Department of Energy

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NOV 27 2001

3973

DOE-0145-02

Mr. James A. Saric, Remedial Project Manager
United States 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:

THE DEPARTMENT OF ENERGY RESPONSE TO THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY'S EXCEPTION TO A RESPONSE TO COMMENT ON THE 2000 INTEGRATED SITE ENVIRONMENTAL REPORT

Reference: Letter from J. Saric to J. W. Reising, "USEPA Approval of DOE's Responses to Comments on the 2000 Integrated Site Environmental Report, with One Exception," dated October 17, 2001

In the referenced letter, the United States Environmental Protection Agency (USEPA) identifies a concern with the Department of Energy's (DOE) response to the USEPA's original specific Comment Number 2 on the 2000 Integrated Site Environmental Report (ISER). To summarize, the USEPA's original comment requested that the appendices to the 2000 ISER contain sufficient data to verify the summary level information contained in the ISER, specifically related to Table 5-1 of the 2000 ISER. The DOE's initial comment response indicated that several tables and graphs within Appendix C or data files provided on the Integrated Environmental Monitoring Plan (IEMP) Data Information Site contained the needed data. Upon receipt of the referenced letter, DOE found that Table C.1-7 in Appendix C of the 2000 ISER contained incorrect data, and therefore, did not include the data necessary to verify the thorium-230 concentration data for 2000, as provided in Table 5-1.

This letter includes a revised Table C.1-7 that contains the correct data. Please insert the revised Table C.1-7 into all copies of the 2000 ISER Appendices that were previously forwarded to you. DOE apologizes for any inconvenience that this error has caused. It should also be noted that the thorium-230 concentration data for 1999 in Table 5-1 can be verified by referring to Appendix C, Table C.1-4 of the 1999 ISER.

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If you have any questions concerning the attached information, please contact Kathleen Nickel of my staff at (513) 648-3166.

Sincerely,

Johnny Reising

FEMP:Nickel

Johnny W. Reising
Fernald Remedial Action
Project Manager

Enclosure: As Stated

cc w/enclosure:
R. J. Janke, OH/FEMP
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ECDC, Fluor Fernald, Inc./MS52-7

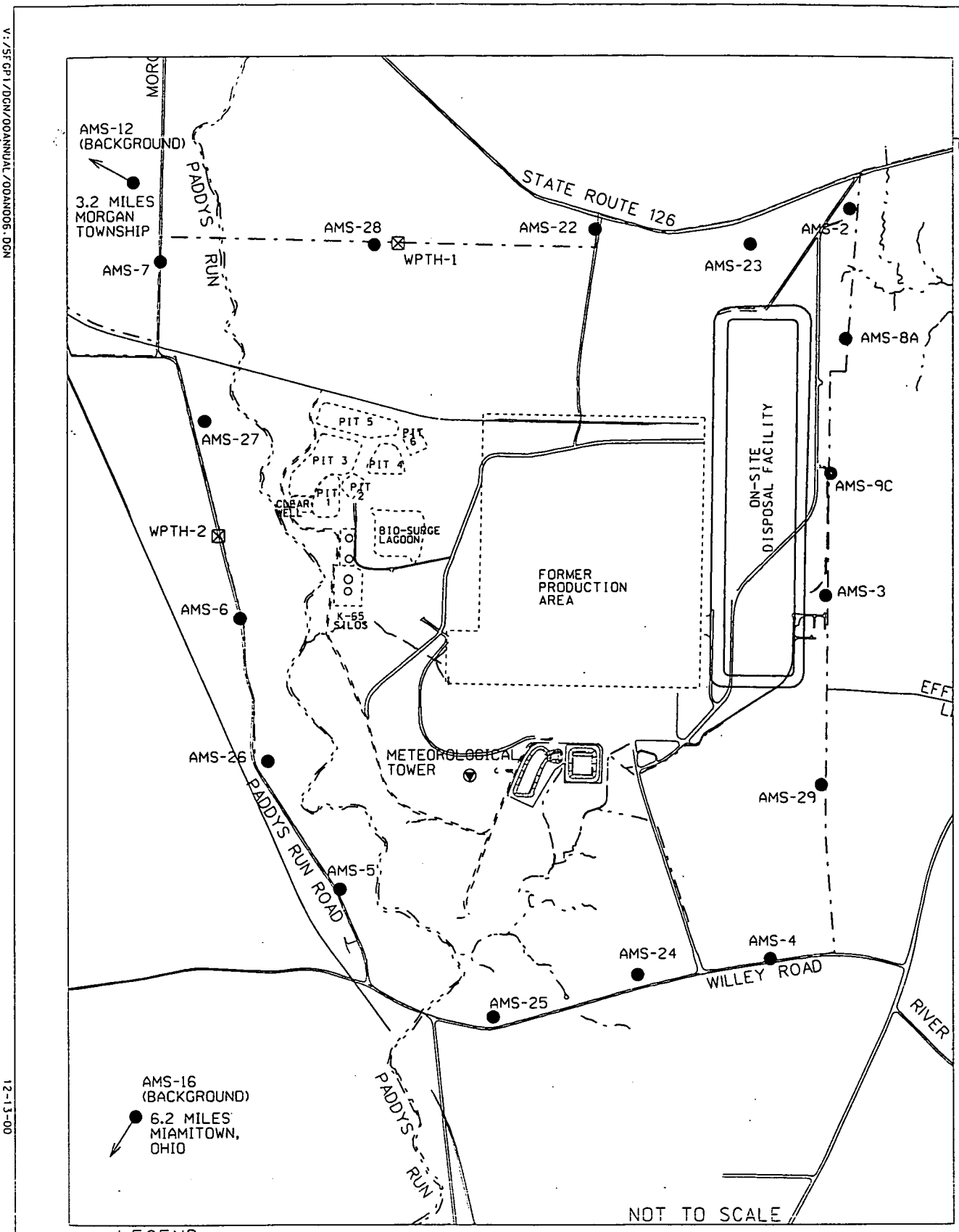
2

TABLE C.1-7, Rev. 1

RADIONUCLIDE PARTICULATE CONCENTRATIONS IN AIR DURING 2000

	Gross Concentrations (pCi/m³)[a]											
Location[b]	Uranium-238	Uranium-234	Uranium-235/ Uranium-236	Thorium-228	Thorium-230	Thorium-232	Radium-226	Thorium-234[c]	Radium-228[c]	Actinium-228[c]	Radium-224[c]	Thorium-231[c]
Fenceline												
AMS-2	4.9E-05	3.5E-05	1.9E-06	6.9E-06	4.2E-05	5.5E-06	5.7E-05	4.9E-05	5.5E-06	5.5E-06	5.5E-06	1.9E-06
AMS-3	1.3E-04	9.5E-05	7.1E-06	9.9E-06	1.9E-04	9.2E-06	1.3E-04	1.3E-04	9.2E-06	9.2E-06	9.2E-06	7.1E-06
AMS-4	2.4E-05	1.9E-05	1.7E-06	7.2E-06	3.5E-05	6.3E-06	8.8E-05	2.4E-05	6.3E-06	6.3E-06	6.3E-06	1.7E-06
AMS-5	2.7E-05	1.8E-05	9.1E-07	7.0E-06	3.7E-05	5.2E-06	9.8E-05	2.7E-05	5.2E-06	5.2E-06	5.2E-06	9.1E-07
AMS-6	4.7E-05	2.8E-05	1.5E-06	6.6E-06	6.4E-05	5.8E-06	7.9E-05	4.7E-05	5.8E-06	5.8E-06	5.8E-06	1.5E-06
AMS-7	2.2E-05	1.6E-05	8.7E-07	6.6E-06	2.4E-05	5.2E-06	9.2E-05	2.2E-05	5.2E-06	5.2E-06	5.2E-06	8.7E-07
AMS-8A	1.0E-04	7.7E-05	4.8E-06	8.3E-06	8.7E-05	6.9E-06	9.4E-05	1.0E-04	6.9E-06	6.9E-06	6.9E-06	4.8E-06
AMS-9C	8.8E-05	6.1E-05	3.9E-06	8.3E-06	1.1E-04	9.1E-06	1.1E-04	8.8E-05	9.1E-06	9.1E-06	9.1E-06	3.9E-06
AMS-22	3.7E-05	2.4E-05	1.0E-06	7.7E-06	4.7E-05	5.7E-06	8.2E-05	3.7E-05	5.7E-06	5.7E-06	5.7E-06	1.0E-06
AMS-23	3.5E-05	2.2E-05	9.0E-07	7.7E-06	4.3E-05	6.2E-06	9.0E-05	3.5E-05	6.2E-06	6.2E-06	6.2E-06	9.0E-07
AMS-24	3.8E-05	2.9E-05	1.8E-06	8.2E-06	6.3E-05	6.6E-06	8.6E-05	3.8E-05	6.6E-06	6.6E-06	6.6E-06	1.8E-06
AMS-25	2.5E-05	1.8E-05	8.9E-07	7.8E-06	3.9E-05	6.1E-06	1.2E-04	2.5E-05	6.1E-06	6.1E-06	6.1E-06	8.9E-07
AMS-26	3.2E-05	2.1E-05	1.3E-06	7.2E-06	3.6E-05	4.6E-06	9.3E-05	3.2E-05	4.6E-06	4.6E-06	4.6E-06	1.3E-06
AMS-27	3.0E-05	2.1E-05	7.9E-07	9.3E-06	4.2E-05	6.3E-06	1.2E-04	3.0E-05	6.3E-06	6.3E-06	6.3E-06	7.9E-07
AMS-28	4.3E-05	2.1E-05	1.9E-06	6.2E-06	5.8E-05	3.2E-06	9.4E-05	4.3E-05	3.2E-06	3.2E-06	3.2E-06	1.9E-06
AMS-29	4.7E-05	3.4E-05	2.7E-06	8.1E-06	5.2E-05	6.3E-06	1.1E-04	4.7E-05	6.3E-06	6.3E-06	6.3E-06	2.7E-06
Background												
AMS-12	6.4E-06	5.9E-06	1.9E-07	5.5E-06	6.1E-06	3.6E-06	6.8E-05	6.4E-06	3.6E-06	3.6E-06	3.6E-06	1.9E-07
AMS-16[d]	7.4E-06	7.2E-06	0.0E+00	7.7E-06	8.9E-06	6.1E-06	8.0E-05	7.4E-06	6.1E-06	6.1E-06	6.1E-06	0.0E+00
DCG[e]	1.0E-01	9.0E-02	1.0E-01	4.0E-02	4.0E-02	7.0E-03	1.0E+00	4.0E+02	3.0E+00	4.0E+01	4.0E+00	1.0E+04

[a]A concentration of 0.0 indicates the filter results were less than or equal to the blank results.
[b]Refer to Figure C.1-1 for sample locations
[c]Isotopes assumed to be in equilibrium with their parents
[d]Second quarter AMS-16 background sample results were rejected because not representative of historical background levels.
[e]Derived concentration guidelines (DCG) for air (Ci/mL · 1.0E+12 pCi/m³) from DOE Order 5400.5., Radiation Protection of the Public and the Environment, February 1990. Continuous inhalation of this concentration for one year will result in a committed effective dose equivalent of 100 mrem (1mSv).



LEGEND:

FEMP BOUNDARY

AMS LOCATION

DISTANCE FROM CENTER OF FORMER PRODUCTION AREA TO AMS LOCATION OFF MAP

THORIUM MONITOR LOCATION

FIGURE C.1-1. IEMP AIR MONITORING LOCATIONS

V:/SFGP1/DGN/00ANNUAL/00AN006.DGN
12-13-00