



Department of Energy
Ohio Field Office
Fernald Environmental Management Project
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155



4462

AUG 26 2002

Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0678-02

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

**SUBMITTAL OF THE REPORT ON MINIMUM DETECTABLE CONCENTRATIONS AND
WASTE ACCEPTANCE CRITERIA TRIGGER LEVELS FOR THE IN SITU SODIUM IODIDE
GAMMA SPECTROSCOPY SYSTEMS USED AT THE FERNALD ENVIRONMENTAL
MANAGEMENT PROJECT**

The purpose of this letter is to transmit the subject report. A draft, electronic version of this report was submitted via email on June 13, 2002. The current revision represents a more refined document and addresses the effects of soil moisture and radon loss on the calculation of Minimum Detectable Concentrations (MDC). We are happy to be able to provide this information to you. The availability of the calibration pad at the Fernald Environmental Management Project (FEMP) has allowed improved calibrations to be developed for the sodium iodide (NaI) detectors used in the mobile in situ gamma spectroscopy systems that the Fernald Environmental Management Project (FEMP) deploys for scanning soils for radionuclides. Availability of the pad also has allowed the determination for those systems of (1) improved trigger levels for use in establishing whether soil exceeds the Waste Acceptance Criterion (WAC) for uranium for the FEMP's on-site disposal facility and (2) improved MDCs. We feel our ability to determine and document this important information for each of our NaI-based platforms demonstrates for all our stakeholders that the real-time program has reached another milestone in data quality.

AUG 26 2002

DOE-0678-02

Mr. James A. Saric
Mr. Tom Schneider

-2-

3800

If you should have any questions, please contact Robert Janke at (513) 648-3124.

Sincerely,



Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:R.J. Janke

Enclosure: As Stated

cc w/enclosure:

R. J. Janke, OH/FEMP
A. Murphy, OH/FEMP
D. Pfister, OH/FEMP
T. Schneider, OEPA-Dayton (three copies of enclosure)
G. Jablonowski, USEPA-V, SRF-5J
F. Bell, ATSDR
M. Cullerton, Tetra Tech
M. Shupe, HSI GeoTrans
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

R. Greenberg, EM-31/CLOV
N. Hallein, EM-31/CLOV
J. Reising, OH/FEMP
A. Tanner, OH/FEMP
D. Carr, Fluor Fernald, Inc./MS2
J. D. Chiou, Fluor Fernald, Inc./MS64
T. Hagen, Fluor Fernald, Inc./MS9
F. Miller, Fluor Fernald, Inc./MS64
T. Poff, Fluor Fernald, Inc./MS65-2
ECDC, Fluor Fernald, Inc./MS52-7