



**Department of Energy**

**Ohio Field Office  
Fernald Area Office**

P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155



1257

FEB 03 1998  
DOE-0371-98

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

**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 VARIANCES TO PROJECT SPECIFIC PLANS**

This letter serves to transmit variances to the following Project Specific Plans (PSP): PSP for Lead Delineation in the Area 2 Phase 1 (A2P1) Firing Range and Area 8 Phase 1 (A8P1) Pre-Certification Real Time Measurements. These variances do not significantly alter the scope of the PSPs.

If you have questions or comments regarding the variances, please contact Kathleen Nickel at (513) 648-3166.

Sincerely,

**Johnny W. Reising  
Fernald Remedial Action  
Project Manager**

FEMP:Nickel

Enclosure: As Stated

cc w/enc:

T. Schneider, OEPA-Dayton (total of 3 copies of enc)  
F. Baker, Tetra Tech  
AR Coordinator, FDF/78

cc w/o enc:

EDC, FDF/52-7

bcc w/enc:

R. J. Janke, DOE-FEMP  
M. Davis, ANL

VARIANCE / FIELD CHANGE NOTICE

V/F 50.0255067

WBS NO.: 50.03.59.06

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PROJECT TITLE: Area I Phase II Pre-Design Investigation 20710-PSP-0003

Date: 1/22/97

VARIANCE / FIELD CHANGE NOTICE (Include Justification):

Field Change Notices:

1 - Collect one 0-6" WAC soil sample to represent the soils in Acres 153, 154, 155, and 156 (not one per acre). The sample will be located in the NW corner of acre 154, if accessible. If the location is not accessible, another suitable location near the intersection of the four acres will be chosen. The sample will be identified as A1PII-INV-154-1-1-R. The sample will be analyzed by the on-site lab for Total Uranium and Tech-99 at ASL B. No duplicates or rinsates will be required. A geologist's oversight and lithologic log will not be required but the technicians will describe the general color of the soil sample..

2 - Run the RTRAK over Acres 153, 154, 155, and 156 to acquire as close to 100% coverage as possible. If Acres 146, 147, 148, 149, 150 are also accessible, RTRAK will be run over those acres to acquire as close to 100% coverage as possible. This will complete the RTRAK coverage requested in this PSP for A1P2 .

RTRAK speed will be as identified in the PSP (4 second acquisition speed at 1 mile per hour). Moisture readings will be collected as identified in the PSP (2 per acre). The requirement to collect density measurements is being dropped since the density data collected in A1P2 has not been used.

Justification:

Acres 146, 147, 148, 149, 150, 153, 154, 155, and 156 were covered by the East Soil Stockpile and the Debris Pile during the data collection phase of this PSP and were therefore inaccessible for RTRAK data collection and sampling until the week of Jan 26, 1998. OSDF construction is removing the Northern Part of the East Soil Stockpile and the entire Debris Pile to enable soil certification of CU A1PII-S2-2A-01 (which includes acres 153, 154, 155, and 156) and prepare the area for construction of Cell 3. OSDF construction will remove soil and debris down to the original grade, then RTRAK will be run and the WAC sample collected. Certification sampling will follow under PSP 50.03.59.07 after 6" of the soil is removed.

Only one sample is being taken for WAC determination because acres 153-156 represents one CU. At the time the PSP was written the CU design was not finalized so one WAC sample was taken per acre.

INFORMATION ONLY

REQUESTED BY: Joan White/Mike Frank

Date: 1/22/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>[Signature]</i>	1/26/98	X	PROJECT MANAGER <i>[Signature]</i>	1/26/98
	DATA QUALITY MANAGEMENT		X	Characterization Lead <i>[Signature]</i>	1/26/98
X	ANALYTICAL CUSTOMER SUPPORT <i>[Signature]</i>	1/26/98	X	Real Time Manager <i>[Signature]</i>	1/26/98
	OTHER		X	Est Manager <i>[Signature]</i>	1/26/98
VARIANCE/FCN APPROVED [X] YES [ ] NO			REVISION REQUIRED: [ ] YES [x] NO		

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QUALITY ASSURANCE:	OTHER:	OTHER:
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VARIANCE / FIELD CHANGE NOTICE

V/F No. 20.03.13.04-01

WBS NO.: 20.03.13.04 Project # 20402-PSP-0001 Rev 0

Page 1 of 1

PROJECT TITLE: PSP for Lead Delineation in the A2PI Firing Range

Date: 1/15/98

VARIANCE / FIELD CHANGE NOTICE (Include justification):

As stated in Section 2.5 of this PSP, selected archived splits of samples with total lead results greater than 200 mg/kg (ppm) may be analyzed by the Toxicity Characteristic Leaching Procedure (TCLP) to determine if the material possesses the toxicity characteristic. The following archives were submitted for TCLP lead analysis in accordance with SW846, Volume 1C, Section 8.4.

- A2PIPB-2-1-M-Y-V
- A2PIPB-10-2-M-Y-V
- A2PIPB-11-3-M-Y-V
- A2PIPB-12-1-M-Y-V
- A2PIPB-13-1-M-Y-V
- A2PIPB-13-3-M-Y-V
- A2PIPB-14-1-M-Y-V
- A2PIPB-10-1-M-Y-V
- A2PIPB-11-2-M-Y-V
- A2PIPB-11-4-M-Y-V
- A2PIPB-12-2-M-Y-V
- A2PIPB-13-2-M-Y-V
- A2PIPB-13-5-M-Y-V
- A2PIPB-14-2-M-Y-V

Justification

The above split samples exhibited a total lead concentration greater than 200 mg/kg (ppm). Per Section 2.5, these samples can be submitted for TCLP lead analysis.

REQUESTED BY: Mike Rolfes/Vicki Zimmerman *msr*

Date: January 15, 1998

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>Label Pwdg</i>	1-20-98	X	PROJECT MANAGER <i>Ann McClure</i>	1/15/98
	DATA QUALITY MANAGEMENT		X	DEEP SAMPLING & CHARACTERIZ. <i>Mike Rolfes</i>	1/20/98
X	ANALYTICAL CUSTOMER SUPPORT <i>Bill Westerman</i>		X	ASST. PROJECT MANAGER <i>Vicki L. Zimmerman</i>	1/15/98
	OTHER			OTHER	

VARIANCE/FCN APPROVED (X) YES ( ) NO

REVISION REQUIRED: ( ) YES (X) NO

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**TRANSMITTAL**  
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Date: 01/21/98

From: ECDC

FOLLOW INSTRUCTIONS BELOW  
**DISTRIBUTION OF VARIANCE 50.03.74.01-3**

Project	CWO	Document No	Rev	Title of Document	Comments
21000 VARIANCE		50.03.74.01-3	0	PSP-AREA 8 PHASE 1 PRE-CERT REAL TIME MEASUREMENTS	

As a controlled document holder, you are required to destroy any old revisions of this document. Sign and date below, verifying receipt of these documents. **Return this record of receipt to ECDC PROJECT DOCUMENT CONTROL, 52-7. Return receipt within ten (10) days of transmittal date.**

Signature

Date

**IF TERMINATION OR TRANSFER OCCURS, NOTIFY ECDC PROJECT DOCUMENT CONTROL AT  
4481**

VARIANCE / FIELD CHANGE NOTICE

V/F No. 60.03.74.01-3

PROJECT TITLE: PSP-Area 8. Phase 1, Pre-cert Real Time Measurements (Rev. 0)

Date: 1/19/97

VARIANCE / FIELD CHANGE NOTICE (Include justification): EDC # 2100-PSP-0001

Field Change Notice:

This variance provides for the collection of continuous background measurements of radon daughters by HPGe during data collection in Area 8, Phase I. The background radon daughters will be used to calculate radium-226 concentrations. These concentrations will, in turn, provide the basis for correction of A8P1 radium-226 measurements.

The background HPGe measurements will be:

- a - located in the vicinity in which data is being collected to represent the average radon condition of the area.
- b - can be put in a different location each day, if needed but once in place it must stay in place for the day.
- c - recorded during the same time in which RTRAK or HPGe data is being collected in the area.
- d - recorded using a dedicated HPGe system.
- e - recorded as one 15 minute read, every 15 minutes.
- f - will be located and sequentially identified by A8P1-Radon-X (X= 1,2,3 as appropriate) and will be indicated on the field logs indicating the acre to which it ties.
- g - located and surveyed using the same identification as (e).

**INFORMATION ONLY**

Justification:

The monitoring of "background radon" concentration will extend the data collection period by allowing for data collection prior to 11 AM. Work conducted in A2P1 indicated higher natural "background radon" readings prior to 11AM. This natural background contribution could result in inaccurate radium readings in relationship to the radium FRL, unless a correction is made. Currently the work process is to wait until after 11AM (after the morning radon has "burned off" to collect data; this restriction severely limits field productivity. Collecting the "background radon" readings will allow for a correction to be applied to the data to compensate for the background radon readings and provide corrected radium-226 readings.

REQUESTED BY: Joan White

Date: 1/20/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>Handwritten Signature</i>	1-20-98	X	PROJECT MANAGER <i>Handwritten Signature</i>	1/20/98
	DATA QUALITY MANAGEMENT		X	SCIENTIFIC MANAGER <i>Handwritten Signature</i>	1/20/98
	ANALYTICAL CUSTOMER SUPPORT		X	Real Time Manager <i>Handwritten Signature</i>	1/20/98
	OTHER		X	OTHER <i>Handwritten Signature</i>	1/20/98
VARIANCE/FCN APPROVED (X) (YES) ( ) (NO)			REVISION REQUIRED: ( ) (YES) (X) (NO)		

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PROJECT MANAGER:	DOCUMENT CONTROL: Michelle Tudor	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:
FIELD MANAGER:	OTHER:	OTHER: