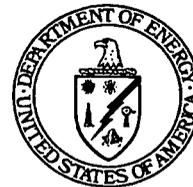


Department of Energy

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



JAN 29 1993

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-0386-99

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 transmits for your records, variances for Project Specific Plans (PSP) issued during the months of October through December 1998.

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

Sincerely,

Johnny W. Reising
 Fernald Remedial Action
 Project Manager

FEMP:Nickel

Enclosure

cc w/enclosure:
 T. Schneider, OEPA-Dayton (3 copies of enclosures)
 F. Barker, Tetra Tech
 AR Coordinator, FDF/78

cc w/o enclosure:
 EDC, FDF/52-7

JAN 29 1999

-2-

Mr. James A. Saric
Mr. Tom Schneider

bcc w/enclosure:
R. J. Janke, OH/FEMP
M. Davis, ANL

bcc w/o enclosure:
A. Tanner, OH/FEMP

VARIANCE / FIELD CHANGE NOTICE

V/FCN 20.03.13.06-7

WBS NO.: PROJECT/DOCUMENT 20.03.13.06, ECDC #20300-PSP-0004 Rev1.

Page 1 of 2

PROJECT TITLE: PSP for Excavation Characterization for Inactive Flyash Pile and SP5

Date: 9/30/98

VARIANCE / FIELD CHANGE NOTICE (Include justification):

1. Replace the word Spectrometry in the PSP to read Spectroscopy to better define the type of spectrometry.
2. Revise the "List of Acronyms and Abbreviations" on page iv (Change Page attached). Delete "FACT" (not applicable), change FEMP description to "Fernald Environmental Management Project", add "PWID Process Waste Identification and Disposition", change RTRAK/RSS description to "Real-Time Radiation Tracking System/Radiation Scanning System" and change WAO description to "Waste Acceptance Operations". Attached is a copy of the revised "List of Acronyms and Abbreviations". Please remove the previous list and replace with the attached change page.
3. On page 1-1, add "and associated areas" after Interceptor Ditch #1 in second line of first paragraph. This will include specific identified areas within the IFP such as Temporary Haul Road, Designed above-WAC excavation, etc.
4. On page 2-1, Section 2-1, after the sentence "An average elevation also will be generated for the excavation lift area.", add the following two sentences: "The average elevation will normally include only the horizontal areas of the lift. If the lift area includes sloped areas (e.g., Interceptor Ditch, Temporary Haul Road, etc.), the average elevation will include the slope grade." This will define what the average elevation includes.
5. Modify wording from V/F 20.03.13.06-3 concerning Section 2.3. Change the sentence "If the HPGe is deployed, use a 15 cm height with and acquisition time of 5 minutes." to "If the HPGe is deployed, use the most appropriate detector height for the applicable field of view with an acquisition time of 5 minutes." This provides for different physical configurations of excavated special material areas.

Justification:

1. Spectroscopy defines the type of spectrometry being used.
2. The "List of Acronyms and Abbreviations" required technical editing and updating.
3. This provides for specific identified areas within the IFP.
4. Average elevation requires better clarification.
5. Physical configurations of excavated special material areas may require different detector heights to provide adequate coverage.

ORIGINAL
INFORMATION
ONLY

REQUESTED BY: Mike Rolfes

DATE: 9/30/98

X IF REQD	VARIANCE/FAN APPROVAL	DATE	X IF REQD	VARIANCE/FAN APPROVAL	DATE
X	QUALITY ASSURANCE <i>[Signature]</i>	10-1-98	X	PROJECT MANAGER <i>[Signature]</i>	10/1/98
	DATA QUALITY MANAGEMENT		X	Real-time Program Mgr <i>[Signature]</i>	10/1/98
	ANALYTICAL CUSTOMER SUPPORT		X	Characterization User <i>[Signature]</i>	9/30/98
	OTHER		X	Surveying Lead <i>[Signature]</i>	10/1/98
VARIANCE/FCN APPROVED (X)YES ()NO			REVISION REQUIRED: ()YES (X)NO		
DISTRIBUTION					
PROJECT MANAGER:		DOCUMENT CONTROL: Jeannie Rosser		OTHER:	

LIST OF ACRONYMS AND ABBREVIATIONS

2022

A2PI	Area 2, Phase I
ASL	Analytical Support Level
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	Constituent of Concern
DQO	Data Quality Objective
FDF	Fluor Daniel Fernald
FEMP	Fernald Environmental Management Project
FRLs	final remediation levels
GPS	Global Positioning System
HPGe	High Purity Germanium detector
IRDP	Integrated Remedial Design Package
NaI	sodium iodide
OSDF	On-Site Disposal Facility
PPE	personal protective equipment
ppm	parts per million
PSP	Project Specific Plan
PWID	Project Waste Identification and Disposition
QA/QC	quality assurance/quality control
QA	Quality Assurance
RCTs	Radiological Control Technicians
RTIMP	Real-Time Instrumentation Measurement Program
RTRAK/RSS	Real-Time Radiation Tracking System/ Radiation Scanning System
RWP	Radiological Work Permit
SCEP	Soil Characterization and Excavation Project
SCQ	Sitewide CERCLA Quality Assurance Project Plan
SEP	Sitewide Excavation Plan
SP5	Stockpile 5
Tc-99	Technetium 99
VR/FCN	Variance Request/Field Change Notice
WAC	Waste Acceptance Criteria
WAO	Waste Acceptance Operations

VARIANCE / FIELD CHANGE NOTICE

V/FCN 20.03.13.06-10

WBS NO.: PROJECT/DOCUMENT 20.03.13.06, ECDC #20300-PSP-0004 Rev1.

Page 1 of 1

PROJECT TITLE: PSP for Excavation Characterization for Inactive Flyash Pile and SP5

Date: 10/14/98

VARIANCE / FIELD CHANGE NOTICE (Include justification):

Modify V/FCN 20.03.13.06-8 concerning Section 2.6, Item 4. Replace the lift area designation "B" with "C" for the West Section Impacted Material Stockpile.

Change:
Lift area = B = West Section Impacted Material Stockpile

To:
Lift area = C = West Section Impacted Material Stockpile

Justification:

The lift designation SF-B was used in Area 2, Phase 1 Site Preparation Areas Sampling Project Specific Plan, WBS# 20.03.13.01, 20401-PSP-0001. This lift designation change will avoid possible future confusion in the SED database.

INFORMATION
ONLY

REQUESTED BY: Mike Rolfes

DATE: 10/14/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>D. Lisk</i>	10-15-98	X	PROJECT MANAGER <i>Thomas C. G.H.</i>	10-15-98
	DATA QUALITY MANAGEMENT		X	Real-time Project <i>James L. G.H.</i>	10/15/98
	ANALYTICAL CUSTOMER SUPPORT		X	Characterization <i>Barbara G.H.</i>	10/15/98
	CONSTRUCTION		X	WAP <i>Arden Bunker</i>	10/15/98

VARIANCE/FCN APPROVED [X]YES []NO

REVISION REQUIRED: []YES [x]NO

DISTRIBUTION

MANAGER:	DOCUMENT CONTROL: <i>Jeanne Rosser</i>	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:

VARIANCE / FIELD CHANGE NOTICE

V/FCN 20.03.13.06-11

WBS NO.: PROJECT/DOCUMENT 20.03.13.06, ECDC #20300-PSP-0004 Rev1.

Page 1 of 1

PROJECT TITLE: PSP for Excavation Characterization for Inactive Flyash Pile and SP5

Date: 10/20/98

VARIANCE / FIELD CHANGE NOTICE (Include justification):

1. Add "AFP - Active Flyash Pile" to "List of Acronyms and Abbreviations" on page iii.
2. Add the following sentence after the first sentence in section 1.0 INTRODUCTION, first paragraph, page 1-1. "Data will also be collected for the excavation of the Active Flyash Pile (AFP)." This is prior to the sentence added by V/FCN 20.03.13.06-8 concerning addition of the South Field Material Stockpile.
3. Add the following sentences after the second sentence (and the sentences added with V/FCN 20.03.13.06-8) in section 1.1 OBJECTIVES, page 1-1. "Due to prior characterization, excavation of the Active Flyash Pile will not require gamma measurements after each lift (per agreement with EPA). If visual observations or radiological surveys raise any potential above WAC radiological concerns, that particular area will be treated as a special materials area and measured with the appropriate real-time instrumentation (see Section 2.3 - including V/FCN 20.03.13.06-3 - for additional details)."

INFORMATION ONLY

4. Modify V/FCN 20.03.13.06-3, Item 2, Excavation Area:

Change:

Excavation Area = Inactive Flyash Pile (IFP) or Soil Pile (SP5)

To:

Excavation Area = Inactive Flyash Pile (IFP), Soil Pile (SP5) or Active Flyash Pile (AFP)

Justification:

1. Updates the "List of Acronyms and Abbreviations".
2. Provides for excavation of the Active Flyash Pile.
3. Describes the scope of the excavation of the Active Flyash Pile.
4. Adds an excavation area designation for special material gamma measurements in the Active Flyash Pile.

ORIGINAL

REQUESTED BY: Mike Rolfes

DATE: 10/20/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>R Justice</i>	11-5-98	X	PROJECT MANAGER <i>Thomas C. Galt</i>	11-5-98
	DATA QUALITY MANAGEMENT		X	Real-time Program <i>Michael J. Rolfes</i>	11/3/98
	ANALYTICAL CUSTOMER SUPPORT		X	Characterization Lead <i>Michael J. Rolfes</i>	11/3/98
	CONSTRUCTION		X	WAO <i>James L. Babin</i>	11/3/98

VARIANCE/FCN APPROVED YES NO

REVISION REQUIRED: YES NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: <u>Jeanne Rosser</u>	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:

VARIANCE / FIELD CHANGE NOTICE

V/FCN 20.03.13.06-12

WBS NO.: PROJECT/DOCUMENT 20.03.13.06, ECDC #20300-PSP-0004 Rev1.

Page 1 of 1

PROJECT TITLE: PSP for Excavation Characterization for Inactive Flyash Pile and SP5

Date: 11/16/98

VARIANCE / FIELD CHANGE NOTICE (Include Justification):

Section 2.8 (Miscellaneous Field Sampling) Variance/Field Change Notice (V/FCN) 20.03.13.06-06 requires documentation of the following field sampling.

The Inactive Flyash Pile (IFP) was excavated to final grade and the final lift footprint was scanned with the RTRAK. Per V/FCN 50.03.49-6 to the *Determination of Optimal RTRAK Speed and Acquisition PSP*, three ranges of total activity data will be identified from this lift scan and further scanned with HPGe measurements. At the location of the three highest RTRAK readings, a boring may be taken to a three-foot depth using a Geoprobe or other Geoprobe equipment. The location for these borings will be determined in the field by the Characterization Lead or designee and identified with a northing, easting, and elevation coordinate. The sampling team will label the sleeves to identify each six-inch interval collected. The plastic sleeve, three-foot core will be wiped down and radiologically monitored out of the controlled area and transferred to the Real-Time Instrumentation Monitoring Program (RTIMP) Lead or designee for counting using the HPGe core counter. Each six inch interval will be measured for total uranium activity on the HPGe core counter with a 15 minute data acquisition time. A conservative default moisture of 20% will be used. The identification numbering scheme for the borings is as follows:

IFP-CC-boring number-interval number-G(-D)

Where:

IFP = Inactive Flyash Pile

CC = Core Counter

Boring Number = sequential number of location (either 1, 2, or 3)

Interval Number = 1-6 (1 = 0-0.5 ft, 2 = 0.5-1 ft, 3 = 1-1.5 ft, 4 = 1.5-2 ft, 5 = 2-2.5 ft, and 6 = 2.5-3 ft)

G = gamma measurement

(-D) = duplicate measurement

INFORMATION ONLY

The borehole will be plugged using granular or pelletized bentonite and water for hydration. If borehole collapse occurs, no bentonite will be necessary.

This data will be used as screening information only in order to assist in determining the depth for potential further excavation. Based on results of the scanning, the Characterization Lead or designee will determine the need for laboratory analysis of the cores to verify final design excavation limits.

Justification:

1. Section 2.8 allows for the collection of physical samples.

2. The core counter data from this physical sampling will be used for screening purposes only and not used for final WAC determination.

REQUESTED BY: Mike Rolfes

DATE: 11/16/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
	QUALITY ASSURANCE <i>R. J. J...</i>	11-16-98	X	PROJECT MANAGER <i>[Signature]</i>	11-16-98
	DATA QUALITY MANAGEMENT		X	Real-time Program Mgr <i>[Signature]</i>	11/16/98
	ANALYTICAL CUSTOMER SUPPORT		X	Characterization Lead <i>[Signature]</i>	11/16/98
X	Sampling Team Manager <i>[Signature]</i>	11/16/98	X	WAO <i>[Signature]</i>	11/16/98
VARIANCE/FCN APPROVED [X]YES []NO			REVISION REQUIRED: []YES [x]NO		

VARIANCE / FIELD CHANGE NOTICE

V/FCN 20.03.13.06-13

WBS NO.: PROJECT/DOCUMENT 20.03.13.06, ECDC #20300-PSP-0004 Rev1.

Page 1 of 1

PROJECT TITLE: PSP for Excavation Characterization for Inactive Flyash Pile and SP5

Date: 11/19/98

VARIANCE / FIELD CHANGE NOTICE (Include justification):

Item 1: Per Variance/Field Change Notice (V/FCN) 20.03.13.06-6 (Section 2.8 - "Miscellaneous Field Sampling"), when a physical sample is taken, the sampling event must be documented in a V/FCN. This variance documents the collection of a sample taken in the Active Flyash Pile (AFP).

At the request of FDF management, one grab sample was taken from the northern end of the Active Flyash Pile (approximately 477333 Northing, 1348591 Easting, and 583 MSL elevation). This sample was comprised of flyash and concrete debris that exhibited elevated beta/gamma activity. The beta/gamma activity in this area ranged from 600,000 dpm to 1.5 million dpm. The concrete debris had patches of yellow discoloring (possibly yellowcake) and some of the flyash had a greenish coloring (potentially greensalt). The sample was analyzed for total and isotopic uranium by the ICP-MS method (FEMP procedure #5502). The sample numbering identification was AFP-Debris-1-R.

INFORMATION ONLY

Item 1 Justification:

1. Section 2.8 (Miscellaneous Field Sampling) allows for the collection of physical samples.
2. The data from this physical sampling will be used to supplement the data acquired from real-time in situ gamma spectroscopy.

ORIGINAL

REQUESTED BY: Mike Rolfes

DATE: 11/19/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>D. Finkle</i>	11-19-98	X	PROJECT MANAGER <i>John P. Corton</i>	11/19/98
	DATA QUALITY MANAGEMENT			Real-time Program Mgr	
X	ANALYTICAL CUSTOMER SUPPORT <i>Bill Whistman</i>	11/19/98	X	Characterization Lead <i>John P. Corton</i>	11/19/98
	CONSTRUCTION		X	WAO <i>Linda Emblow</i>	11/19/98

VARIANCE/FCN APPROVED [X]YES []NO

REVISION REQUIRED: []YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:

VARIANCE / FIELD CHANGE NOTICE

V/FCN 20.03.13.06-14

WBS NO.: PROJECT/DOCUMENT 20.03.13.06, ECDC #20300-PSP-0004 Rev1.

Page 1 of 3

PROJECT TITLE: PSP for Excavation Characterization for Inactive Flyash Pile and SP5

Date: 11/19/98

VARIANCE / FIELD CHANGE NOTICE (Include justification)

Item 1: In conjunction with Variance/Field Change Notice (V/FCN) 20.03.13.06-12, submit the following core intervals to the on-site laboratory for a dry weight total uranium analysis using gamma spec methodology at ASL B. The soil core will be placed into a 500 ml sample container. The lab sample identification is as follows:

Boring/Core ID	Core Intervals	Lab Sample ID	Description
IFP-CC-1	IFP-CC-1-1	IFP-CC-1-1-R	0-0.5 ft interval
IFP-CC-1	IFP-CC-1-2	IFP-CC-1-2-R	0.5-1 ft interval
IFP-CC-2	IFP-CC-2-1	IFP-CC-2-1-R	0-0.5 ft interval
IFP-CC-2	IFP-CC-2-2	IFP-CC-2-2-R	0.5-1 ft interval
IFP-CC-3	IFP-CC-3-1	IFP-CC-3-1-R	Sand only from 0-0.5 ft interval
IFP-CC-3	IFP-CC-3-1	IFP-CC-3-1A-R	Remainder of 0-0.5 ft interval
IFP-CC-3	IFP-CC-3-2	IFP-CC-3-2-R	0.5-1 ft interval
IFP-CC-3	IFP-CC-3-3	IFP-CC-3-3-R	1-1.5 ft interval
IFP-CC-3	IFP-CC-3-4	IFP-CC-3-4-R	1.5-2 ft interval
IFP-CC-3	IFP-CC-3-5	IFP-CC-3-5-R	2-2.5 ft interval
IFP-CC-3	IFP-CC-3-6	IFP-CC-3-6-R	2.5-3 ft interval

INFORMATION ONLY

Item 1 Justification:

Data from the core counter scanning warrants the need for confirmation with analytical data. The analytical data will be used to assess the depths of final excavation limits.

Item 2: Per Variance/Field Change Notice (V/FCN) 20.03.13.06-12, a boring was taken to a three-foot depth at the location of the three highest RTRAK readings. The cores from these borings were radiologically scanned with an HPGe core counter. Based on these results, eleven more boring locations were identified for additional core counting and laboratory analysis. The identification, location, and proposed minimum depth of these borings are listed below.

Boring ID	Location (Northing/Easting)	Proposed Minimum Depth (ft)
IFP-CC-4	478176.1 1347504.0	6
IFP-CC-5	478143.7 1347453.6	6
IFP-CC-6	478122.6 1347500.1	6
IFP-CC-7	478042.2 1347437.0	6
IFP-CC-8	477992.7 1347559.6	6
IFP-CC-9	477946.2 1347521.4	6
IFP-CC-10	477895.4 1347607.2	6
IFP-CC-11	477779.8 1347630.6	3
IFP-CC-12	477800.6 1347709.1	3
IFP-CC-13	477747.9 1347681.2	3
IFP-CC-14	477715.1 1347677.8	3

ORIGINAL

The depth interval identification for each core is as follows:

0-0.5 ft = 1	0.5-1 = 2	1-1.5 = 3	1.5-2 = 4
2-2.5 ft = 5	2.5-3 = 6	3-3.5 = 7	3.5-4 = 8
4-4.5 ft = 9	4.5-5 = 10	5-5.5 = 11	5.5-6 = 12

A surface HPGe reading will be taken at each location at a six inch detector height for a 15 minute data acquisition time. The percent moisture at each location will be measured using a Zeltex moisture meter or a Troxler moisture gauge. The identification

pg 2 of 3
V/FCN 20.03.13-14
MSR

numbering scheme for these measurements is:

IFP-CONF-boring number-interval number-G(-D)

Where:

- IFP = Inactive Flyash Pile
- CONF = Surface Confirmation HPGe measurements
- Boring Number = sequential number of location (4-14)
- G = gamma measurement
- (-D) = duplicate measurement *if applicable*

Borings will be taken using a Geoprobe or Geoprobe equipment to the specified minimum depth. If the boring has not advanced into the aquifer, then continue boring until the aquifer is reached or a maximum of 10 feet (using a continuance of the depth interval identification numbering scheme). The lithology of three borings (IFP-CC-6, IFP-CC-10, and IFP-CC-13) needs to be described in detail. This will be used as a representation of the northern, central and southeastern sections of the IFP. Only a general lithological description on the Field Activity Log of the other borings is required to determine if aquifer material is encountered (i.e. percent sand, silt, clay and soil type) .

The borehole will be plugged using granular or pelletized bentonite and water for hydration. If borehole collapse occurs, no bentonite will be necessary. Borehole abandonment will be documented on a Borehole Abandonment Log.

The plastic sleeves will be wiped down and radiologically monitored (with any elevated readings noted on the plastic sleeves) before removing from the controlled area. The samples will be transferred from the sampling team to the Real-Time Instrumentation Monitoring Program (RTIMP) Lead or designee for counting using the HPGe core counter. Each six inch interval from surface to 3 foot depth will be measured for total uranium activity with a 15 minute data acquisition time. The Characterization and RTIMP Leads will assess the data and determine if further core counting is required for cores greater than three foot in depth. The identification numbering scheme for the cores is as follows:

IFP-CC-boring number-interval number-G(-D)

Where:

- IFP = Inactive Flyash Pile
- CC = Core Counter
- Boring Number = sequential number of location (either 1, 2, or 3)
- Interval Number = 1-12 (depending on depth of boring)
- G = gamma measurement
- (-D) = duplicate measurement *if applicable*

After each core is counted, the RTIMP Lead or designee will notify the Characterization Lead or designee to determine the intervals to be submitted for analysis. The core counting data will be used as screening information only in order to assist in determining the depth for potential further excavation.

The sample intervals identified for analytical data will be containerized (using 500 ml glass or plastic containers) by the sampling team and submitted for total uranium analysis by gamma spec methodology at ASL B (with MDC < 10 ppm). The lab sample identification will consist of adding the suffix "-R" instead of a "-G" to the above numbering scheme. The intervals submitted for analytical will be documented in a subsequent V/FCN.

Item 2 Justification:

Section 2.8 allows for the collection of physical samples. The core counter data from this physical sampling will be used for screening purposes only and not used for final WAC determination.

IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>D. Mabe</i>	11-19-98	X	PROJECT MANAGER <i>H. G. Ch...</i>	11/19/98
	DATA QUALITY MANAGEMENT		X	Real-time Program Mgr <i>[Signature]</i>	11/19/98
X	ANALYTICAL CUSTOMER SUPPORT <i>Bill Whitman</i>	11/19/98	X	Characterization Lead <i>[Signature]</i>	11/19/98
X	SAMPLING TEAM MANAGER <i>[Signature]</i>	11-19-98		WAO	

VARIANCE/FCN APPROVED [X]YES []NO REVISION REQUIRED: []YES [x]NO

DISTRIBUTION

PROJECT MANAGER:	DOCUMENT CONTROL: Jeannie Rosser	OTHER:
QUALITY ASSURANCE:	OTHER:	OTHER:

VARIANCE / FIELD CHANGE NOTICE

V/FCN 20.03.13.06-15

WBS NO.: PROJECT/DOCUMENT 20.03.13.06, ECDC #20300-PSP-0004 Rev1.

Page 1 of 1

JECT TITLE: PSP for Excavation Characterization for Inactive Flyash Pile and SP5

Date: 11/30/98

VARIANCE / FIELD CHANGE NOTICE (Include Justification):

Submit the following core intervals to the on-site laboratory for a dry weight total uranium analysis using gamma spec methodology and ICP/MS at ASL B. The soil core will be placed into a 500-ml sample container and identified as follows:

Boring/Core ID	Core Intervals	Lab Sample ID	Description
IFP-CC-4	IFP-CC-4-4	IFP-CC-4-4-R	1.5-2 ft interval
IFP-CC-4	IFP-CC-4-5	IFP-CC-4-5-R	2-2.5 ft interval
IFP-CC-4	IFP-CC-4-7	IFP-CC-4-7-R	3-3.5 ft interval
IFP-CC-5	IFP-CC-5-1	IFP-CC-5-1-R	0-0.5 ft interval
IFP-CC-5	IFP-CC-5-4	IFP-CC-5-4-R	1.5-2 ft interval
IFP-CC-6	IFP-CC-6-2	IFP-CC-6-2-R	0.5-1 ft interval
IFP-CC-6	IFP-CC-6-3	IFP-CC-6-3-R	1-1.5 ft interval
IFP-CC-6	IFP-CC-6-4	IFP-CC-6-4-R	1.5-2 ft interval
IFP-CC-7	IFP-CC-7-1	IFP-CC-7-1-R	0-0.5 ft interval
IFP-CC-7	IFP-CC-7-4	IFP-CC-7-4-R	1.5-2 ft interval
IFP-CC-8	IFP-CC-8-1	IFP-CC-8-1-R	0-0.5 ft interval
IFP-CC-8	IFP-CC-8-4	IFP-CC-8-4-R	1.5-2 ft interval
IFP-CC-9	IFP-CC-9-1	IFP-CC-9-1-R	0-0.5 ft interval
IFP-CC-9	IFP-CC-9-4	IFP-CC-9-4-R	1.5-2 ft interval
IFP-CC-10	IFP-CC-10-1	IFP-CC-10-1-R	0-0.5 ft interval
IFP-CC-10	IFP-CC-10-4	IFP-CC-10-4-R	1.5-2 ft interval
IFP-CC-11	IFP-CC-11-1	IFP-CC-11-1-R	0-0.5 ft interval
IFP-CC-11	IFP-CC-11-4	IFP-CC-11-4-R	1.5-2 ft interval
IFP-CC-12	IFP-CC-12-1	IFP-CC-12-1-R	0-0.5 ft interval
IFP-CC-12	IFP-CC-12-4	IFP-CC-12-4-R	1.5-2 ft interval
IFP-CC-13	IFP-CC-13-1	IFP-CC-13-1-R	0-0.5 ft interval
IFP-CC-13	IFP-CC-13-5	IFP-CC-13-5-R	2-2.5 ft interval
IFP-CC-13	IFP-CC-13-6	IFP-CC-13-6-R	2.5-3 ft interval
IFP-CC-14	IFP-CC-14-1	IFP-CC-14-1-R	0-0.5 ft interval
IFP-CC-14	IFP-CC-14-4	IFP-CC-14-4-R	1.5-2 ft interval
IFP-CC-14	IFP-CC-14-9	IFP-CC-14-9-R	4-4.5 ft interval
IFP-CC-14	IFP-CC-14-15	IFP-CC-14-15-R	7-7.5 ft interval

INFORMATION ONLY

Justification

Per Variance/Field Change Notice (V/FCN) 20.03.13.06-14, the Characterization Lead or designee will determine core intervals for lab analysis based on the core counter data.

REQUESTED BY: Mike Rolfes

DATE: 11/30/98

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>[Signature]</i>	11-30-98	X	PROJECT MANAGER <i>[Signature]</i>	11-30-98
	DATA QUALITY MANAGEMENT		X	Real-time Program Mgr <i>[Signature]</i>	11/30/98
X	ANALYTICAL CUSTOMER SUPPORT <i>[Signature]</i>	11/30/98	X	Characterization Lead <i>[Signature]</i>	11/30/98
X	Sampling Team Manager <i>[Signature]</i>	11/30/98		WAO	

VARIANCE/FCN APPROVED YES NO

REVISION REQUIRED: YES NO

DISTRIBUTION

PROJECT MANAGER:

DOCUMENT CONTROL: Jeanne Rosser

OTHER:

12

VARIANCE / FIELD CHANGE NOTICE

V/F 21100-PSP-0001-1

WBS NO.: 21100-PSP-0001

Page 1 of 2

PROJECT TITLE: PSP for Area 8, Phase II and the Area 6 Triangle Area Precertification
Real-Time Scan (21100-PSP-0001) **REV.0**

Date: 12/8/98

VARIANCE / FIELD CHANGE NOTICE (Include justification):

Field Change Notice:

This V/FCN serves two purposes:

- 1) Per Section 2.4 of the PSP, this V/FCN documents the numbered acres that have been delineated in A8P11 and the Triangle Area (see attached Figure 2-2).
- 2) The radon measurements will be numbered as follows:
Area-Precertification Phase-Purpose-Height-Reading #, where:
 Area = "A8P2" or "A6TA"
 Precertification Phase = "P1" or "P2"
 Purpose = "Radon"
 Height = "1" = 15 cm, "2" = 31 cm, "3" = 1 meter
 Reading # = Sequential number
 For example, the third sequential radon measurement, obtained during Precertification Phase I from the Triangle area at the 31 cm height would be numbered as: **A6TA-P1-Radon-2-3**.

EGDC CONTROLLED COPY NO.

10459

Justification:

acre delineation is necessary to guide the real-time data collection approach and to verify the Phase 1 readings. The radon numbering system was not identified in the PSP, and is necessary to tie the readings back to the appropriate real-time measurements.

REQUESTED BY: Eric Kroger Date: 12/8/98

X IF	VARIANCE/FCN APPROVAL	DATE	X IF	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>D. Mike</i>	<i>12-8-98</i>	X	PROJECT MANAGER <i>W. E. Wood</i>	<i>12/8/98</i>
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION LEAD <i>Eric Kroger</i>	<i>12/8/98</i>
	ANALYTICAL CUSTOMER SUPPORT			REAL-TIME PROGRAM MANAGER	
	OTHER			OTHER	

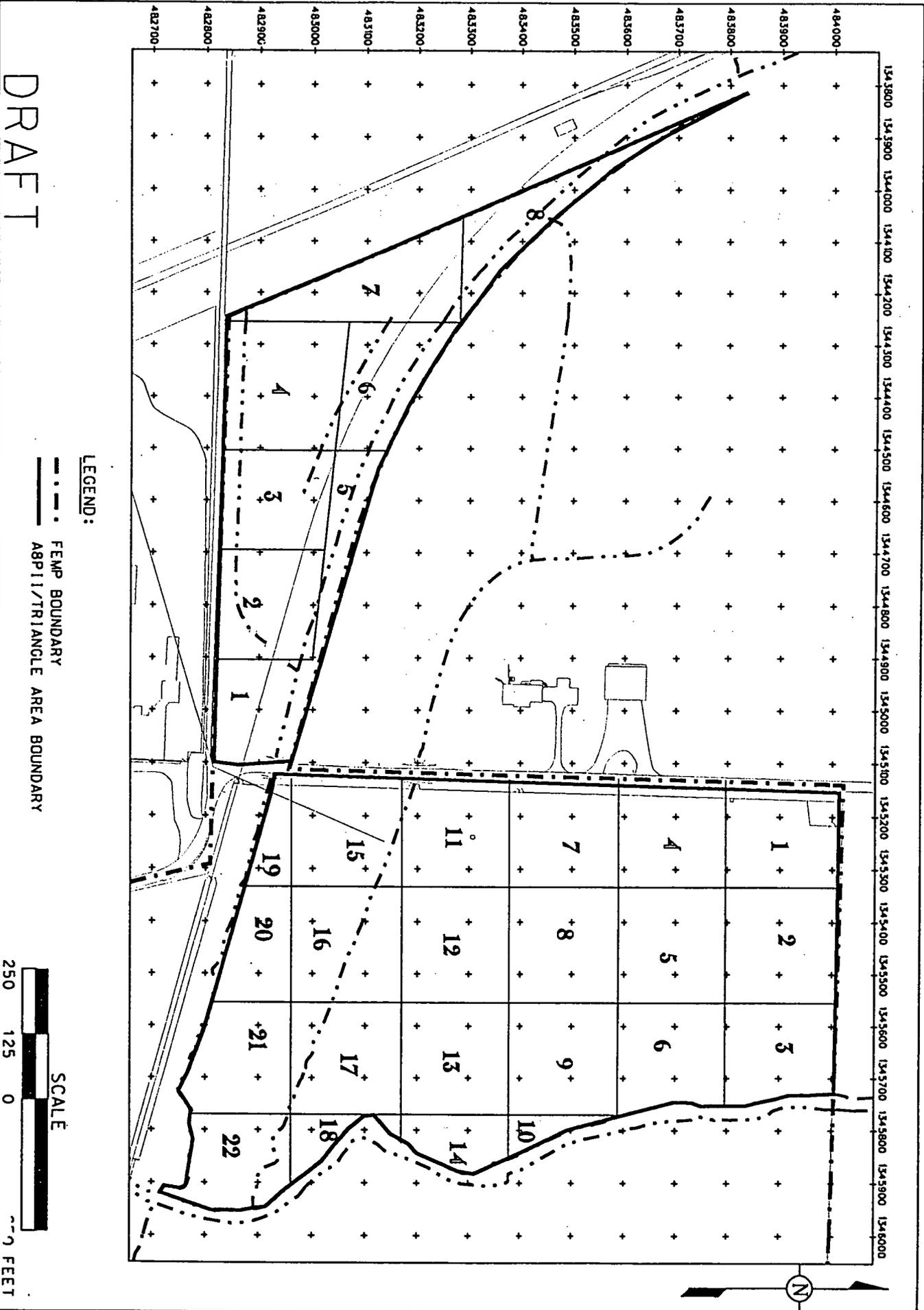
VARIANCE/FCN APPROVED YES NO

REVISION REQUIRED: YES NO

DISTRIBUTION

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

ORIGINAL



DRAFT

FIGURE 2-2. ACRES IDENTIFIE OR THE PRE-CERTIFICATION PHASE I SCAN

Handwritten marks: 'H' and '3'

VARIANCE / FIELD CHANGE NOTICE

V/F 21100-PSP-0001-2

WBS NO.: 21100-PSP-0001

Page 1 of 1

JECT TITLE: PSP for Area 8, Phase II and the Area 6 Triangle Area Precertification
Real-Time Scan (21100-PSP-0001)

Date: 12/16/98

VARIANCE / FIELD CHANGE NOTICE (Include justification):

Field Change Notice:

The PSP states that when the HPGe detector is necessary to obtain Phase I readings in areas that are inaccessible to the NaI detectors, these readings will be collected at a detector height of 1-meter. Because many of the readings must be obtained along Paddys Run, a 1-meter detector height will result in much of the stream falling within the detector field of view. Therefore, at the discretion of the Real-Time Program Manager, these readings may be obtained at the 31-centimeter detector height to keep Paddys Run (or any other areas of standing water) out of the detector field of view. All other reading parameters (i.e., 15-minute count time and 90.6% coverage option) will remain as specified in the PSP.

The following Phase I readings were obtained at the 31-cm height to avoid standing water:

A8P2-P1-6-2-G, A8P2-P1-6-3-G, A8P2-P1-6-4-G, A8P2-P1-6-5-G

ECDC CONTROLLED

COPY NO. 10459

Justification:

Standing water (such as Paddys Run) will prevent the Real-Time gamma detectors from obtaining accurate readings, so these areas should be avoided during scanning.

REQUESTED BY: Darren Wesel

Date: 12/14/98

X IF	VARIANCE/FCN APPROVAL	DATE	X IF	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>D. Wesel</i>	12-16-98	X	PROJECT MANAGER <i>W. E. E. E. E.</i>	12/16/98
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION LEAD <i>Eric Kroger</i>	12/16/98
	ANALYTICAL CUSTOMER SUPPORT		X	REAL-TIME PROGRAM MANAGER <i>D. Wesel</i>	12/16/98
	OTHER			OTHER	

VARIANCE/FCN APPROVED YES NO

REVISION REQUIRED: YES NO

DISTRIBUTION

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

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