

46-8031

APR 17 1979

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~~Subject File~~
WTCrow
JEvans, PSB

Mr. W. J. Hallet
Argonne National Laboratory
Building 10
9700 South Cass Avenue
Argonne, Illinois 60439

Dear Mr. Hallet:

This is to confirm my telephone conversation with you on March 29, 1979. I am aware that since the death of Dr. Norman Frigerio, of the ANL staff, that some of the tasks that he had been handling have had to be put in a "hold-status" until they could be reassigned. As we discussed it is imperative that the surveillance of the decontamination efforts at the former licensed site on Latty Avenue in Hazelwood, Missouri be continued. If adequate laboratory personnel are not available to handle this contract I suggest that ANL subcontract what effort is needed so that the project will not be delayed.

Since this is a rather specialized effort I have asked some of the staff to recommend possible subcontractors. One contractor has been recommended by several people, Radiation Management Corporation. I understand that they have offices in Philadelphia, Pennsylvania and Chicago, Illinois.

If there are any questions, please call.

Sincerely,

Original signed by:
W. T. Crow

W. T. Crow, Section Leader
Uranium Fuel Fabrication Section
Fuel Processing & Fabrication Branch
Division of Fuel Cycle and
Material Safety

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OFFICE	FCPF	JEvans				
DATE	04/17/79	04/17/79				

FILE

July 25, 1979

Dr. C. J. Roberts
EIS Division
Argonne National Laboratory
9700 S. Cass Ave.
Argonne, IL 60939

Dear Lyle:

Enclosed are our cost estimates for performing the off site work at Latty Ave. as requested by Bill Crow. These funds are in addition to those allocated for our present on-site work. As you can see, 75% of the additional money would be for monitoring the movement of soil from Latty Ave to the land fill. We feel this work would require one man on site almost continuously to perform and oversee the monitoring and decon work. If our time estimates are reasonably accurate, it seems likely that this work would extend beyond September 30th, into the next fiscal year. As usual, these estimates are based on the assumption that no additional, unusual problems will be encountered during the course of this work.

As for the actual cost of the removal of dirt from the land south of the Latty Ave. site, it is difficult to estimate without knowing the actual volumes involved. However, based on our knowledge of the Latty Ave site work, we would guess that the off-site decon work would take at least two weeks, at a minimum cost of 10K. We have worked with a local concern in projects like this in the past and I am sure they would quote you rates if you are interested.

radiation
management
corporation

Sincerely,

Leroy F. Booth

Leroy F. Booth
Health Physicist

Midwest Division
3356 Commercial Avenue
Northbrook, Illinois 60062
(312) 291-1030

xc Roy *Hubert*

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FILE

ESTIMATED COST FOR LATTY AVE OFF SITE WORK

1) Estimate of the Volume of Off-Site Contamination.

Task	Personnel Category & Man-Hour		
	702	703	704
Preparation	8		8
Surface Survey			8
Bore-Hole Survey		16	8
Report & Volume Estimate	4	4	
Man Hours	12	20	24
Labor Costs	\$560	\$740	\$630
Equipment Costs	\$250		
Travel & Living Costs	\$500		
Total Cost	\$2680		

2) Survey of Little Cold Water Creek

Task	Personnel Category & Man-Hour		
	702	703	704
Preparation	8		8
External Dose Rate Survey			8
Sampling			4
Report Preparation	8		4
Man Hours	16		24
Labor Costs	\$750		\$630
Analyze	\$1000		
Equipment Cost	\$100		
Travel & Living Cost	\$300		
Total Cost	\$2780		

3) Monitor the Transfer of Soil from Latty Ave. to the Airport Site

Assumption: Total Volume to be Moved = 40,000 yd
 One Truck Load = 8 yd
 # Truck Loads = 5000



With two front end loaders and a fleet of trucks;

Time to Load One Truck = 6 Min.

Truck Loads per hour = 10

Truck Loads per 10 hour day = 100

Work Days = 50

Task	Personnel Category & Man Hour		
	702	703	704
Preparation	16	8	8
On-Site Monitoring	40	40	400
Close Out Survey & Report	16	8	16
Man Hours	72	56	424

Labor Costs \$3380 \$2070 \$11,020

Travel & Living Costs \$600 \$600 \$4000

Equipment & Material \$1000

Total Cost \$22,670

Grand Total for all Additional Work = \$28,130.00

Time

August 1, 1979

Dr. C. J. Roberts
EIS Division
Argonne National Laboratory
9700 S. Cass Avenue
Argonne, IL 60439

Dear Lyle:

The following is a summary of our discussions with Bill Crow during his Latty Avenue site visit on July 20th, 1979.

Bill was shown results of external gamma measurements taken on 10, 11 & 12th of July, which are enclosed. As you can see, the majority of gross gamma levels are between 20 and 30 $\mu\text{R/hr}$. Off-site levels, areas on-site which are in excess of 20 $\mu\text{R/hr}$ and were cleared by Bill Grant, and levels prior to the June decon work were also reviewed and are enclosed.

Contamination checks from Bldg 1 were reviewed, with high levels of removable alpha contamination in the crossbeams noted.

We discussed the possibility of performing bioassays on the heavy equipment operator who was on site regularly. It was agreed that it would probably be best to have Argonne do this if it is necessary.

We were told that while the NRC would be interested in Th-230 levels in soil of the order of 5-10 pCi/g , no criteria would be set at this time. Thus, the only criteria for nuclides in soil is for Ra-226.

Bill also indicated his desire to have us perform additional work not in the original statement of work. This includes estimating the volume of soil off-site which would have to be removed to meet NRC criteria, performing surveys and sampling in Little Cold Water Creek to assure that run-off is not contaminating Cold Water Creek, and health physics monitoring during transfer of contaminated soil from Latty Avenue to the land fill. He asked us to submit to you an estimated cost for this work, which I have done under separate cover.

I have also included an analysis of our soil samples based on our gamma scans and on the data from Idaho Falls. The Ra-226 and Ac-227 have been determined directly from the gamma analyses, while Th-230 and Pa-231 are estimated from relationships established from the Idaho Falls data (see enclosed graphs). All samples were taken at a depth of one foot at the grid locations indicated on the maps.

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