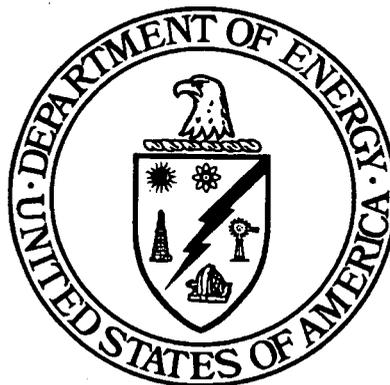


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**PROJECT SPECIFIC PLAN GUIDELINES FOR  
GENERAL CHARACTERIZATION FOR  
SITEWIDE SOIL REMEDIATION**

**ENVIRONMENTAL CLOSURE PROJECT**

**FERNALD CLOSURE PROJECT  
FERNALD, OHIO**



**JULY 2005**

**U.S. DEPARTMENT OF ENERGY  
FERNALD AREA OFFICE**

**20300-PSP-0011  
REVISION 2  
PCN 1**

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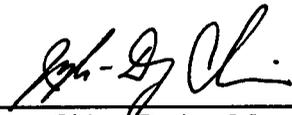
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**PROJECT SPECIFIC PLAN GUIDELINES FOR  
GENERAL CHARACTERIZATION FOR SITEWIDE SOIL REMEDIATION**

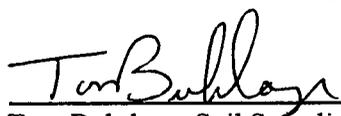
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Revision 2, PCN 1**

**July 2005**

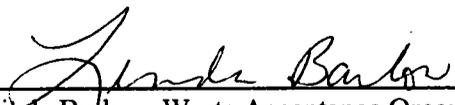
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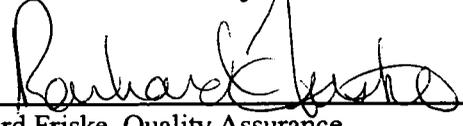
  
\_\_\_\_\_  
Jyh-Dong Chiou, Project Manager  
Environmental Closure Project  
7/5/05  
Date

  
\_\_\_\_\_  
Frank Miller, Soils Characterization Manager  
Environmental Closure Project  
7/5/05  
Date

  
\_\_\_\_\_  
Tom Buhlage, Soil Sampling Manager  
Environmental Closure Project  
7/5/05  
Date

  
\_\_\_\_\_  
Mike Frank, Real-Time Instrumentation Measurement Program Manager  
Environmental Closure Project  
7-5-05  
Date

  
\_\_\_\_\_  
Linda Barlow, Waste Acceptance Organization  
Environmental Closure Project  
7/5/05  
Date

  
\_\_\_\_\_  
Reinhard Friske, Quality Assurance  
Safety, Health and Quality  
7.5.05  
Date

**FERNALD CLOSURE PROJECT**

**Fluor Fernald, Inc.  
P.O. Box 538704  
Cincinnati, Ohio 45253-8704**

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**REVISION SUMMARY**

6010

<u>Revision</u>	<u>Date</u>	<u>Description of Revision</u>
Rev. 0	8-7-03	Initial controlled issuance
Rev. 1	10-27-03	Revised to include U.S. EPA comment responses and OEPA expectations including document title revision.
Rev. 2	1-13-04	Revised to include additional U.S. EPA comment responses and OEPA comment responses.
PCN 1	7-1-05	Revised to include key personnel changes to Table 1-1 and emergency contact direction in Section 8.0.

**Example outline for supplemental PSPs (continued):**

- 5.2 Organic Screening and Physical Sampling Requirements\*
  - 5.2.1 Above-WAC Photoionization Detector (PID)/Gas Chromatograph (GC) Screening\*
  - 5.2.2 All Other Physical Sample Requirements\*
  - 5.2.3 PID Screening and Physical Sampling Procedures\*
  - 5.2.4 Physical Sample Identification\*
- 6.0 Precertification\*
  - 6.1 Initial Precertification NaI Scan at Base of Design Grade\*
  - 6.2 Precertification HPGe Measurements in 20 ppm FRL (Uranium) Areas\*
  - 6.3 Precertification HPGe Measurements in 82 ppm FRL (Uranium) Areas\*
  - 6.4 Delineating Hot Spots Following Precertification HPGe Measurements\*
- 7.0 Quality Assurance/Quality Control Requirements\*
  - 7.1 Quality Control Samples – Real-Time Measurements and Physical Samples\*
  - 7.2 Data Validation\*
    - 7.2.1 Physical Sample Data Validation\*
    - 7.2.2 Real-Time Data Verification/Validation\*
  - 7.3 Applicable Documents, Methods and Standards\*
  - 7.4 Surveillances\*
  - 7.5 Implementation and Documentation of Variance/Field Change Notices (V/FCN)\*
- 8.0 Safety and Health\*
- 9.0 Equipment Decontamination\*
- 10.0 Disposition of Wastes\*
- 11.0 Data and Records Management\*
  - 11.1 Real-Time\*
  - 11.2 Physical Samples\*

**APPENDICES**

- Appendix A Target Analyte List for Predesign
- Appendix B Boring Table and Sample Identifiers for Predesign

**LIST OF TABLES**

*Tables will be provided as appropriate.*

**LIST OF FIGURES**

*Tables will be provided as appropriate.*

**1.4 KEY PERSONNEL**

The team members responsible for coordination of work in accordance with this PSP are listed in Table 1-1.

**TABLE 1-1  
 KEY PERSONNEL**

<b>Title</b>	<b>Primary</b>	<b>Alternate</b>
Department of Energy (DOE) Contact	Johnny Reising	TBD
Project Manager	Jyh-Dong Chiou	Rich Abitz
Characterization Manager	Frank Miller	Rich Abitz
Area 2, Phase II Lead	Debbie Brennan	Greg Lupton
Area 3B/4B/5 Lead	Greg Lupton	Krista Flaugh
Area 6 Lead	Krista Flaugh	Denise Arico
Area 7 Lead	Denise Arico	Krista Flaugh
Area Stream Corridors Lead	Debbie Brennan	Denise Arico
RTIMP Manager	Mike Frank	Dale Seiller
Soil Sampling Manager	Tom Buhlage	Jim Hey
Surveying Manager	Jim Schwing	Andy Clinton/Eric Harman
WAO Contact	Linda Barlow	Scott Osborn
Construction Manager	Kevin Harbin/Mike Stumbo	Dan Powell
Engineering Lead	Tony Snider	Dave Russell
Laboratory Contact	Heather Medley	Amy Meyer
Data Validation Contact	Jim Chambers	Baohe Chen
Field Data Validation Contact	Dee Dee Edwards	Jim Chambers
Data Management Lead	Same as the Area Leads listed above.	
Radiological Control Contact	Corey Fabricante	Jeff Denton
FACTS/SED Database Contact	Kym Lockard	Susan Marsh
Quality Control Contact	Reinhard Friske	Darren Wessel
Safety and Health Contact	Gregg Johnson	Jeff Middaugh

FACTS - Fernald Analytical Computerized Tracking System  
 RTIMP - Real Time Instrumentation Measurement Program  
 SED - Sitewide Environmental Database  
 WAO - Waste Acceptance Organization

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## 8.0 SAFETY AND HEALTH

Applicable work permits will be obtained per SH-0021, Work Permits, by the Soil Sampling Manager or designee. All work performed on this project will be performed in accordance with applicable Environmental Services procedures, RM-0020 (Radiological Control Requirements Manual), RM-0021 (Safety Performance Requirements Manual), Fluor Fernald work permits, RWP, penetration permits, and other applicable permits. Concurrence with applicable safety permits (as indicated by the signature of each field employee assigned to this project) is required by each employee in the performance of their assigned duties. **A safety briefing will be conducted prior to the initiation of field activities. Field personnel shall conduct a daily job safety meeting in the field to review possible hazards and controls. Hazards shall be resolved or controlled prior to start of work. Field crew shall walk down the work area prior to working in any new field location.**

A walk-down of the area by representatives from SDFP Characterization, RTIMP and the Soil and Miscellaneous Media Sampling (SMMP) groups may be required to determine the type of *in situ* gamma spectroscopy equipment to use and if the excavation lift area is ready for measurements or physical sampling (i.e., accessible by RTIMP equipment, boundaries marked or readily visible, no operating heavy duty equipment within 50-foot buffer zone, no excessive moisture or puddles, no soft spots, free of obstructions or depressions that might damage equipment, reasonable grade and slopes).

All personnel performing measurements and physical sampling related to this project will be briefed to work control documents, including the Safe Work Plan or Traveler Package, Fluor Fernald work permits, RWP, penetration permits, other applicable permits for the applicable area, and Environmental Services procedures. These work control documents will define required personal protective equipment (PPE) and safe work zones. Work control documents must be reviewed by Soil Sampling and RTIMP personnel to ensure that the intended work is within the scope of these documents (i.e., ensure work to be performed is addressed in the permit). These briefings will be documented. Personnel who are not documented as having completed these briefings will not participate in the execution of field activities. All personnel entering the Construction Area will obtain a pre-entry briefing on current activities or hazards that may affect their work. Additionally, prior to entry into an excavation, the Competent Person for Trenching and Excavation shall be contacted to assure that the daily inspection has been completed and the excavation is safe to enter.

RTIMP personnel are to demarcate a minimum of a 50-foot safe work zone for HPG<sub>e</sub> (tripod) measurement locations and RSS runs in the field using a sufficient number of construction cones to

clearly demarcate the work zone. RTIMP personnel operating the HPGe (tripod) and RSS in the construction area are occupied with watching measurement equipment computer screens and maneuvering the equipment. RTIMP personnel may not be aware of construction equipment moving in the field and operators of the construction equipment may not see the smaller HPGe (tripod) and RSS equipment/operator. The cones will be a visible indicator to construction equipment operators of the safe zone perimeter around this equipment. A 50-foot safe work zone does not need to be established for RTRAK, GATOR, and the EMS since this equipment is larger and more visible and it is easier for the driver to watch for approaching equipment.

The Soil Sampling Manager or designee and team members will assess the safety of performing sampling activities in the vicinity of each boring location. The Health and Safety representative will assist with the walk down upon request. This will include vehicle/equipment positioning limitations and fall hazards. The Soil Sampling Manager or designee will ensure that each Technician performing work related to this project has been trained to the relevant sampling procedures including safety precautions. Technicians who do not sign project safety and technical briefing forms will not participate in any activity related to the completion of assigned project responsibilities. A copy of applicable safety permits/surveys issued for worker safety and health will be posted in the affected area during field activities.

For an **emergency** on either Fernald (onsite) or leased (offsite) property, report immediately per the following:

- Dial 911 for local emergency service AND stay on phone UNTIL directed to hang up by the 911 Operator. (If on site, the location is 7400 Willey Road, Crosby Township. If off site, use appropriate address, nearest intersection, or other physical description to help the responding emergency service to determine location of emergency.)
- After calling 911, contact Assistant Emergency Duty Officer (AEDO) at 648-6511 to report the emergency.
- In an emergency situation, perform or direct others to perform the following, as possible:
  - Initiate first aid procedures UNTIL emergency response arrives.
  - Direct emergency response personnel to scene.
  - Stop all traffic to allow response vehicles access.
  - Keep phone open for essential communications only.
  - Secure area and prevent area from being disturbed UNTIL released by AEDO and project Health and Safety.
- Contact Project Management and H&S as time permits after handling the priority notifications.

For an **unusual occurrence (non-emergency)**, call 648-6511 to report the occurrence to the AEDO.