC.

Madan M. Singh
Project Manager

WM RES
WM Record File
D-1004
EI

WM Project 10, 11, 16
Docket No. _____
* PDR ✓
LPDR B, N, S

Distribution:

Buckley

(Return to WM 623-SS)bt

Enclosure

cc: Office of the Director, NMSS (Attn: Program Support Branch) - 1
Director, Division of Waste Management - 2
Contracting Officer - 1
High-Level Waste Technical Dev. Branch (Attn: Branch Chief) - 1

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ENGINEERS INTERNATIONAL, INC.

EI Project No. 1148

NRC Contract No. NRC-02-84-002

TECHNICAL ASSISTANCE FOR IN SITU TESTING

Monthly Report - 01 May 1985 through 30 April 1986

1.0 INTRODUCTION

This report covers the activities of Engineers International, Inc. (EI) during the period of 01 May 1985 through 30 April 1986. Professional personnel involved are Dr. Madan M. Singh and Messrs. Robert A. Cummings, Swapn Bhattacharya, and Charles H. Baker.

By mutual agreement of the NRC Project Officer and the EI Project Engineer, reports are not submitted on a monthly basis during periods when no Task Orders are active.

2.0 PROJECT OBJECTIVE

This contract is intended to provide technical assistance to the NRC in reviewing plans and procedures for in situ testing that may be carried out in support of siting and design of a geologic HLW repository. Assistance is to be focused on underground stress, geotechnical instrumentation of test areas, rock mass strength, hydrological instrumentation of test areas, thermomechanical effects, excavation methods, and quality assurance for bulk measurements of geologic properties, as these relate to in situ testing.

Ultimately, these efforts are to aid the NRC in its responsibility for ensuring the proper siting, design, construction, operating, and decommissioning of geologic HLW disposal facilities such that the EPA limits for radionuclide release will not be exceeded.

3.0 ACTIVITIES DURING THE REPORTING PERIOD

3.1 Summary of Activities

Task Order 001. Task Order 001 has been completed.

Task Order 002. Task Order 002 has been completed.

Task order 003. Task Order 003 has been completed.

Task Order 004. Task Order 004 has been completed.

Task Order 005. Task Order 005 has been completed.

Task Order 006. Task Order 006 has been completed.

Task Order 007. Task Order 007 was reactivated.

Messrs. Robert A. Cummings and Charles H. Baker attended the meeting held from 01 April to 03 April 1986 in Silver Spring, MD, to review planning activity for the DOE FEA and SCP submittals for a geologic repository in salt. Comments on the EA were submitted by Telecopier (facsimile) on 07 April, and the meeting report was submitted by letter on 10 April. Note that Mr. Cummings' travel expense report, which should have been submitted with the meeting report, was sent late. A duplicate copy is attached to this report for information purposes. Background documents and the draft EA were also reviewed as part of this effort.

3.2 Results

All work requested to date under the contract has been completed.

4.0 DIFFICULTIES

No difficulties are presently identified.

5.0 ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Salt

The review of background documents and NRC comments on the draft EA will continue. The final EA will be reviewed when issued. Messrs. Cummings and Baker will attend the NRC meeting in Silver Spring, MD, to review the final EA.

NNWSI

Mr. S. Bhattacharya will attend a meeting in Silver Spring, MD, to review the final EA when issued.

BWIP

Background documents will be reviewed. Mr. Amitabha Mukherjee will review the final EA and attend a meeting in Silver Spring, MD to review the final EA when issued.

6.0 MEETINGS/TRIPS DURING THE REPORTING PERIOD

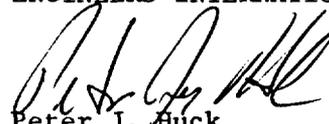
See Section 3.1 above.

7.0 SCHEDULE AND COST PROJECTIONS

The cost summaries to 30 April 1986, broken down by Task Order, are attached. The costs to date, and the cost projections for the next month, are also attached.

Respectfully submitted,

ENGINEERS INTERNATIONAL, INC.



Peter J. Huck
Project Engineer

PJH/bt

Attachments: 2

CONTRACT NO. NRC-02-84-002

PROJECT COSTS THROUGH APRIL 1986

<u>Task</u>	<u>Current Month</u>	<u>Cumulative to Date</u>			<u>Total To Date</u>	<u>Cost Projection to May 1985</u>	<u>Total Contract Limit</u>
		<u>FY 1984</u>	<u>FY 1985</u>	<u>FY 1986</u>			
003	- 0 -	\$88,050.59	\$8,505.23	- 0 -	\$96,555.82	- 0 -	\$100,274.00
004	- 0 -	\$65,896.26	\$3,275.74	- 0 -	\$69,172.00	- 0 -	\$109,702.00
005	- 0 -	\$58,486.72	- 0 -	- 0 -	\$58,486.72	- 0 -	\$ 64,952.00
007	\$9,026.86	- 0 -	\$3,031.89	\$9,026.86	\$12,058.75	\$16,700.00	\$240,658.00

ENGINEERS INTERNATIONAL, INC.

