



Department of Energy

Ohio Field Office
Fernald Closure Project
175 Tri-County Parkway
Springdale, Ohio 45246
(513) 648-3155



DEC 29 2004

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V, SR-6J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0107-05

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

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF 1) USER GUIDELINES, MEASUREMENT STRATEGIES, AND OPERATIONAL FACTORS FOR DEPLOYMENT OF IN SITU GAMMA SPECTROMETRY AT THE FERNALD SITE, REVISION 1, AND 2) MEASUREMENT UNCERTAINTIES AND MINIMUM DETECTABLE CONCENTRATIONS FOR THE IN SITU GAMMA SPECTROSCOPY SYSTEMS USED AT THE FERNALD SITE

Reference: DOE-0385-04, W. Taylor to J. Saric and T. Schneider, "Use of Hand-Held Sodium Iodide Detector for Preliminary Scan of Contaminated Soil," dated August 30, 2004

Enclosed for your information are the revised User Guidelines, Measurement Strategies, and Operational Factors for Deployment of In Situ Gamma Spectrometry at the Fernald Site (User's Manual). There have been several significant software improvements related to analysis of sodium iodide gamma ray spectra since Revision 0 of this document was issued in January 2004. These changes precipitated a reexamination of the uncertainties and minimum detectable concentrations (MDCs) associated with sodium-iodide (NaI) measurements. The Argonne National Laboratory's Environmental Assessment Division published these revised uncertainties and MDCs in June 2004 under the second document title stated above. A copy of this report is also enclosed.

Mr. James A. Saric
Mr. Tom Schneider

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Additionally, a hand-held system called the nanoSPEC has been added to the arsenal of NaI detectors that are available for use in screening soils at the Fernald Closure Project for radioactive contaminants. As requested by the Ohio Environmental Protection Agency (OEPA), the use of this newest NaI scanning tool is described in the User's manual.

If you have any questions or need further information, please contact Johnny Reising at (513) 648-3139.

Sincerely,



for

William J. Taylor
Director

FCP:Reising

Enclosure: As Stated

cc w/enclosures:

J. Reising, OH/FCP
T. Schneider, OEPA-Dayton (three copies of enclosure)
G. Jablonowski, USEPA-V, SR-6J
F. Bell, ATSDR
J. Colleli, ODH
M. Cullerton, Tetra Tech
M. Shupe, HSI GeoTrans
AR Coordinador, Fluor Fernald, Inc./M78

cc w/o enclosures:

R. Vandegrift, ODH
R. Abitz, Fluor Fernald, Inc./MS64
K. Alkema, Fluor Fernald, Inc./MS01
J. Chiou, Fluor Fernald, Inc./MS64
M. Frank, Fluor Fernald, Inc./MS64
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