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ENGINEERS INTERNATIONAL, INC.

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4 November 1988
Ref. No. 1148-07-16
Project Letter No. 141

Waste Management Engineering Branch
Division of Waste Management
U. S. Nuclear Regulatory Commission
Mail Stop 4-H-3
Washington, DC 20555

Attention: Mr. John T. Buckley, Project Officer

Subject: Contract No. NRC-02-84-002
"Technical Assistance for In Situ Testing"
EI Project No. 1148
Monthly Progress Report Covering the Period of
01 October through 31 October 1988

Dear Mr. Buckley:

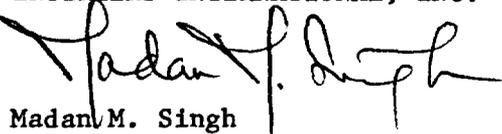
Enclosed is one copy of the subject report as required by the contract. As required, the following persons are being sent copies:

- 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

MMS/pjh

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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EI Project No. 1148
NRC Contract No. NRC-02-84-002

TECHNICAL ASSISTANCE FOR IN SITU TESTING
Monthly Report - 01 October through 31 October 1988

1.0 INTRODUCTION

This report covers the activities of Engineers International, Inc. (EI) during the period of 01 October through 31 October 1988. Professional personnel active during the reporting period included Dr. Madan M. Singh and Messrs. Robert A. Cummings, Peter Jay Huck, Anthony W. Laurito, and Larry A. Salhaney.

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. The CD-CDR Draft Report was submitted.



Task Order 008. Task Order 008 has been completed.

Task Order 009 Draft reports were submitted for subtasks 04 (ventilation analyses) and 05 (ES construction specs). Work is continuing on the subtask 01 (level of retrieval demonstrations) draft report which will be delayed until the latter part of November.

4.0 DIFFICULTIES

Staff effort was concentrated on subtasks 04 and 05, which EI understands are more urgently needed, causing the delay in completion of subtask 01.

5.0 ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Task Order 009 The subtask 01 draft report will be completed. All draft reports will be reviewed and draft report meetings will be scheduled.

6.0 MEETINGS/TRIPS DURING THE REPORTING PERIOD

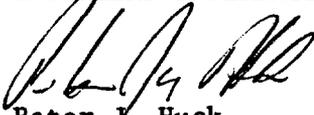
None

7.0 SCHEDULE AND COST PROJECTIONS

The cost summaries to 21 October 1988, broken down by Task Order are attached. The costs to date, and cost projections for the ensuing month are also attached.

Respectfully submitted,

ENGINEERS INTERNATIONAL, INC.


Peter J. Huck
Project Engineer

PJH/ds
Attachments



CONTRACT NO. NRC-02-84-002

PROJECT COSTS THROUGH 21 October 1988

Task	Current Month	FY 1984	FY 1985	Cumulative To Date			Total To Date	Cost Projection for November 1988	Total Contract Limit
				FY 1986	FY 1987	FY 1988			
001	- 0 -	\$3,281.00	- 0 -	- 0 -	- 0 -	- 0 -	\$3,281.00	- 0 -	\$ 3,281.00
002	- 0 -	\$1,392.57	- 0 -	- 0 -	- 0 -	- 0 -	\$1,393.57	- 0 -	\$ 1,393.00
003	- 0 -	\$88,050.59	\$8,505.23	- 0 -	- 0 -	- 0 -	\$96,555.82	- 0 -	\$ 99,060.77
004	- 0 -	\$65,896.26	\$3,275.74	- 0 -	- 0 -	- 0 -	\$69,172.00	- 0 -	\$ 72,834.36
005	- 0 -	\$58,486.72	- 0 -	- 0 -	- 0 -	- 0 -	\$58,486.72	- 0 -	\$ 59,948.89
006	- 0 -	\$3,000.94	- 0 -	- 0 -	- 0 -	- 0 -	\$3,000.94	- 0 -	\$ 3,075.96
007	- 0 -	- 0 -	\$3,436.74	\$62,381.23	\$35,466.28	\$68,589.50	\$169,874.05	- 0 -	\$ 180,645.00
008	- 0 -	- 0 -	- 0 -	\$11,135.21	\$40,514.79	- 0 -	\$51,710.00	- 0 -	\$ 51,710.10
009	\$ 19,605.39	- 0 -	- 0 -	- 0 -	- 0 -	\$65,793.11	\$65,793.11	\$24,000.00	\$ 126,223.50

ENGINEERS INTERNATIONAL, INC.