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ENGINEERS INTERNATIONAL, INC.

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04 December 1986
Ref. No. 1148-008-03

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

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

Subject: Contract No. NRC-02-84-002, Task Order 008

Dear Mr. Buckley:

To confirm the conversation of 03 December 1986, between you and Mr. Peter Huck of EI, this is to alert you to anticipated delays in completion of Task Order 008 of the subject contract. As you are aware, this effort encompasses three subtasks:

Subtask 01 is a review of mining experience in the vicinity of Yucca Mountain,

Subtask 02 is a ventilation modeling effort for the NNWSI project, and

Subtask 03 is preparation of a point paper on shaft and borehole sealing.

Subtask 01 - Yucca Mtn. mining experience has been delayed due to difficulty in contacting operating mines. Many of the candidate mines appear to be presently inactive due to the depressed condition of the mining industry. We have had to rely upon mail contacts since a number of the operating offices appear to be closed temporarily, and we have yet to receive all the information we need. In order to accelerate the completion of this task we have recently assigned Mr. Anthony W. Laurito, Senior Mining Engineer at EI, to assist Mr. Swapan Bhattacharya. We believe that NRC has a copy of Mr. Laurito's biography, but we are including an updated copy in the event that it is needed.

Subtask 02 - Ventilation Modeling of the NNWSI Repository is proceeding near schedule. We anticipate delivery of a draft report by 19 December. The meeting in Silver Spring to present the results of this subtask may be scheduled for 06 January 1987. Messrs. Laurito and Huck will attend and plan to stay over if necessary to install VNET and CLMSIM on the NRC microcomputer.

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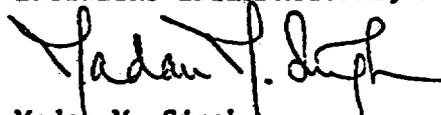
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Subtask 03 has been delayed due to a couple of reasons; Amitabha Mukherjee started working on it as soon as it was authorized, but then left EI to pursue higher studies at Columbia University. Mr. Huck has picked up the work, but the grouting efficiency report which would provide critical input was in review by the Bureau of Mines/NRC and was not returned to EI until the middle of October. Corrections are still being incorporated therein. Some of the other input documents did not come in on time. We now expect the draft report to be ready by the beginning of next month.

Engineers International, Inc. apologizes for the delay in completing these subtasks, and regrets any inconvenience that may be caused.

Sincerely,

ENGINEERS INTERNATIONAL, INC.



Madan M. Singh
Project Manager

MMS/PJH/ja

Enclosure

ANTHONY W. LAURITO
Senior Mining Engineer

Mr. Laurito has a broad background in ventilation, dust control, underground and surface mining. He has been involved in several projects pertaining to the evaluation of mining conditions ventilation modeling, computer analysis and the evaluation of dust control techniques.

EXPERIENCE

Mr. Laurito has collected geological and ventilation information for a project on improving ground control methods. This required the development of relationships between psychometric data and roof conditions. In addition, he has conducted an analysis of mining conditions for various multiple-seam mining operations. Mr. Laurito studied the interrelationship of parting thickness and ground control for several coal mines. He has conducted detailed ventilation surveys in underground mines and utilized these data to model the ventilation networks. Alternatives to increase airflows to working areas were simulated and assessed to determine the most cost effective alternative for each particular mining condition.

Mr. Laurito has also evaluated techniques to reduce respirable dust on longwall shearers in the laboratory as well as in the field. Mr. Laurito has designed and constructed a full-scale longwall laboratory facility and conducted tracer gas studies to evaluate several dust control techniques. In the field, he has installed and operated foam dust control systems and evaluated their performance with gravimetric and instantaneous dust monitors. He has also performed several detailed overburden analyses for mines in both the Powder River and Appalachian Coal Basins. For these projects he integrated overburden geochemical data with hydrological data and mining methods to determine the impact of postmining spoils on ground and surface water. Mr. Laurito supervised the construction of a weathering study test site and conducted the sampling of the plot area. He has collected ground water samples from wells and conducted field testing of the samples as required by the Office of Surface Mining.

EMPLOYMENT HISTORY

1980-Present: Engineers International, Inc., Westmont, IL

EDUCATION

BS (Mining Engineering) - The Pennsylvania State University,
University Park, PA 1980.

Certification for Mine Safety Training by MSHA for Surface and Underground, Coal, Metal and Non Metal Mining (1986).

PROFESSIONAL SOCIETIES

Society of Mining Engineers of AIME

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ENGINEERS INTERNATIONAL, INC.

CONTRACT NO. NRC-02-84-002

PROJECT COSTS THROUGH NOVEMBER 1986

<u>Task</u>	<u>Current Month</u>	<u>Cumulative to Date</u>			<u>Total To Date</u>	<u>Cost Projection for December 1986</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	\$ 646.46	- 0 -	\$3,436.74	\$69,895.61	\$73,332.35	\$ 1,000.00	\$240,658.00
008	\$7,588.67	- 0 -	- 0 -	\$25,220.86	\$25,220.86	\$ 6,000.00	\$ 51,710.00

ENGINEERS INTERNATIONAL, INC.