



United States Department of the Interior

BUREAU OF MINES
2401 E STREET, NW.
WASHINGTON, D.C. 20241

August 9, 1984

U.S. Nuclear Regulatory Commission
Division of Contracts
Washington, D.C. 20555

ATTN: Cindy Fleenor
Technical Assistance Contracts Branch

SUBJECT: Quarterly Progress Report - April - June 1984, Interagency Agreement
Number NRC-02-80-075, "Technical Assistance for Assessment of
Repository Siting and Design"

Dear Mrs. Fleenor:

Enclosed is our fifteenth quarterly progress report on the subject interagency
agreement for the period April 1, 1984, through June 30, 1984. This is in
accordance with Article 1, Number 3.1-Reporting Requirements.

Sincerely,

SIGNED

Earle B. Amey
Division of Health and
Safety Technology

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**Quarterly Progress Report
April - June 1984**

Progress

At the request of the Nuclear Regulatory Commission (NRC), Eugene Skinner from the Mine Development group of the Bureau of Mines' (BOM) Spokane Research Center reviewed 15 reports covering siting plans for salt repositories. Specific critical comments were forwarded in a June 25, 1984, memorandum. In general, all documents were well written and pertinent to the problems.

BOM Dust Control and Ventilation personnel at the Pittsburgh Research Center have submitted a draft copy of their report on "State-of-the-Art Feasibility Study of Large Diameter Horizontal Waste Emplacement Holes" for review to NRC and the Bureau's Spokane Research Center. In addition, an RFP entitled, "Grouting Efficiency in Vertical Shafts," has been prepared and funds committed for a firm fixed price contract to look into case histories in the mining industry where liners and grout were used in shafts and where problems occurred due to voids in grout placement.

Personnel from the Ground Control group at the BOM's Denver Research Center completed reviews of repository design issues for the Salt Repository Project and Nuclear Waste Investigations.

Travel

On May 23 and 24, Lindsay Mundell from the Denver Research Center attended NRC meetings in Silver Spring, Maryland to discuss repository design criteria and Nevada test site key document selection.

Quarterly Progress Report
April - June 1984

2

Future Work

Future work under this interagency agreement has changed focus with the completion of assessing the state-of-the-art of large diameter horizontal nuclear waste emplacement holes. The new emphasis will concern the environmental assessment/review work required for mine potentially acceptable sites (1 from BWIP, 1 from NNWSI, and 7 for Salt) for first geologic repository for high-level waste as received from DOE. The EA's are tentatively scheduled to be received by NRC on August 1, 1984, with a review work session following shortly thereafter.

Financial Status

The following summary of expenditures is provided for the period covering April 1 through June 30, 1984:

<u>Cost Component</u>	<u>Current Obligations</u>	<u>Cummulative Expenditures from Start of Agreement</u>
Personnel	\$86,948*	\$217,269
Travel	2,156	11,733
Transportation	-0-	306
Other (assessment for Bureau Admin. Sys.)	-0-	82,500
	<u>\$89,104</u>	<u>\$311,808</u>

Balance remaining: \$478,192

*The majority of personnel costs is a result of the major research task concerning the assessment of the state-of-the-art of large diameter horizontal nuclear waste emplacement holes.

Distribution:

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