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**FURTHER TREATABILITY STUDIES AT THE
FERNALD ENVIRONMENTAL MANAGEMENT
PROJECT**

04/05/94

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Department of Energy
Fernald Environmental Management Project
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APR 05 1994

DOE-1289-94

Mr. D. R. Schregardus, Director
Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, Ohio 43266-1049

Dear Mr. Schregardus:

FURTHER TREATABILITY STUDIES AT THE FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

The Department of Energy (DOE) plans to initiate, and or continue further treatability studies at the Fernald Environmental Management Project (FEMP) during FY94, in support of the Remedial Investigation/Feasibility Study conducted in accordance with the Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

It is the intent of the DOE to conduct these treatability studies pursuant to the conditions of OAC 3745-51-04 (F), which exclude the treatability studies from the requirements of rules 3745-50-40 to 3745-50-70, Chapters 3745-51 to 3745-59, Chapters 3745-65 to 3734-69 of the Administrative Code, and Chapter 119 of the Revised Code, or to the notification requirements of section 3010 of the Resource Conservation Recovery Act (RCRA).

Per the conditions of this exemption, the DOE is providing this notification at least 45 days prior to the initiation of the treatability studies. The following demonstrations are being conducted by DOE's (EM-50) Uranium Soils Integrated Demonstration (USID) program for FY94:

1. A continuation of the real-time characterization studies started last summer that will include the following technologies:
 - Gamma ray spectroscopy (down hole)
 - Inductively coupled plasma optical emission spectrometry (ICP-OES)
 - Long range alpha detector (L-rad)
 - Beta simulation detector

2. New technologies this year will include:
- X-ray Fluorescence (portable)
 - Sodium Iodide detector
 - Low energy scintillation detector
 - Passive in-situ monitoring (chips)
 - Vadose-zone infiltration (dye study)
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3. Under the treatment category the soil washing/chemical extraction project will continue as new extractants are evaluated. We anticipate processing soil from the DOE-Portsmouth, Ohio facility (3-5 drums) through the USID soil washing equipment, and then vitrifying it under the Minimum Additive Waste Stabilization (MAWS) program. This was informally discussed with Mr. Tom Schneider of the Ohio Environmental Protection Agency (OEPA) and Mr. Jim Saric of the United States Environmental Protection Agency (USEPA) on March 14, 1994. Another activity under consideration is a plant up-take study.

The plant up-take study and the Portsmouth soils are the first new activities planned to begin in late May 1994.

If you or your staff have any questions, please contact Rod Warner of my staff at (513) 648-3156.

Sincerely,


J. Phil Hamric
Manager

FN:Shroff

cc:

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