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ENGINEERS INTERNATIONAL, INC.

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17 May 1985
Ref. No. 1148-007
Project Letter No. 066

WM-RES
WM Record File
D1004
EI

WM Project 10, 11, 16
Docket No. _____

PDR ✓
LPDR ✓ (B, NS)

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

Distribution:
Buckley X
3-111 X
(Return to WM, 623-SS) *af*

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

Subject: Contract No. NRC-02-84-002
EI Project No. 1148
"Technical Assistance for In Situ Testing"
Letter Progress Report Covering the Period of
30 September 1984 to 30 April 1985

Dear Mr. Buckley:

Enclosed is one (1) 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.

Robert Cummings

Robert A. Cummings
Project Engineer

RAC/bt

Enclosure

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PDR WMRES EECENGI
D-1004 PDR

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

ENGINEERS INTERNATIONAL, INC.

EI Project No. 1148

NRC Contract No. NRC-02-84-002

TECHNICAL ASSISTANCE FOR IN SITU TESTING

Monthly Report - 30 September 1984 to 30 April 1985

1.0 INTRODUCTION

This report covers the activities of Engineers International, Inc. (EI) during the period of 30 September 1984 through 30 April 1985. Professional personnel involved are Mr. Robert A. Cummings and Dr. V. Rajaram.

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 was officially completed on 31 October 1984. Effort during the month of October was chiefly administrative. Invoiced amounts also reflect charges incurred earlier.

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. A request for proposal on Task Order 007 was received by EI on 26 November 1984. EI responded with its cost proposal on 29 November 1984.

No further activity occurred on EI's part in connection with Task Order 007 until April 1985, when EI received a request from the Project Officer to provide a senior level mining engineer for a meeting in Silver Spring dealing with performance allocation and conceptual design methodology for the SCP. Written confirmation of the request, dated 17 April 1985, was received by EI on 22 April 1985.

The meeting was held on 17-18 April 1985 and was attended by Dr. V. Rajaram of EI. The meeting addressed the extent of DOE's consideration of the conceptual design in the SCP and the scope of the NRC review of same. A trip report was sent directly to the Project Officer by Dr. Rajaram on 02 May 1985.

Task Order 007 is still in the process of becoming definitized.

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

No further work requests have been received. Document review and meeting attendance activities can be expected to begin at some point following Task Order 007 definitization.

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 1985 and 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.

Robert A. Cummings

Robert A. Cummings
Project Engineer

RAC/bt

CONTRACT NO. NRC-02-84-002

PROJECT COSTS THROUGH APRIL 1985

Page 4 of 4 Pages

TASK	CURRENT MONTH	CUMULATIVE TO DATE		TOTAL TO DATE	COST PROJECTIONS	TOTAL CONTRACT LIMIT
		FY 84	FY 85		1985 MAY	
Order 003						100,274.00
I	- 0 -	88,050.59	8,505.23	96,555.82	- 0 -	
II	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	
Order 004						109,702.00
I	- 0 -	65,896.26	3,275.74	69,172.00	- 0 -	
II	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	
Order 005						64,952.00
I	- 0 -	58,486.72	- 0 -	58,486.72	- 0 -	
II	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	
Order 007*	3,031.89	- 0 -	3,031.89	3,031.89	- 0 -	234,979.00

*Task Order not definitized as of 30 April 1985. Thus the costs reported are tentative.

ENGINEERS INTERNATIONAL, INC.