



Golder Associates
CONSULTING GEOTECHNICAL AND MINING ENGINEERS

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November 16, 1982

Our ref: G/82/363
813-1162-1167

PDK
LPDK (B, N, S)

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

Attention: Mary Jo Mattia (Joyce Fields)

Subject: Contract No. NRC-02-81-037
Technical Assistance for Repository Design
October Progress Report - Letter #78

Madame:

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 October 3, 1982 through October 30, 1982, 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 October 30, 1982

Informal review of drafts are planned for this month as well as final printing.

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PDR WMRES EECOLD PDR
B-6983

Personnel Time and Expenditures

	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
<u>Principal</u>				
A. Brown	7.0	\$26.44	\$ 185.08	
D. Pentz	22.0	\$27.64	\$ 608.08	
<u>Associate</u>				
R. Gates	17.0	\$25.48	\$ 433.16	
J. Byrne	33.0	\$23.56	\$ 777.48	
<u>Senior Geotechnical Engineer</u>				
W. Roberds	144.0	\$19.23	\$ 2,769.12	
<u>Senior Hydrologist</u>				
J. Rowe	1.0	\$17.07	\$ 17.07	
<u>Hydrologist</u>				
F. Marinelli	12.0	\$12.98	\$ 155.76	
<u>Geological Engineer</u>				
F. Bauhof	21.0	\$12.26	\$ 257.46	
<u>Geotechnical Engineer</u>				
W. Dershowitz	23.5	\$13.94	\$ 327.59	
K. Jones	18.5	\$13.70	\$ 253.45	
<u>Draftsperson</u>				
H. Reeves	7.0	\$11.78	\$ 82.46	
M. Northcraft	6.0	\$ 8.54	\$ 51.24	
V. Kizer	9.5	\$ 5.00	\$ 47.50	
<u>Secretarial</u>				
H. deGraaff	26.5	\$ 7.21	\$ 191.07	
N. Henderson	39.0	\$ 8.17	\$ 318.64	
L. Wuellner	18.0	\$ 7.45	\$ 134.11	
Total Direct Labor			\$ 6,609.24	\$ 119,049.06
Labor Overhead (20.8% of \$6,609.24)			\$ 1,374.72	\$ 24,762.21
Travel			\$ 0.00	\$ 2,331.62

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	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
Other Direct Costs			\$ 894.46	\$ 15,793.81
Consultant - J. Daemen			\$ 0.00	\$ 140.00
General and Administrative (80.7% of \$7,983.96)			\$ 6,443.06	\$ 116,055.71
Total Costs			\$15,321.48	\$ 278,132.41
Fees (9.0% of \$15,321.48)			\$ 1,378.93	\$ 25,031.92
Total Costs and Fees			\$16,700.41	\$ 303,164.33

TASK 3

Work has been completed on this task.

TASK 4

Work Performed Through October 30, 1982

Work has been completed on this task.

Personnel Time and Expenditures

	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
Total Direct Labor			\$ 0.00	\$ 14,845.48
Labor Overhead (20.8% of \$0.00)			\$ 0.00	\$ 3,087.86
Travel			\$ 0.00	\$ 465.28
Other Direct Costs			\$ 49.95	\$ 864.56
General and Administrative (80.7% of \$0.00)			\$ 0.00	\$ 14,472.21
Total Costs			\$ 49.95	\$ 33,735.39
Fees (9.0% of \$49.95)			\$ 4.50	\$ 3,036.19
Total Costs and Fees			\$ 54.45	\$ 36,771.58

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TASK 5

Task 5 is progressing within budget. The draft report will be forwarded this month.

Personnel Time and Expenditures

	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
<u>Geotechnical Engineer</u>				
J. Kleppe	121.5	\$14.42	\$ 1,752.03	
<u>Mining Engineer</u>				
A. Lumsden	75.0	\$14.19	\$ 1,063.50	
Total Direct Labor			\$ 2,815.53	\$ 46,085.05
Labor Overhead (20.8% of \$2,815.53)			\$ 585.63	\$ 9,585.69
Travel			\$ 0.00	\$ 473.75
Other Direct Costs			\$ 0.00	\$ 2,749.12
General and Administrative (80.7% of \$3,401.16)			\$ 2,744.74	\$ 44,926.29
Total Costs			\$ 6,145.90	\$ 103,819.90
Fees (9.0% of \$6,145.90)			\$ 553.13	\$ 9,343.79
Total Costs and Fees			\$ 6,699.03	\$ 113,163.69

TASK 6Work Performed Through October 30, 1982

Projects 1 through 18 have been completed under Task 6.

Project 19 consists of reviewing the BWIP SCR, preparation of DSCA and Appendix "Y". This project has just been initiated.

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Personnel Time and Expenditures (Project 16)

	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
<u>Associate</u>				
R. Byrne	4.0	\$23.56	\$ 94.24	
<u>Librarian</u>				
E. Eisenhood	.5	\$ 8.54	\$ 4.27	
<u>Secretarial</u>				
N. Henderson	3.0	\$ 8.17	\$ 24.51	
Total Direct Labor			\$ 123.02	\$ 3,998.08
Labor Overhead (20.8% of \$123.02)			\$ 25.59	\$ 831.60
Travel			\$ 0.00	\$ 0.00
Other Direct Costs			\$ 42.50	\$ 449.84
General and Administrative (80.7% of \$148.61)			\$ 119.93	\$ 3,897.55
Total Costs			\$ 311.04	\$ 9,177.07
Fees (9.0% of \$311.04)			\$ 27.99	\$ 825.94
Total Costs and Fees			\$ 339.03	\$ 10,003.01

Personnel Time and Expenditures (Project 17)

	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
<u>Associate</u>				
R. Talbot	7.0	\$22.60	\$ 158.20	
R. Byrne	42.0	\$23.56	\$ 989.52	
R. Gates	40.0	\$25.48	\$ 1,019.20	
<u>Senior Geotechnical Engineer</u>				
L. Gonano	8.0	\$20.19	\$ 161.52	
W. Roberds	14.0	\$19.23	\$ 269.22	
<u>Geological Engineer</u>				
F. Bauhof	8.0	\$12.26	\$ 98.08	

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	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
<u>Librarian</u>				
E. Eisenhower	1.0	\$ 8.54	\$ 8.54	
<u>Secretarial</u>				
N. Henderson	5.5	\$ 8.17	\$ 44.94	
H. deGraaff	7.5	\$ 7.21	\$ 54.08	
L. Wuellner	3.5	\$ 7.45	\$ 26.08	
Total Direct Labor			\$ 2,829.38	\$ 4,277.34
Labor Overhead (20.8% of \$2,829.38)			\$ 588.51	\$ 889.69
Travel			\$ 0.00	\$ 0.00
Other Direct Costs			\$ 232.14	\$ 388.84
Consultant - J. Daemen	4.0	\$35.00	\$ 140.00	\$ 350.00
General and Administrative (80.7% of \$3,417.89)			\$ 2,758.24	\$ 4,169.79
Total Costs			\$ 6,548.27	\$ 10,075.66
Fees (9% of \$6,548.27)			\$ 589.34	\$ 906.81
Total Costs and Fees			\$ 7,137.61	\$ 10,982.47

Personnel Time and Expenditures (Project 18)

	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
<u>Principal</u>				
D. Pentz	65.0	\$27.64	\$ 1,796.60	
<u>Associate</u>				
R. Gates	54.0	\$25.48	\$ 1,375.92	
R. Talbot	5.5	\$22.60	\$ 124.30	
<u>Senior Geotechnical Engineer</u>				
W. Roberds	9.0	\$19.23	\$ 173.07	
L. Gonano	3.5	\$20.19	\$ 70.66	

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	<u>Hours</u>	<u>Cost/Hour</u>	<u>Total Cost</u>	<u>Cumulative</u>
<u>Senior Geologist</u>				
H. Delaney	.5	\$15.14	\$ 7.57	
<u>Geotechnical Engineer</u>				
W. Dershowitz	3.0	\$13.94	\$ 41.82	
<u>Draftsperson</u>				
M. Northcraft	4.0	\$ 8.54	\$ 34.12	
<u>Librarian</u>				
E. Eisenhower	5.5	\$ 8.54	\$ 46.97	
<u>Secretarial</u>				
L. Wuellner	13.0	\$ 7.45	\$ 96.85	
N. Henderson	9.5	\$ 8.17	\$ 77.62	
B. Berry	8.5	\$ 7.45	\$ 63.32	
Total Direct Labor			\$ 3,908.82	\$ 9,503.82
Labor Overhead (20.8% of \$3,908.82)			\$ 813.04	\$ 1,976.80
Travel			\$ 1,180.82	\$ 2,969.32
Other Direct Costs			\$ 94.06	\$ 244.17
Consultant - J. Daemen	10.0	\$50.00		
	24.0	\$35.00	\$ 1,340.00	\$ 2,610.00
General and Administrative (80.7% of \$4,721.86)			\$ 3,810.60	\$ 9,264.92
Total Costs			\$ 11,147.34	\$ 26,569.03
Fees (9% of \$11,147.34)			\$ 1,003.81	\$ 2,391.76
Total Costs and Fees			\$ 12,150.65	\$ 28,960.29

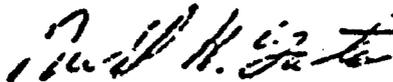
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November 16, 1982

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
Project Manager

RHG/lw

Attachment

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

Director, Division of Waste Management
John B. Martin

Mr. Lud Hartung
Project Manager

NRC-02-81-037

TABLE 1
PROJECT COSTS THROUGH OCTOBER 30, 1982

TASK	CURRENT MONTH	CUMULATIVE TO DATE			TOTAL TO DATE	PROJECTIONS TO END OF PROJECT			TOTAL CONTRACT LIMIT
		FY81	FY82	FY83		NOVEMBER	DECEMBER	JAN-AUG 83	
Task 1		\$ 51,892	\$ 24,344		\$ 76,236	Complete			\$ 76,236
Task 2	\$ 16,700	36,739	249,725	\$ 16,700	303,164	\$ 5,860			309,024
Task 3			77,702		77,702	Complete			77,702
Task 4	54		36,717	54	36,771	Complete			36,771
Task 5	6,699		106,465	6,699	113,164	3,301	\$ 579		117,044
Task 6									
Project 1		2,829			2,829	Complete			2,829
Project 2		4,983			4,983	Complete			4,983
Project 3		2,700	5,436		8,136	Complete			8,136
Project 4		9,892			9,892	Complete			9,892
Project 5		2,721			2,721	Complete			2,721
Project 6		3,133			3,133	Complete			3,133
Project 7		6,482			6,482	Complete			6,482
Project 8		275			275	Cancelled			275
Project 9		9,636	54		9,690	Complete			9,690
Project 10		13,057	3,085		16,142	Complete			16,142
Project 11			3,194		3,194	Complete			3,194
Project 12			5,899		5,899	Complete			5,899
Project 13			6,778		6,778	Complete			6,778
Project 14			11,000		11,000	Complete			11,000
Project 15			5,000		5,000	Complete			5,000
Project 16	339		9,664	339	10,003	Complete			10,003
Project 17	7,138		3,845	7,138	10,983	Complete			10,983
Project 18	12,151		16,810	12,151	28,961	Complete			28,961
Project 19						30,000	19,000	\$ 10,000	59,000
Task 6 Total	19,628	55,708	70,765	19,628	146,101	30,000	19,000	35,111	230,212
TOTAL	\$ 43,081	\$ 144,339	\$ 565,718	\$ 43,081	\$ 753,138	\$ 39,161	\$ 19,579	\$ 35,111	\$ 846,989

Note: These costs are based on actual total direct labor and direct costs, using VA accounting method and original contract G&A and OH rates. These costs will be modified upon NRC approval of our proposed modification (reference your letter of October 13, 1982 and our letter #72).