UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
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Mr. Johnny W. Reising
United States Department of Energy
Feed Materials Production Center
P.O. Box 398705
Cincinnati, Ohio 45239-8705

RE: 2000 Integrated Site Environmental Report

Dear Mr. Reising:

The United States Environmental Protection Agency (U.S. EPA) has completed its review of the United States Department of Energy's (U.S. DOE) 2000 Integrated Site Environmental Report.

This document summarizes site-wide monitoring activities for 2000. Overall, the report is technically complete and adequate. However, U.S. EPA has enclosed comments which should be addressed in next year's Integrated Site Environmental Report.

Please contact me at (312) 886-0992 if you have any questions regarding this matter.

Sincerely,

James A. Saric
Remedial Project Manager
Federal Facilities Section
SFD Remedial Response Branch #2

Enclosure

cc: Tom Schneider, OEPA-SWDO
Kim Chaney, U.S. DOE-HDQ
John Bradburne, Fluor Fernald
Terry Hagen, Fluor Fernald
Tim Poff, Fluor Fernald

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TECHNICAL REVIEW COMMENTS ON "2000 INTEGRATED SITE ENVIRONMENTAL REPORT"

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SPECIFIC COMMENTS

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5.0 Page #: 85 Line #: Not applicable (NA)
Original Specific Comment #: 1
Comment: The summary of radiological air particulate results for 2000 provided in the text box on the left side of the page highlights a comparison of radionuclide concentrations with U.S. Department of Energy-derived concentration guide values, which are seldom mentioned in the quarterly environmental monitoring reports. In future annual reports, the summary should focus on key findings such as compliance with the 10-millirem (mrem) annual effective dose equivalent in the National Emissions Standards for Hazardous Air Pollutants, Subpart H.

Commenting Organization: U.S. EPA Commentor: Saric
Table #: 5-1 Page #: 89 Line #: NA
Original Specific Comment #: 2
Comment: Table 5-1 presents total uranium, total particulate, and thorium 230 concentrations in air for 1999 and 2000. However, neither the accompanying text nor Appendix C (Supplemental Air Information) provides the data needed to verify the minimum, maximum, and average thorium 230 concentrations listed in Table 5-1. Future annual reports should include enough data to allow independent verification of all summary statistics presented.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 5.4.1 Page #: 96 Line #: NA
Original Specific Comment #: 3
Comment: The text states that Appendix C, Attachment 2 includes a "graphical display of average headspace radon concentrations" in K-65 Silos 1 and 2. However, this graphical display does not appear in Appendix C, Attachment 2. This graphical display should be included in future annual reports.

Commenting Organization: U.S. EPA Commentor: Saric
Section #: 6.3 Page #: 109 Line #: NA
Original Specific Comment #: 4
Comment: The text states that the estimated radiation dose from consumption of locally grown produce increased from 0.1 mrem in 1997 to 0.9 mrem in 2000. However, the text incorrectly

2

implies that this increase was caused primarily by the addition of thorium analyses for the 2000 samples (the 1997 produce samples were analyzed for uranium only). The uranium contribution to the 2000 radiation dose was 0.46 mrem, so the estimated dose would have increased even if thorium had not been analyzed for in the 2000 samples.