



Department of Energy
Office of Legacy Management

May 27, 2010

Ms. Eleanor Thornton
U. S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Mailstop 6608J
Washington, DC 20460

Dear Ms. Thornton:

**Subject: 2009 NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR
POLLUTANTS ANNUAL REPORT FOR THE FERNALD PRESERVE**

Reference: United States Environmental Protection Agency letter, Jack Barnett to Johnny Reising, "Application for Approval to Use Environmental Measurements to Demonstrate Compliance with the National Emission Standards for Hazardous Air Pollutants, Subpart H," dated August 11, 1997

This letter transmits the 2009 National Emissions Standards for Hazardous Air Pollutants (NESHAP) Subpart H Annual Report for the Fernald Preserve to the United States Environment Protection Agency (USEPA). This documents fulfills the annual reporting requirements of 40 CFR 61.94(a) for the Fernald Preserve. Furthermore, as committed to in Attachment D of the 2009 Fernald Preserve Legacy Management and Institutional Controls Plan (i.e., Integrated Environmental Monitoring Plan [IEMP]), the 2009 NESHAP Annual Report has been included as Appendix D of the Site Environmental Report (SER) for calendar year 2009 and will be available to Fernald Preserve stakeholders through distribution of the SER in June 2010.

The 2009 report marks the eleventh consecutive year that Fernald Preserve has used an alternate, monitoring-based approach for demonstrating compliance with the NESHAP Subpart H requirements. Prior to 1998, annual reports used emission estimates and computer modeling to demonstrate compliance. The alternate approach, which relies on measurements of airborne radiological air particulate concentrations for calculating a maximum effective dose equivalent at the Fernald Preserve boundary, was approved by the USEPA in the referenced letter and is detailed in Chapter 5 of the IEMP.

Based on 2009 radiological air particulate monitoring data, the maximum effective dose equivalent at the Fernald Preserve boundary due to the air inhalation pathway was calculated to be 0.034 millirem (mrem) above background at a monitoring location along the eastern boundary of the site. This is in compliance with the NESHAP Subpart H standard of 10 mrem.

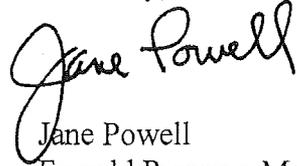
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| 1000 Independence Ave., S.W., Washington, DC 20585 | <input type="checkbox"/> | 11025 Dover St., Suite 1000, Westminster, CO 800 |
| 10995 Hamilton-Cleaves Highway, Harrison, OH 45030 | <input type="checkbox"/> | 955 Mound Road, Miamisburg, OH 453 |
| 232 Energy Way, N. Las Vegas, NV 89030 | <input type="checkbox"/> | |
| REPLY TO: Harrison Office | | |

Ms. Eleanor Thornton

Page 2

If you have any questions, please call me (513) 648-3148.

Sincerely,

A handwritten signature in black ink that reads "Jane Powell". The signature is written in a cursive style with a large initial "J".

Jane Powell
Fernald Preserve Manager
DOE-LM-20.1

Enclosure

cc w/enclosure:

R. Abitz, Geochemical Consulting Services, LLC

B. Hertel, Stoller

F. Johnston, Stoller

G. Lupton, Stoller

G. Vazquez, DOE, EH-232

Project File 140.10(A) (Thru W. Sumner)

Administrative Records (Thru W. Sumner)

cc w/o enclosure:

M. Murphy, USEPA, Region 5

T. Pauling, DOE-LM

P. J. Sturdevant, HCDES

Fernald Preserve

**2009 National Emissions
Standards for Hazardous Air
Pollutants (NESHAP)
Annual Report**

May 2010



U.S. DEPARTMENT OF

ENERGY

Legacy

Management

Fernald Preserve

**2009 National Emissions Standards
for Hazardous Air Pollutants (NESHAP)
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Abbreviations

| | |
|----------------------|--|
| AMS | air monitoring station |
| CFR | <i>Code of Federal Regulations</i> |
| cm | centimeter |
| CY | calendar year |
| DOE | U.S. Department of Energy |
| EPA | U.S. Environmental Protection Agency |
| FCP | Fernald Closure Project |
| ft ³ /min | cubic feet per minute |
| km | kilometer |
| m ³ /min | cubic meters per minute |
| mrem/yr | millirem per year |
| mSv/yr | millisieverts per year |
| NESHAP | National Emission Standards for Hazardous Air Pollutants |
| pCi/L | picocuries per liter |
| pCi/m ³ | picocuries per cubic meter |

Introduction

On May 23, 1997, the U.S. Department of Energy (DOE) Fernald Closure Project (FCP) submitted a written request to the U.S. Environmental Protection Agency (EPA) for approval to use an alternate approach for demonstrating compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart H requirements (DOE 1997). The alternate approach uses environmental measurements of airborne radionuclide concentrations (as provided for under Title 40, *Code of Federal Regulations*, Part 61.93[b][5]), rather than air dispersion modeling, to demonstrate that radionuclide emissions resulting from operations at the former FCP were below the annual NESHAP Subpart H standard. The request for approval of the alternative approach was driven by the recognition that the dominant sources of radiological emissions at the Fernald site had changed as the mission of the site changed from uranium metal production (which ended in 1989) to environmental remediation (which ended in 2006 for all projects except aquifer restoration). During production, the primary emission sources from the facility were point sources (stacks and vents), and during environmental remediation, the dominant sources were fugitive emissions from large-scale excavations, wind erosion from stockpiled materials, and decontamination and dismantling activities. Presently, the Fernald Preserve is a wildlife preserve, and the dominant emission source is soil.

Because there was a high degree of uncertainty associated with modeling fugitive emissions during the environmental remediation activities, environmental measurements were proposed as an alternative to provide a more accurate assessment of the site's emissions. On August 11, 1997, EPA granted approval to use environmental measurements as an alternative methodology for demonstrating NESHAP compliance (EPA 1997). The FCP began using environmental measurements for NESHAP compliance purposes in 1998.

This 2009 NESHAP represents the last NESHAP report submitted for Fernald. In June 2009, USEPA determined that NESHAP reporting was no longer required given that three years of reporting following site closure will have been completed with the 2009 report and the emissions from the Fernald Preserve are becoming indistinguishable from background. Further, future site operations and activities will not fundamentally affect air emissions in the future.

Summary

For calendar year 2009, the maximum effective dose equivalent from emissions of radionuclides to the ambient air is estimated to be 0.034 millirem per year (mrem/yr) (0.00034 millisievert per year [mSv/yr]) above background, which is in compliance with the Subpart H standard of less than 10 mrem/yr (0.1 mSv/yr) above background. This estimate is based on the Fernald Preserve's radiological air particulate monitoring program, which consists of five high-volume air monitoring stations operated at the Fernald Preserve boundary and one background location.

1.0 Facility Information

1.1 Site Description

The Fernald Preserve is located on a 1,050-acre (425-hectare) area approximately 18 miles (29 kilometers [km]) northwest of downtown Cincinnati, Ohio, just north of the small farming community of Fernald, Ohio (Figure 1). A former production area covered approximately 136 acres (55 hectares) in the center of the Fernald Preserve, which is located outside of the 500-year flood plain of the Great Miami River in an ancestral river valley known as the New Haven Trough. The area immediately surrounding the Fernald Preserve is rural and is characterized by the predominance of agriculture, with some light industry and private residences.

The climate is characterized as continental to subtropical, with average temperatures ranging from approximately 31 °F (-0.7 °C) in December to 76 °F (25 °C) in July. Average annual precipitation is approximately 40 inches (102 centimeters [cm]). Prevailing wind flow is from the southwest (Figure 2).

For 37 years the former Feed Materials Production Center produced uranium metal products for DOE and its predecessors. On July 10, 1989, uranium metal production was suspended, and management responsibilities at the Fernald site were transferred from the Defense Programs to the U.S. Department of Energy (DOE) Office of Environmental Restoration and Waste Management.

Remedial action activities at the Fernald site were conducted under the Comprehensive Environmental Response, Compensation, and Liability Act. These activities included sample analysis; waste characterization; the management, treatment, storage, and disposal of hazardous, mixed, low-level and solid wastes; the decontamination and demolition of radioactively contaminated equipment and buildings; and cleanup of the contaminated soil and groundwater. The site also managed containerized thorium wastes and the K-65 Silos waste material, which contained radium. All remedial actions, with the exception of groundwater restoration, were completed in October 2006.

1.2 Source Descriptions

For calendar year (CY) 2009, wind erosion of soil is the only potential radionuclide emission source at the Fernald Preserve. The primary radioactive airborne contaminants at the Fernald Preserve consist of radium, thorium, and uranium isotopes that are present in soil at concentrations below the Operable Unit 5 final remediation levels. Additional radioactive isotopes in the soil consist of daughter products from the uranium (U-235 and U-238) and thorium decay chains.

1.3 Radiological Air Particulate Monitoring Program Description

The Fernald Preserve's radiological air monitoring program for CY 2009 is defined in Attachment D (Integrated Environmental Monitoring Plan) of the 2008 *Comprehensive Legacy Management and Institutional Controls Plan* (DOE 2009). The program design applicable to air monitoring, as approved by the U.S. Environmental Protection Agency (EPA), is summarized in the following subsections.

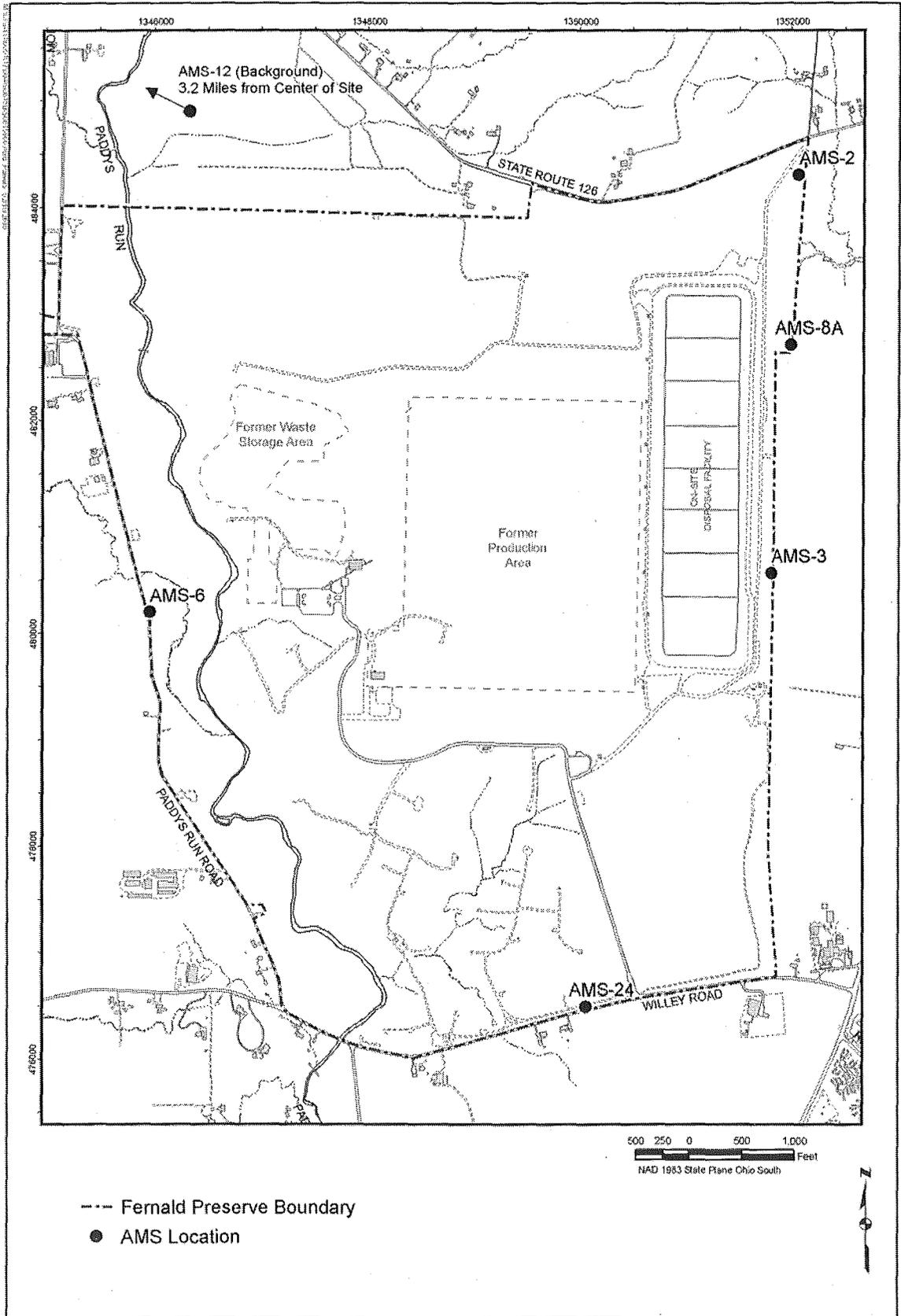


Figure 1. Radiological Air Monitoring Locations

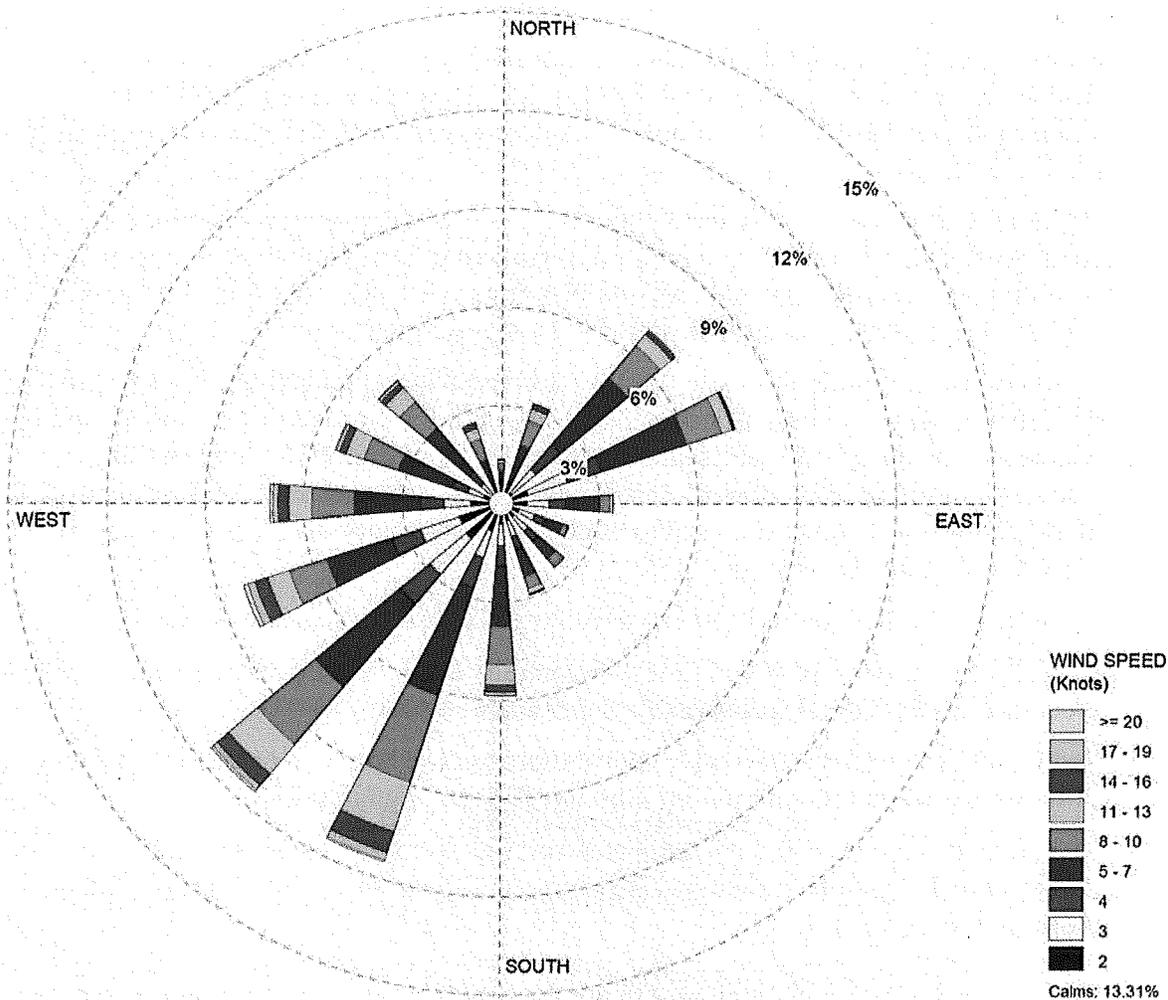


Figure 2. Five-Year Average (2002–2006) Wind Rose, 33-ft (10-m) Height

1.3.1 Monitoring Equipment and Locations

Six high-volume air-monitoring stations (AMSs) (Figure 1) draw air continuously through an 8-inch by 10-inch filter at a rate of 40 to 50 cubic feet per minute (ft^3/min) (1.13 to 1.42 cubic meters per minute [m^3/min]). Each AMS contains a flow-rate chart recorder and a hour-meter that provide a record of the monitor's operational run time over the sampling period. Additionally, each AMS is equipped with flow controllers that maintain a constant airflow through the monitor and automatically adjust blower/motor speed to correct for variations in line voltage, temperature, pressure, or filter loading.

The six AMSs are divided among boundary and background monitoring locations. Five monitors are located on the Fernald Preserve boundary, and one monitor collects background data at a location approximately 3.2 miles (5.2 km) from the center of the Fernald Preserve.

The EPA criteria for locating air monitors (40 CFR 58, Appendix E) were considered when selecting the initial 16 boundary locations. Reduction of the initial 16 locations to the present 5 stations was discussed with and approved by the EPA (DOE 2006a, DOE 2006b).

Table 1. CY 2009 Net Air Concentrations

| Location | Ra-226 pCi/m ³ | Th-228 pCi/m ³ | Th-230 pCi/m ³ | Th-232 pCi/m ³ | U-234 pCi/m ³ | U-235/236 pCi/m ³ | U-238 pCi/m ³ |
|-------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|---------------------------------|-----------------------------|
| Fence Line^a | | | | | | | |
| AMS-2 | 1.00E-05 | 0 | 0 | 0 | 4.0E-07 | 0 | 1.1E-06 |
| AMS-3 | 0 | 0 | 0 | 0 | 2.0E-07 | 0 | 5.0E-07 |
| AMS-6 | 1.00E-05 | 0 | 1.0E-07 | 0 | 1.1E-06 | 0 | 1.7E-06 |
| AMS-8A | 0 | 0 | 0 | 0 | 2.0E-07 | 0 | 1.3E-06 |
| AMS-24 | 5.00E-06 | 0 | 0 | 0 | 0 | 0 | 0 |
| Background^b | | | | | | | |
| AMS-12 | 2.70E-05 | 6.3E-06 | 3.9E-06 | 2.9E-06 | 4.0E-06 | 0 | 3.2E-06 |

^aFor fence line monitors, net = total – blank – background (0 if net is negative)

^bFor background location, net = total – blank (0 if net is negative)

1.3.3 Air Emission Data Reporting

All monitoring data are provided to the EPA and Ohio EPA electronically on the Office of Legacy Management's Fernald Preserve website: <http://www.lm.doe.gov/ferald/Sites.aspx>.

2.0 Air Emissions Data

2.1 Air Monitoring Data Completeness Status

During CY 2009, there was one minor issue with the data quality of the quarterly composite results. Many of the reported thorium and uranium isotopes had a detection limit above the contract specified detection limit of 1 picocurie per liter (pCi/L). Although most isotope results were above the slightly higher detection limits, several thorium-228, thorium-230, and uranium-234 results were above 1 pCi/L, but less than the reported detection limit. As results below the detection limit are set to zero for the NESHAP analysis, the failure of the lab to meet the 1-pCi/L detection limit for the few noted isotopes resulted in a small amount of activity being omitted from the NESHAP calculations. However, this is not a significant issue because as the calculated particulate dose of 0.034 mrem/yr is nearly three orders of magnitude below the 10-mrem/yr NESHAP standard.

All blank filter results were below nuclide detection limits with the exception of thorium-230 for the third quarter. The third-quarter blank indicated 3.6 pCi/L for thorium-230, and this value was subtracted from all third-quarter thorium-230 results prior to performing the NESHAP calculations. Additional corrections to the analytical results were unnecessary.

Finally, as noted above, nesting birds fouled the June and July samples from AMS-8A, and the second-quarter results represent a 1-month composite.

1.3.2 Analytical Regime and Sampling Frequency

The analytical regime and sampling frequency for this program were designed to collect defensible data, account for the major dose sources, and demonstrate compliance with National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart H, as defined in 40 CFR 61.93(b)(5)(ii).

- Filters were exchanged monthly throughout the year and were analyzed for total uranium and total particulates to document emissions originating from wind erosion of soil at the Fernald Preserve. (**Note:** June and July samples from AMS-8A were fouled by nesting birds, and only a single monthly sample is used for the second-quarter result)
- A portion of each monthly filter was retained and used to form a quarterly composite sample. (**Note:** the second-quarter composite for AMS-8A was based on a single month, as noted above) The composite samples were analyzed for radium-226, thorium-228, thorium-230, thorium-232, uranium-234, uranium-235, and uranium-238. Results from the quarterly composite samples are used to track compliance with the NESHAP Subpart H standard for the calendar year.
- The isotope list for the quarterly results used for NESHAP compliance is based on:
 - Radionuclides that were stored in large quantities at the Fernald site and were handled or processed during the remediation effort (all noted isotopes).
 - Radionuclides that were the major contributors to dose based on environmental and stack filter measurements (uranium-234, uranium-235, and uranium-238).
 - Radionuclides in waste and contaminated soil that were the major contributors to dose during remedial actions (uranium-234, uranium-235, uranium-238, thorium-228, and thorium-230).

Uranium-238, thorium-232, and uranium-235 are the parent nuclides in the uranium, thorium, and actinide decay chains, respectively. Presently, the only applicable source for the isotopes is the certified soil that has been restored to isotope concentrations less than the final remediation levels in the *Final Record of Decision for Remedial Actions at Operable Unit 5* (DOE 1996). The uranium and thorium isotopes received and processed during the production history of the Fernald site were separated from their decay chain progeny at the site in the early years, and in later years the separation occurred prior to shipment to the site. As a result of the separation and purification of uranium and thorium products, all decay chain progeny are not in equilibrium with the parent activity, but short half-life progeny are expected to be in equilibrium with the parent. Because some of the short-lived progeny are difficult to quantify using standard radiochemistry analytical techniques, in part due to the limited sample volume and low nuclide concentrations in the quarterly composite samples, they can be considered to be present in equilibrium with their parent or immediately preceding long-lived daughter (i.e., thorium-234 with uranium-238; radium-228 and actinium-228 with thorium-232; radium-224 with thorium-228; and thorium-231 with uranium-235). The progeny nuclides noted above are used in the dose assessment.

Net air concentrations for measured isotopes are summarized in Table 1. For the boundary monitors, the net air concentration is defined as the analytical result minus the blank and background values. The net air concentration at the background location is the analytical result minus the blank.

2.2 Air Monitoring Station Operational Performance

During CY 2009, operational run times for five of the AMSs exceeded 94 percent, and AMS-24 exceeded 88 percent (Table 2). In general, interruptions in monitor operations during CY 2009 were the result of short-term power failures and/or equipment failures.

3.0 Dose Assessment

Based on the sum of the quarterly net measured concentrations (i.e., net concentration equals boundary concentration minus background concentration) and annual air volumes, the annual net average concentration for each radionuclide is calculated and then divided by the corresponding value listed in Subpart H of 40 CFR 61, Appendix E, Table 2 to form a radionuclide-specific compliance ratio. For each boundary monitor, the sum of the radionuclide compliance ratios is calculated (Table 3; Annual Total column) to evaluate compliance with NESHAP requirements. In accordance with 40 CFR 61.107, compliance with the NESHAP standard is demonstrated when the sum of the ratios is less than 1.

Table 2. CY 2009 Operational Summary for Air Particulate Monitoring Stations

| Location | Number of Samples | Sample Start Date | Last Sample Collection Date | Operating Time (hours) | Percent of Operation |
|-------------------|-------------------|-------------------|-----------------------------|------------------------|----------------------|
| Boundary | | | | | |
| AMS-2 | 12 | 05-Jan-09 | 04-Jan-10 | 8723 | 99.9 |
| AMS-3 | 12 | 05-Jan-09 | 04-Jan-10 | 8265 | 94.6 |
| AMS-6 | 12 | 05-Jan-09 | 04-Jan-10 | 8421 | 96.4 |
| AMS-8A | 10 ^a | 05-Jan-09 | 04-Jan-10 | 8564 | 98.0 |
| AMS-24 | 12 | 05-Jan-09 | 04-Jan-10 | 7701 | 88.2 |
| Background | | | | | |
| AMS-12 | 12 | 05-Jan-09 | 04-Jan-10 | 8729 | 99.9 |

^aSamples for June and July were damaged due to birds nesting in the monitor box.

Table 3. 2009 Annual NESHAP Compliance Ratios

| Location | Ac-228 ^a | Ra-224 ^a | Ra-226 | Ra-228 ^a | Th-228 | Th-230 | Th-231 ^a | Th-232 | Th-234 ^a | U-234 | U-235/6 | U-238 | annual total | annual dose ^b (mrem) |
|-------------------------------|---------------------|---------------------|---------|---------------------|---------|---------|---------------------|---------|---------------------|---------|---------|---------|--------------|---------------------------------|
| Boundary^c | | | | | | | | | | | | | | |
| AMS-2 | 0 | 0 | 3.0E-03 | 0 | 0 | 0 | 0 | 0 | 5.0E-07 | 5.2E-05 | 0 | 1.3E-04 | 3.2E-03 | 3.2E-02 |
| AMS-3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.3E-07 | 2.6E-05 | 0 | 6.0E-05 | 8.6E-05 | 8.6E-04 |
| AMS-6 | 0 | 0 | 3.0E-03 | 0 | 0 | 2.9E-05 | 0 | 0 | 7.7E-07 | 1.4E-04 | 0 | 2.0E-04 | 3.4E-03 | 3.4E-02 |
| AMS-8A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.9E-07 | 2.6E-05 | 0 | 1.6E-04 | 1.8E-04 | 1.8E-03 |
| AMS-24 | 0 | 0 | 1.5E-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5E-03 | 1.5E-02 |
| Background^c | | | | | | | | | | | | | | |
| AMS-12 | 7.8E-07 | 4.2E-05 | 8.2E-03 | 4.9E-04 | 2.0E-03 | 1.1E-03 | 0 | 4.7E-03 | 1.5E-06 | 5.2E-04 | 0 | 3.9E-04 | 1.7E-02 | 1.7E-01 |

^aRatio determined by assuming nuclide is in secular equilibrium with the parent nuclide.

^bAnnual dose based on the NESHAP standard of 10 mrem/yr multiplied by the annual total.

^cFor boundary monitors, net = total - blank - background (0 if net is negative). For AMS-12 net = total - blank.

Based on the NESHAP approach for demonstrating compliance, the 40 CFR 61, Appendix E, Table 2 values represent the annual average radionuclide concentrations that correspond to a 10 mrem/yr effective dose equivalent. It follows that a fraction of the 40 CFR 61, Appendix E, Table 2 values would correspond to an equivalent fraction of a 10 mrem/yr effective dose equivalent. Therefore, the sum of ratios for each monitor is converted to a dose by multiplying

the sum by 10 mrem/yr (Table 3; Annual Dose column). The maximum value for the sum of the ratios (0.0034) is observed at AMS-6, and this converts to a maximum effective dose equivalent of 0.03417 mrem/yr (0.00034 mSv/yr) at the Fernald Preserve boundary.

Because the nearest downwind resident is located approximately 8,000 feet (2,400 meters) east-northeast from AMS-6, the dose received by this receptor would be lower than 0.034 mrem/yr (0.00034 mSv/yr) because particulate dose decreases with distance.

4.0 Compliance Assessment

For CY 2009, the maximum effective dose equivalent from emissions of radionuclides to the ambient air, based on samples collected at the Fernald Preserve boundary, is estimated to be 0.034 mrem/yr (0.00034 mSv/yr), which is in compliance with the Subpart H standard of less than 10 mrem/yr (0.1 mSv/yr).

5.0 Additional Information

5.1 Meteorological Data

Refer to Figure 2 for the wind rose data.

5.2 Construction/Modifications at the Fernald Preserve

In CY 2009, there were no project changes that resulted in a need to apply to the EPA for approval (under 40 CFR 61.96) to modify the monitoring network for source emissions.

6.0 References

DOE (U.S. Department of Energy), 1996. *Final Record of Decision for Remedial Actions at Operable Unit 5*, 7478 U-007-501.4, Fernald Area Office, Cincinnati, Ohio, January.

DOE (U.S. Department of Energy), 1997. "Application for Approval to Use Environmental Measurements to Demonstrate Compliance with the National Emission Standards for Hazardous Air Pollutants Subpart H," letter #DOE-0980-97, Johnny Reising to James Saric and Michael Murphy, May 23.

DOE (U.S. Department of Energy), 2006a. "Approval for removing Phase 1 – TLD, Radon and Particulate Monitors (AMS-04, AMS-05, AMS-07, AMS-23, AMS-25 and AMS-28)," received at weekly conference call on April 11.

DOE (U.S. Department of Energy), 2006b. "Phase II Site Boundary Air Monitor Reductions," approval letter received from EPA on November 29.

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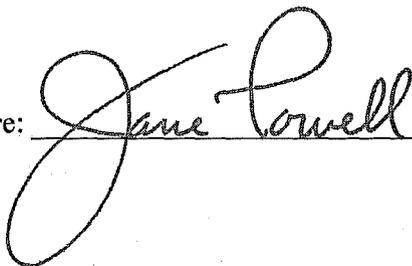
DOE (U.S. Department of Energy), 2009. *Comprehensive Legacy Management and Institutional Controls Plan*, LMS/FER/S03496-3.0, Revision 3, prepared by S.M. Stoller Corporation for DOE, Fernald Area Office, Cincinnati, Ohio, January.

EPA (U.S. Environmental Protection Agency), 1997. "Application for Approval to Use Environmental Measurements to Demonstrate Compliance with the National Emission Standards for Hazardous Air Pollutants Subpart H," letter from Jack Barnett to Johnny Reising, August 11.

7.0 Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment (see 18 USC 1001).

Name: Jane Powell

Signature: 

Date: 5-14-10