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RADON MEASUREMENT OF WASTE PIT 4

08/14/92



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

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DOE-2272-92

Mr. James A. Saric, Remedial Project Director
United States Environmental Protection Agency
Region V - HRE-8J
77 West Jackson Street
Chicago, Illinois 60604-3590

Mr. Graham E. Mitchell, Project Manager
Ohio Environmental Protection Agency
40 South Main Street
Dayton, Ohio 45402-2086

Dear Mr. Saric and Mr. Mitchell:

RADON MEASUREMENT OF WASTE PIT 4

Reference: Letter, R. E. Tiller to J. A. Saric and G. E. Mitchell, "Radon Measurement of Waste Pit 4," dated June 25, 1992

In the letter referenced, we requested the United States Environmental Protection Agency's (U.S. EPA) approval to delete the requirement to conduct radon flux measurements for Pit 4 because it was covered with clay and a liner. The U.S. EPA's response, in a teleconference on May 27, 1992, was to make confirmatory measurements to verify that the flux was well below the standard. The Department of Energy (DOE) agreed to submit a plan for such confirmatory measurements (see enclosure).

We are requesting a deviation from the sampling methodology contained in Standard Method 115 (40 CFR 61 Appendix B, 7-1-91 Edition) in respect to sample size. It is proposed that 20-30 samples be randomly selected from the 100 locations that will be gridded on the Pit 4 site. This proposed number of samples is based on empirical data from the radon-flux measurements of Pits 1, 2, and 3 previously conducted at the Fernald Environmental Management Project (FEMP) and data from a similar waste pile at the Middlesex, New Jersey Sampling Plant that had similar concentrations of ^{226}Ra . The proposed sample size is deemed to be statistically valid.

This plan is an addendum to the FEMP Sample and Analysis Plan for Fernald Radon-Flux Measurement Survey, Phase 1 and Site-Specific Health and Safety Plan for Fernald Radon-Flux Measurement Survey, Phase 1 previously approved by the U.S. EPA.

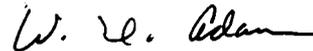
We request your formal response to our plan by August 24, 1992. A draft was transmitted by facsimile to M. Murphy of U.S. EPA's Air and Radiation Branch

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on August 11, 1992, and a teleconference is scheduled for the week of August 17, 1992, to discuss details.

If you or your staff have any questions, please contact Behram Shroff at FTS/Commercial (513) 738-6003.

Sincerely,



W. D. Adams
Acting Manager

FN:Shroff

Enclosures: As Stated

cc w/encs.:

L. Jensen, USEPA-V, AT-18J
AR Coordinator, WEMCO

cc w/o encs.:

J. J. Fiore, EM-42, TREV
K. A. Hayes, EM-424, TREV
M. Butler, USEPA-V, 5CS-TUB-3
J. Kwasniewski, OEPA-Columbus
P. Harris, OEPA-Dayton
M. Proffitt, OEPA-Dayton
T. Schneider, OEPA-Dayton
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