



**Golder Associates**  
CONSULTING GEOTECHNICAL AND MINING ENGINEERS

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LPDR(B,N,S)

January 17, 1983

Our ref: G/83/006  
813-1162-1167

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

Attention: Raymond Gustave

Subject: Contract No. NRC-02-81-037  
Technical Assistance for Repository Design  
December Progress Report - Letter #82

Dear Sir:

Golder Associates is pleased to submit this progress report on the subject contract. Below is a breakdown by task of work performed, including personnel time and expenditures, from November 28, 1982 through January 1, 1983, as well as cumulative costs to date and projected costs for the remainder of the project. All costs are summarized in Table 1. Please note that costs shown in Table 1 are based on the accounting method and G&A and overhead rates given in the original contract. These costs will be modified upon approval of our proposed modification (reference your letter of October 13, 1982 and our letter #72). We look forward to a resolution of this issue this month.

TASK 1

Work has been completed on this task.

TASK 2

Work Performed Through January 1, 1983

Final approval of the Task 2 report was received from the NRC. The appropriate number of copies of the final Task 2 report (2 volumes) and a completed and signed NRC Form 426A were then transmitted to the NRC. Work has now been completed on this task.

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TASK 3

Work has been completed on this task.

TASK 4

Work has been completed on this task.

TASK 5

Task 5 draft report has been completed and the appropriate number of copies transmitted to the NRC (reference GAI letter #80). We are presently awaiting NRC review comments on this Task 5 draft report, and will then appropriately revise this report and publish in final form.

Personnel Time and Expenditures

	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
Total Direct Labor			\$ 0.00	\$ 47,173.28
Labor Overhead (20.8% of \$0.00)			\$ 0.00	\$ 9,812.04
Travel			\$ 0.00	\$ 473.75
Other Direct Costs			\$ 432.72	\$ 3,655.59
General and Administrative (80.7% of \$0.00)			\$ 0.00	\$ 45,987.16
Total Costs			\$ 432.72	\$ 107,101.82
Fees (9.0% of \$432.72)			\$ 38.94	\$ 9,639.16
Total Costs and Fees			\$ 471.66	\$ 116,740.98

TASK 6Work Performed Through January 1, 1983

Projects 1 through 18 have been completed under Task 6.

Project 19 generally consists of reviewing the BWIP SCR, assistance in preparation of NRC's corresponding DSCA and Appendix "Y". This work is coordinated with work being performed under other NRC-GAI contracts.

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During December, the SCR was reviewed by suitably qualified and knowledgeable personnel, and their resulting review comments (especially concerning SCR Sections 2, 4, 10, 11, 12, 14 and 17) were transmitted to the NRC. A draft of DSCA Section 7 was prepared, based on those comments, and a draft of DSCA Appendix Y was prepared, and both were transmitted to the NRC.

Subsequent to providing this input, D. Pentz traveled to Silver Spring and assisted in the preparation of NRC's DSCA. He was assisted in this effort by other GAI personnel.

Personnel Time and Expenditures (Project 19)

	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
<u>Principal</u>				
L. West	16.0	\$27.64	\$ 442.24	
<u>Associate</u>				
R. Gates	75.0	\$25.48	\$ 1,911.00	
J. Byrne	9.0	\$23.56	\$ 212.04	
<u>Senior Geotechnical Engineer</u>				
W. Roberds	119.0	\$19.23	\$ 2,288.37	
L. Gonano	1.0	\$20.19	\$ 20.19	
<u>Senior Hydrologist</u>				
E. Poeter	4.0	\$14.90	\$ 59.60	
<u>Geotechnical Engineer</u>				
W. Dershowitz	7.0	\$13.94	\$ 97.58	
K. Jones	92.0	\$13.70	\$ 1,260.40	
J. Kleppe	1.0	\$14.42	\$ 14.42	
<u>Librarian</u>				
E. Eisenhood	1.0	\$ 8.53	\$ 8.53	
<u>Draftsperson</u>				
M. Northcraft	25.0	\$ 8.53	\$ 213.25	
H. Reeves	62.5	\$11.78	\$ 736.25	
J. Naganawa	8.0	\$12.00	\$ 96.00	
<u>Secretarial</u>				
L. Wuelner	63.0	\$ 7.45	\$ 469.35	
N. Henderson	10.0	\$ 8.17	\$ 81.70	
B. Berry	6.0	\$ 7.45	\$ 44.70	
H. deGraaff	60.5	\$ 7.21	\$ 436.21	
L. Porter	14.5	\$ 7.45	\$ 108.03	

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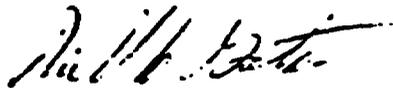
January 17, 1983

	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
Total Direct Labor			\$ 8,499.86	\$ 22,026.18
Labor Overhead (20.8% of \$8,499.86)			\$ 1,767.97	\$ 4,581.44
Travel			\$ 354.64	\$ 354.64
Other Direct Costs			\$ 2,056.85	\$ 2,865.48
Consultant - J. Daemen	10.0	\$50.00		
	4.0	\$35.00	\$ 640.00	\$ 1,910.00
General and Administrative (80.7% of \$10,267.83)			\$ 8,286.14	\$ 21,472.35
Total Costs			\$21,605.46	\$ 53,208.09
Fees (9% of \$21,605.46)			\$ 1,944.49	\$ 4,788.73
Total Costs and Fees			\$23,549.95	\$ 57,996.82

Golder Associates appreciates the opportunity to submit this progress report. Should you have any questions concerning the above, please contact me.

Sincerely,

GOLDER ASSOCIATES



Richard H. Gates, Ph.D., P.E.  
Project Manager

WJR/lw

Attachment

cc: Director of NMSS  
(Attn: Program Support Branch)

Director, Division of Waste Management  
John B. Martin

Mr. Lud Hartung  
Project Manager