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**3601**

**RESULTS OF GRAB SAMPLES AND CONTINUOUS  
PYLON MONITORS FOR SILOS 1 AND 2**

**8-7-92**

**DOE-EPA  
DOE-2349-92  
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LETTER**



**Department of Energy**  
**Fernald Environmental Management Project**  
P.O. Box 398705  
Cincinnati, Ohio 45239-8705  
(513) 738-6357

AUG 07 1992  
DOE-2349-92

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Mr. James A. Saric, Remedial Project Director  
U.S. Environmental Protection Agency  
Region V - 5HR-12  
230 South Dearborn Street  
Chicago, Illinois 60604

Mr. Graham E. Mitchell, DOE Coordinator  
Ohio Environmental Protection Agency  
40 South Main Street  
Dayton, Ohio 45402

Dear Mr. Saric and Mr. Mitchell:

**RESULTS OF GRAB SAMPLES AND CONTINUOUS PYLON MONITORS FOR SILOS 1 AND 2**

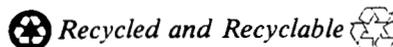
Silos 1 and 2 were recently sampled for headspace radon concentrations using a grab sample method, as was performed in 1987, and a continuous radon monitor. The results of these efforts are as follows:

	DATE	GRAB SAMPLE(Time)	CONT. PYLON MONITOR(Time)
Silo 1	7/16/92	128,734 pCi/l(9:30am)	
	7/22/92	127,834 pCi/l(9:40am)	109,000 pCi/l(9:56am)
Silo 2	7/23/92	228,303 pCi/l(7:32pm)	154,200 pCi/l(7:25pm)
	7/23/92	180,839 pCi/l(8:22pm)	182,715 pCi/l(8:40pm)

The above results indicate a reduction of radon concentration in the headspace of over 99%.

As previously discussed at the Program Managers' Meeting on July 21, 1992, the Department of Energy (DOE) is preparing a paper detailing a revised method for evaluating the effectiveness of the bentonite in the silos. The reduction in radon emanation, as a result of bentonite installation, can be evaluated more thoroughly and consistently using accurate methods to measure the radon concentration in the silo head space and by analyzing the relationship of radon concentration in the silos to observed radon concentrations in the vicinity of the silos and at the site boundary. This package is expected to be completed in September 1992, to provide adequate time for the incorporation

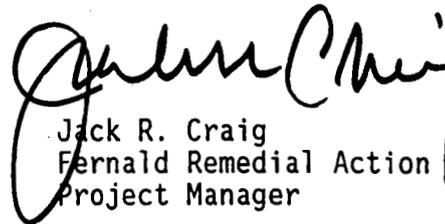
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and evaluation of hourly head space data for both the month of July and August, 1992, as well as the analysis of observed radon data from outside of the silos.

If you or your staff have any questions or comments, please contact Randi Allen or Randy Janke at FTS/Commercial 513-738-6158 or 513-738-6937, respectively.

Sincerely,



Jack R. Craig  
Fernald Remedial Action  
Project Manager

FN:Allen

cc.:

J. J. Fiore, EM-42, TREV  
K. A. Hayes, EM-424, TREV  
L. Jenson, USEPA-V, AT-18J  
B. Barwick, USEPA-V, 5CS-TUB-3  
J. Kwasniewski, OEPA-Columbus  
P. Harris, OEPA-Dayton  
M. Proffitt, OEPA-Dayton  
T. Schneider, OEPA-Dayton  
F. Bell, ASTDR  
T. W. Hahne, PRC  
L. August, GeoTrans  
R. L. Glenn, Parsons  
D. J. Carr, WEMCO  
L. S. Farmer, WEMCO  
J. P. Hopper, WEMCO  
J. D. Wood, ASI/IT  
J. E. Razor, ASI/IT  
AR Coordinator, WEMCO