



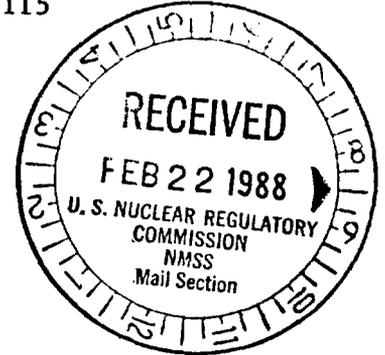
98 East Naperville Road  
Westmont, IL 60559-1595

**ENGINEERS INTERNATIONAL, INC.**

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16 February 1988  
Ref. No. 1148-07-16  
Project Letter No. 115

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 January through 31 January 1988

Dear Mr. Buckley:

Enclosed is one copy of the subject report as required by the contract. As required, the following persons are being set 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/ds

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 January through 31 January 1988

## 1.0 INTRODUCTION

This report covers the activities of Engineers International, Inc. (EI) during the period of 01 January through 31 January 1988. Professional personnel active during the reporting period included Messrs. Robert A. Cummings, Mr. Anthony W. Laurito and Mr. Peter J. Huck.

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, thermo-mechanical 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.

When it became obvious that the salt repository would be deferred, Mr. R.A. Cummings documented progress to date on the 60% design review for the Deaf Smith ES facility for archive. The remainder of Mr. Cumming's time was spent planning for the Tuff SCP review and topical papers.

Mr. A.W. Laurito attended the Nuclear Repository sessions of the AIME Annual Meeting in Phoenix, AZ, in conjunction with presentation of a paper by Tanious, Laurito, Tiktinski and Buckley on Planning Ventilation for Underground Nuclear Repository.

Task Order 008.

Task Order 008 has been completed.

4.0 DIFFICULTIES

None.

5.0 ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Task Order 007

It is anticipated that Messrs. Cummings, Huck, Laurito and Salhaney will be involved in review of the Tuff CDR, and possible topical papers.

Task Order 008

None.

6.0 MEETINGS/TRIPS DURING THE REPORTING PERIOD

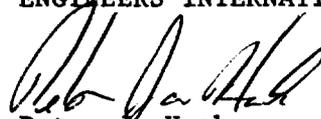
None.

7.0 SCHEDULE AND COST PROJECTIONS

The cost summaries to 22 January 1988, broken down by Task Order are attached. The costs to date, and cost projections for the following month are also attached.

Respectfully submitted,

ENGINEERS INTERNATIONAL, INC.

  
Peter J. Huck  
Project Engineer

PJH/ds  
Attachments  
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ENGINEERS INTERNATIONAL, INC.

CONTRACT NO. NRC-02-84-002

PROJECT COSTS THROUGH 22 JANUARY 1988

<u>Task</u>	<u>Current Month</u>	<u>FY 1984</u>	<u>FY 1985</u>	<u>Cumulative To Date</u>			<u>Total To Date</u>	<u>Cost Projection for Nov. 1987</u>	<u>Total Contract Limit</u>
				<u>FY 1986</u>	<u>FY 1987</u>	<u>FY 1988</u>			
003	- 0 -	\$88,050.59	\$8,505.23	- 0 -	- 0 -	- 0 -	\$96,555.82	- 0 -	\$100,274.00
004	- 0 -	\$65,896.26	\$3,275.74	- 0 -	- 0 -	- 0 -	\$69,172.00	- 0 -	\$109,702.00
005	- 0 -	\$58,486.72	- 0 -	- 0 -	- 0 -	- 0 -	\$58,486.72	- 0 -	\$ 64,952.00
007	\$1,173.93	- 0 -	\$3,436.74	\$62,381.23	\$35,466.28	\$10,096.78	\$111,381.03	- 0 -	\$240,658.00
008	- 0 -	- 0 -	- 0 -	\$11,135.21	\$40,514.79	- 0 -	\$51,710.00	- 0 -	\$ 51,710.00

ENGINEERS INTERNATIONAL, INC.