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**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY
COMPLIANCE AGREEMENT/FEDERAL FACILITY
AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1 THROUGH
30, 1996, AND QUARTERLY REPORT JULY 1 THROUGH SEPTEMBER
30, 1996**

10/18/96

DOE-0057-97
DOE-FN EPAS
25
REPORT



Department of Energy

**Ohio Field Office
Fernald Area Office**

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



OCT 18 1996

DOE-0057-97

**Mr. James A. Saric, Remedial Project Director
U.S. Environmental Protection Agency
Region V - 5HSF-5J
77 W. 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:

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
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QUARTERLY REPORT - JULY 1 THROUGH SEPTEMBER 30, 1996**

**This letter transmits the amended Consent Agreement Monthly Report for the period
September 1 through 30, 1996, and Quarterly Report which describes the activities
accomplished July 1 through September 30, 1996. The monthly and quarterly reports have
been revised to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to
J.A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under
the FEMP Legal Agreements," dated January 16, 1996, and agreed to by the U.S.
Environmental Protection Agency (U.S. EPA) and the Ohio Environmental Protection Agency
(OEPA).**

If you have any questions, please contact me at (513) 648-3139.

Sincerely,

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

Enclosures: As Stated

cc w/encs:

**S. Fauver, EM-425/GTN
R. L. Nace, EM-425/GTN
R. Beaumier, TPSS/DERR, OEPA-Columbus
D. Carr, FDF/52-5
T. Hagen, FDF/65-2
AR Coordinator/78**

cc w/o encs:

**G. Jablonowski, USEPA-V, 5HRE-8J
F. Bell, ATSDR
D. S Ward, GeoTrans
S. McLellan, PRC
J. Harmon, FDF/90
B. Irvine, FDF/65-2
C. Little, FDF/2
T. Walsh, FDF/65-2
EDC, FDF/52-7**

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Introduction

This report describes actions at the Fernald Environmental Management Project (FEMP) from July 1, 1996 through September 30, 1996. The monthly and quarterly reports have been revised to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J.A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements", dated January 16, 1996 and agreed to by USEPA and OEPA.

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MISCELLANEOUS

July 1996

- The Fernald Environmental Management Project (FEMP) has completed projectization of the entire organization. The re-engineering was initiated to implement the 10-year plan. The Remedial Investigation/Feasibility Study process has been completed and the focal point now is project oriented.

OPERABLE UNIT 1

July 1996

- Enforceable Milestones
 - None
- Major Work Completed
 - Submitted Alternative Remedial Action Subcontracting Approach (ARASA) Statement of Work (SOW) for the Waste Pits Remedial Action Project (OU1) to Agencies on June 28, 1996, for review and comment; comments were requested by August 2, 1996.
 - Submitted a Draft Request for Proposal (RFP) for the remediation of the OU1 Waste Pit Area to potential offerors on July 18, 1996, for review and comment.

August 1996

- Enforceable Milestones
 - The Draft Remedial Action Work Plan (RAWP) was submitted on August 16, 1996, for FEMP review

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- Major Work Initiated/Completed
 - OEPA comments on Alternative Remedial Action Subcontracting Approach (ARASA) Statement of Work (SOW) were reviewed
 - Comments from potential offerors on ARASA Request for Proposal (RFP) were reviewed
 - The Request for Proposal (RFP) for construction of on-site rail facilities was issued
 - The CSXT bid for off-site trestle repair was received
 - Ohio Field Office (OFO) RFP for off-site disposal services to bidders was issued
 - Preparation of draft tender for rail contract was completed
 - Continued Site Preparation Activities as follows:
 - Completed stripping of process area topsoil
 - Completed excavation of stormwater ponds
 - Completed construction of soil sediment pond

September 1996

- Enforceable Milestones Completed
 - None
- Major Work Initiated/Completed
 - Incorporated DOE comments on Remedial Action Work Plan (RAWP)

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- Continued Site Prep Activities as follows:
 - Evaluated and selected a contractor for the on-site rail upgrades
 - Completed north and south drainage ditches
 - Negotiated off-site trestle contract with CSXT (FY97 award)

October 1996 (Anticipated)

- Enforceable Milestones
 - Submit OU1 RAWP to the Agencies by October 22, 1996
- Major Work to be Initiated/Completed
 - Award on-site rail contract
 - Award contract for upgrade of the Okeana trestle
 - Resolve outstanding DOE issues on the Alternative Remedial Action Subcontracting Approach (ARASA) Request for Proposal (RFP)
 - Continue Site Prep Activities

OPERABLE UNIT 2

July 1996

- Enforceable Milestones
 - Submitted Area 1, Phase 1 Work Plan to EPAs on July 17, 1996

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- Major Work Completed
 - Completed construction of the OSDF Test Pad on July 3, 1996.
 - Completed Exploratory Trenching in East Field on July 17, 1996

Personnel Changes

- Nancy Weatherup has been replaced by Mike Hickey as Project Manager for the Disposal Facility Project, while Arlen Hunt will assume her responsibilities as Project Manager for Soils Characterization.

August 1996

- Enforceable Milestones
 - On-Site Disposal Facility (OSDF)
 - Submitted Haul Road and Rerouted North Entrance Road Certified for Construction (CFC) Package to Agencies on August 8, 1996
 - Submitted Haul Road and Rerouted North Entrance Road RAWP to Agencies on August 8, 1996
 - Soil Characterization & Excavation Project (SCEP)
 - None
- Major Work Initiated/Completed
 - OSDF
 - USEPA approval on the Pre-Final Design Package was received on August 8, 1996
 - Completed monitoring on the Test Pad Project
 - SCEP

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- Response was made to USEPA comments on the 30% Design (Title I) of the RAWP for the Excavation and Removal of the Waste Materials from the Five Operable Unit 2 Waste Units
- The Independent Design Review of the 30% Design of the Waste Units RAWP was initiated
- Field activities in Area 1, Phase I continued; the ultimate purpose of this activity is to identify and remove contaminated soil prior to construction of the OSDF and sections of the rail yard
- Characterization of Area 1, Phase I East of the North Access Road was initiated

September 1996

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF)
 - None
 - Soil Characterization & Excavation Project (SCEP)
 - None
- Major Work Initiated/Completed
 - OSDF
 - Completed all testing and demolition associated with the Test Pad Program
 - SCEP
 - Initiated maintenance of the Active Flyash Pile washout---the activity is 75% complete; once materials are regraded, crusting agents will be applied to minimize erosion

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October 1996 (Anticipated)

- Enforceable Milestones
 - OSDF
 - Submit Final Design/Certified for Construction Package to the EPAs by October 14, 1996
 - SCEP
 - None
- Major Work to be Initiated/Completed
 - OSDF
 - Reroute the FEMP North Entrance Road (currently located in the OSDF footprint)
 - SCEP
 - Initiate construction of modifications to the seepage control system

OPERABLE UNIT 3

July 1996

- Enforceable Milestones
 - USEPA conditionally approved the Draft Final Record of Decision for Operable Unit 3 on July 29, 1996 with minor comments; the ROD was submitted on June 27, 1996, almost a month ahead of the actual ACA milestone date of July 25, 1996
- Major Work Completed
 - Safe Shutdown Activities Continue

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August 1996

- Enforceable Milestones
 - Final Record of Decision (ROD) for OU3 was submitted to USEPA for approval/signature on August 23, 1996
- Major Work Initiated/Completed
 - Safe Shutdown
 - Continued holdup material removal in Plant 5
 - Continued line draining in Plant 2/3
 - Completed planning for Plant 2/3
 - D&D
 - Plant 4 implosion was successfully completed on August 24, 1996
 - Continued activities in Plant 1
 - Continued work on Boiler Plant/Water Plant design

September 1996

- Enforceable Milestones Completed
 - Received signature page signed by USEPA for OU3 Final Record of Decision (ROD) on September 24, 1996; this is the final ROD for the FEMP
 - Submitted Draft Boiler Plant/Water Plant Implementation Plan for Above-Grade Decontamination and Dismantlement to the Agencies on September 13, 1996

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- Major Work Initiated/Completed
 - Safe Shutdown
 - Continued holdup material removal in Plant 5
 - Continued line draining in Plant 2/3
 - Initiated holdup material removal in Plant 2/3
 - D&D
 - Continued activities in Plant 1

October 1996 (Anticipated)

- Enforceable Milestones
 - None
- Major Work to be Initiated/Completed
 - Safe Shutdown
 - Continue holdup material removal in Plant 5
 - Continue line draining in Plant 2/3
 - Continue holdup material removal in Plant 2/3
 - D&D
 - Continue activities in Plant 1

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OPERABLE UNIT 4

July 1996

- Enforceable Milestones
 - None
- Major Work Completed
 - Completed Campaign 1, Part 1 (Melter Operability) and Part 2 (Synchronize Gem Machine/Melter Testing) on July 24, 1996
 - Issued Draft Final Evaluation of Silo 3 Alternatives Report to DOE-FN on June 28, 1996
 - Issued Draft Final Evaluation of Silo 3 Alternatives Report to Agencies on July 10, 1996; document made available to the public on July 12, 1996
 - Transmitted responses to comments from Agencies on the Silo Superstructure Pre-Final Design to DOE on July 16, 1996

August 1996

- Enforceable Milestones
 - None
- Major Work Initiated/Completed
 - The Silo 3 Remedial Alternative was presented to the stakeholders at a public meeting on August 20, 1996 at the Alpha Building on U.S. Route 128, south of the site.

September 1996

- Enforceable Milestones Completed
 - Submittal of Radon Treatment System, Title I/II design, preliminary, milestone

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was missed. The milestone date was September 30, 1996. On September 26, 1996, U.S. DOE requested an extension under Section XVIII of the 1991 Amended Consent Agreement. The request for an extension was denied in a letter dated October 2, 1996 from James A. Saric, U.S. EPA to Johnny W. Reising, DOE-FN.

- Major Work Initiated/Completed
 - Campaign 1, Part 3 "Maximum Continuous Melter Operation" was completed on July 25, 1996. This was omitted from the July Monthly Report.
 - Vitrification Pilot Plant (VITPP)
 - Completed repairs of all bottom drains on September 5, 1996
 - Completed Phase I, Campaign #2 testing on September 24, 1996
 - Issued Final Upgrade Report on September 26, 1996
 - Silo 3 Remedial Alternative
 - Submitted Draft Silo 3 Alternative Report to the Nevada Test Site Citizens Advisory Board (CAB) on September 4, 1996
 - Received comments on Silo 3 Alternative Report from Agencies on September 9, 1996
 - Presented Silo 3 Remedial Alternative to the Fernald Citizens Task Force (FCTF) Waste Management Committee on September 11, 1996
 - Attended the Fernald Residents for Environmental Safety and Health (FRESH) meeting on September 26, 1996, to answer questions and receive public input on the suggested Silo 3 Remedial Alternative
 - Extended the public comment period associated with the Silo 3 Evaluation Report until October 15, 1996, to better accommodate stakeholders

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- Overall OU4 Issues
 - Submitted Pre-Final (90%) Silo Superstructure Design Package to Agencies, with comments incorporated, on September 13, 1996
 - Attended quarterly meeting of the FCTF on September 28, 1996, to answer questions and receive public comments on several matters, including specific inquiries related to the VITPP, the Silo 3 Alternative, Silos 1 and 2, and vitrification technology in general

October 1996 (Anticipated)

- Enforceable Milestones
 - Submit Phase II Remedial Action Work Plan to EPAs. Due date is October 7, 1996.

On September 26, 1996, U.S. DOE requested an extension under Section XVIII of the 1991 Amended Consent Agreement. The request for an extension was denied in a letter dated October 2, 1996 from James A. Saric, U.S. EPA to Johnny W. Reising, DOE-FN.
- Major Work to be Initiated/Completed
 - Prepare and present materials at a Public Meeting scheduled for October 15, 1996, on general topics related to OU4
 - Initiate standdown of the VITPP to make appropriate modifications to the facility prior to Campaign #4 testing

OPERABLE UNIT 5

July 1996

- Enforceable Milestones
 - None

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August 1996

- Enforceable Milestones
 - Submitted Draft Integrated Environmental Monitoring Plan (IEMP) to EPAs on August 1, 1996, in accordance with the Remedial Design Work Plan (RDWP) schedule
 - Forwarded Final RDWP to the Agencies on August 23, 1996
- Major Work to be Initiated/Completed
 - RDWP for Remedial Actions in Operable Unit 5 was approved by USEPA on July 30 and conditionally approved by OEPA on July 24, 1996
 - Performed on-board review of Advanced Waste Water Treatment System (AWWT) Expansion drawings to prepare for CFC completion, which is expected in September
 - Completed preliminary design of South Plume Optimization and Injection Demonstration groundwater restoration modules; initiated detailed design

September 1996

- Enforceable Milestones Completed
 - Aquifer Restoration Project (ARP)/Advanced Waste Water Treatment (AWWT)
 - Submitted the Design, Monitoring, and Evaluation Program Plan (DMEPP) to agencies on September 27, 1996. This report summarizes monitoring and operation activities and also provides an assessment of the effectiveness of the South Plume recovery well field
 - SCEP
 - None

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- Major Work Initiated/Completed
 - ARP/AWWT
 - Submitted the following reports to the EPAs in accordance with the Schedule of Remedial Design Deliverables for Groundwater as outlined in the Remedial Design Work Plan (RDWP) for OU5 **(Note: These items not due until October 1, 1996)**
 - Draft Baseline Remedial Strategy Report for Aquifer Restoration; transmitted on September 30, 1996
 - Phase II South Field Test Report (listed as "Short-Term Injection Test Report in the RDWP), transmitted on September 27, 1996; the Project Specific Plan for the Restoration Area Verification Sampling Program was also included in this transmittal
 - Preliminary Design Packages for the Injection Demonstration and the South Plume Optimization; transmitted on September 26, 1996
 - Began operation of the Slurry Dewatering System on September 17, 1996
 - Continued installation of the new AWWT multi-media filters; three rehabbed existing tanks have been received and their installation is also underway
 - SCEP
 - Kelchner Environmental mobilized to strip soils in Area 1, Phase I on the northern end of the OSDF to prepare for future construction within the area
 - Continued pre-certification testing in Area 1, Phase I; verification that soils meet the Waste Acceptance Criteria (WAC) for the OSDF are nearly complete for Area 1, Phase I west of the North Access Road, including portions of the rail yard
 - Initiated real-time characterization of Area 1, Phase I east of the North Access Road

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- Prepared responses to comments from Agencies on the Area 1, Phase I RAWP for submittal on October 4, 1996
- Presented information on the Sitewide Excavation Plan and the Natural Resource Restoration Plan to the Natural and Cultural Resources Committee of the FCTF on September 25, 1996

October 1996 (Anticipated)

- Enforceable Milestones
 - ARP/AWWT
 - Submitted the following reports to the EPAs in accordance with the Schedule of Remedial Design Deliverables for Groundwater as outlined in the Remedial Design Work Plan (RDWP) for OU5 (**Note: These items not due until October 1, 1996**)
 - Draft Baseline Remedial Strategy Report for Aquifer Restoration; transmitted on September 30, 1996
 - Phase II South Field Test Report (listed as "Short-Term Injection Test Report in the RDWP), transmitted on September 27, 1996; the Project Specific Plan for the Restoration Area Verification Sampling Program was also included in this transmittal
 - Preliminary Design Packages for the Injection Demonstration and the South Plume Optimization; transmitted on September 26, 1996
 - SCEP
 - None
- Major Work to be Initiated/Completed
 - ARP/AWWT
 - Complete the OU5 RAWP and transmit it to the EPAs by November 1, 1996

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- SCEP
- Submit response to comments to the Agencies on the Area 1, Phase I RAWP by October 4, 1996
- Begin characterization sampling and soil stripping activities in Area 1, Phase I east of the North Access Road
- Initiate WAC attainment sampling for soil in Area 1, Phase I
- Revise the Natural Resource Impact Assessment (NRIA) in response to comments from the Natural Resource Trustees (NRTs). The NRIA is due for submittal to the NRTs on October 18, 1996

WASTE PROGRAMS MANAGEMENT

July 1996

- Enforceable Milestones
 - None
- Major Work Completed
 - Low Level Waste
 - Shipped 901 m³ low level waste to Nevada Test Site (NTS)
 - Liquid Mixed Waste Project
 - Shipped 30 m³ of liquid mixed waste to TSCA Incinerator
 - Treated 5 m³ of liquid mixed waste in the FEMP Waste Water Treatment System (WWTS)

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- Chemical Treatment Project
 - Processed 1.2 m³ in the Decontamination Project (this waste was prepared for additional treatment required to meet Land Disposal Restrictions)

August 1996

- Enforceable Milestones
 - None
- Major Work Initiated/Completed
 - Low Level Waste
 - Shipped 1,873.0 m³ low level waste to Nevada Test Site (NTS)
 - Mixed Waste Treatment Projects
 - Shipped 73.6 m³ of liquid mixed waste to TSCA Incinerator
 - Treated 1.4 m³ of liquid mixed waste in the FEMP Waste Water Treatment System (WWTS)
 - Treated 21.6 m³ of mixed waste in the Stabilization Project
 - Chemical Treatment Projects
 - Processed 0.8 m³ in the Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project

September 1996

- Enforceable Milestones Completed
 - Completed all activities related to the September 30, 1996, treatment/shipment milestone specified in the Director's Final Findings and Orders issued on October 4, 1995, including the schedules in the FEMP Site Treatment Plan; the milestone included the following components:

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- Completed shipment of liquid mixed waste to the TSCA incinerator (this component actually completed in August 1996)
- Completed treatment of mixed waste in the Stabilization Project
- Completed treatment of liquid mixed waste in the Waste Water Treatment System (WWTS) Project
- Major Work Initiated/Completed
 - Low Level Waste
 - Shipped 1,568 m³ low level waste to Nevada Test Site (NTS)
 - Mixed Waste Treatment Projects
 - Treated 0.2 m³ of liquid mixed waste in the WWTS
 - Treated 4.2 m³ of mixed waste in the Stabilization Project
 - Chemical Treatment Projects
 - Treated 1.6 m³ in the Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project
 - Shipped 5.8 m³ in the Macroencapsulation Project

October 1996 (Anticipated)

- Enforceable Milestones to Be Completed
 - None
- Major Work to be Initiated/Completed
 - Mixed Waste Treatment Projects

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- Begin shipment of below-Land Disposal Restrictions (LDR) waste from Fire Training Facility, contingent upon funding; a total of 113 white metal boxes to be shipped in FY97
- Chemical Treatment Projects
 - Submit Work Plan for the Solvent Extraction Project and initiate treatment of 1,350 drums
 - Continue deactivation treatment of Magnesium drums in the NPDS Project

THORIUM OVERPACK PROJECT UPDATE

All figures year-to-date as of August 31, 1996

- Overpacked 507 drums
- Filled 87 TOCs
- Shipped 68 TOCs

All figures year-to-date as of September 30, 1996

- Overpacked 1,071 drums
- Filled 174 Thorium Overpack Containers (TOCs)
- Shipped 164 TOCs

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ATTACHMENT A

EFFLUENT RADIATION REPORTS

JULY, AUGUST, SEPTEMBER 1996

EFFLUENT RADIATION REPORT

JULY 1996

PARSHALL FLUME (Effluent to Great Miami River 11O00004001)						
	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l)(1)
Total	71,767,000	N/A	N/A	N/A	5.60	N/A
Avg (2)	2,315,000	12	510	21	0.18	7
Max	2,866,000	38	1200	39	0.32	13
Min	663,000	8	170	12	0.04	4

(1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.

(2) Average values presented are flow-weighted.

JULY 1996

STORMWATER RETENTION BASIN (SWRB)			SOUTH FIELD LEACHATE SYSTEM	
Bypasses			No Sample Collected This Month	
Overflows			Quarterly Sampling Required	
Dates	NONE	NONE	East Sump	
Gallons	0	0	Solids	
Total U	0	0	Total U	
STORMWATER RUNOFF TO PADDY'S RUN			West Sump	
			Solids	
			Total U	
Precipitation	4.86 in			
Total U	13.81 kg		Total Gallons	

000023

EFFLUENT RADIATION REPORT

AUGUST 1996

PARSHALL FLUME (Effluent to Great Miami River 11000004001)						
	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l)(1)
Total	56,366,000	N/A	N/A	N/A	3.34	N/A
Avg (2)	1,818,000	16	221	16	0.11	5
Max	3,055,000	58	620	27	0.22	9
Min	200,000	8	52	7	0.02	2

(1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.

(2) Average values presented are flow-weighted.

AUGUST 1996

STORMWATER RETENTION BASIN (SWRB)			SOUTH FIELD LEACHATE SYSTEM	
Bypasses			Overflows	
Dates	NONE		NONE	
Gallons	0		0	
Total U	0		0	
STORMWATER RUNOFF TO PADDY'S RUN			West Sump	
			Solids	
			Total U	
Precipitation			2.49 in	
Total U			7.07 kg	
			Total Gallons	

EFFLUENT RADIATION REPORT

SEPTEMBER 1996

PARSHALL FLUME

(Effluent to Great Miami River 11O00004001)

	Flow (gallons)	Total Alpha (pCi/l)	Total Beta (pCi/l)	Total U (ug/l)	Total U (kg)	Calculated Total U-238 (pCi/l)(1)
Total	66,786,000	N/A	N/A	N/A	7.66	N/A
Avg (2)	2,226,000	7	38	30	0.26	10
Max	3,962,000	73	240	178	2.44	60
Min	122,000	10	21	10	0.02	3

- (1) The activity of this discharge has been and will continue to be reported as Uranium-238 (pCi/l) in accordance with the Ohio EPA format for reporting uranium. Since this does not account for the activity of the other uranium isotopes in the effluent, the total uranium data is also presented. The calculated Total U-238 is based on a conversion factor of 337.84 pCi U-238/mg Total U applied to the measured value of total uranium.
- (2) Average values presented are flow-weighted.

SEPTEMBER 1996

STORMWATER RETENTION BASIN (SWRB)			SOUTH FIELD LEACHATE SYSTEM	
Bypasses			Sample Collected	09/16/96
Dates	28 & 29	Overflows	Quarterly Sampling Required	
Gallons	2,256,000	NONE	East Sump	
Total U	3.69 kg	0	Solids	187 mg/l
		0	Total U	18.1 ug/l
STORMWATER RUNOFF TO PADDY'S RUN			West Sump	
			Solids	61.6 mg/l
			Total U	33.9 ug/l
Precipitation		6.53 in	* Flow integrator not working	
Total U		18.55 kg	Total Gallons	

000025

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT SEPTEMBER 1 - 30, 1996 AND
QUARTERLY REPORT - JULY 1 - SEPTEMBER 30, 1996
INCLUDING EFFLUENT RADIATION REPORT AND RADON REPORT**

ATTACHMENT B

RADON REPORTS

July, August, September 1996

**CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT/
FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT**

MONTH: JULY
YEAR: 1996

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

**K-65 SILO REPORT
RADON CONCENTRATIONS**

Summary of Continuous Monitoring Results

Report Date: 10/10/96

Daily Statistics	SILO 1				SILO 2			
	Average	Maximum	Minimum	Std. Dev.	Average	Maximum	Minimum	Std. Dev.
07/01/96	4.31E+06	6.21E+06	-1.60E+04	1.77E+06	1.24E+06	9.19E+06	-3.10E+06	5.79E+06
07/02/96	4.62E+06	6.59E+06	-2.27E+04	1.47E+06	1.74E+06	8.30E+06	-3.10E+06	5.34E+06
07/03/96	1.16E+06	4.34E+06	1.24E+04	9.72E+05	7.82E+06	1.05E+07	4.60E+06	4.48E+05
07/04/96	2.68E+06	6.13E+06	1.18E+05	1.82E+06	7.91E+06	8.79E+06	6.55E+06	4.45E+05
07/05/96	3.10E+06	6.24E+06	-1.95E+04	2.00E+06	7.82E+06	8.80E+06	-3.10E+06	8.12E+05
07/06/96	3.88E+06	6.31E+06	4.16E+05	1.88E+06	7.93E+06	8.99E+06	6.62E+06	5.68E+05
07/07/96	4.52E+06	6.37E+06	1.39E+05	1.45E+06	7.97E+06	8.88E+06	6.20E+06	6.14E+05
07/08/96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
07/09/96	1.66E+06	4.75E+06	1.35E+05	9.44E+05	7.66E+06	8.14E+06	-5.92E+05	7.60E+05
07/10/96	1.40E+06	5.21E+06	2.74E+04	1.23E+06	7.84E+06	8.59E+06	6.99E+06	3.31E+05
07/11/96	3.57E+06	6.25E+06	5.41E+05	2.10E+06	8.06E+06	8.69E+06	7.27E+06	3.27E+05
07/12/96	4.71E+06	6.41E+06	9.21E+05	1.65E+06	8.04E+06	8.77E+06	7.36E+06	4.29E+05
07/13/96	3.74E+06	6.47E+06	6.02E+05	1.57E+06	7.83E+06	8.54E+06	-3.09E+06	7.85E+05
07/14/96	3.67E+06	6.28E+06	6.92E+05	1.67E+06	7.84E+06	8.45E+06	6.60E+06	4.13E+05
07/15/96	1.91E+06	6.25E+06	8.53E+04	1.69E+06	7.88E+06	8.50E+06	4.10E+06	5.19E+05
07/16/96	2.68E+06	5.47E+06	6.03E+05	1.29E+06	7.42E+06	8.21E+06	-3.09E+06	7.83E+05
07/17/96	3.93E+06	6.47E+06	4.88E+05	1.83E+06	7.54E+06	8.18E+06	6.07E+06	4.62E+05
07/18/96	3.79E+06	6.33E+06	1.09E+06	1.37E+06	7.77E+06	8.29E+06	6.01E+06	3.17E+05
07/19/96	3.02E+06	6.21E+06	7.23E+05	1.43E+06	7.46E+06	7.93E+06	4.38E+06	3.32E+05
07/20/96	1.86E+06	6.34E+06	3.61E+04	1.87E+06	7.04E+06	7.90E+06	5.52E+06	4.76E+05
07/21/96	3.17E+06	6.59E+06	6.69E+05	1.62E+06	8.03E+06	8.41E+06	7.36E+06	1.89E+05
07/22/96	2.54E+06	6.19E+06	2.83E+05	1.68E+06	8.04E+06	8.71E+06	5.79E+06	3.16E+05
07/23/96	4.00E+06	6.47E+06	6.20E+05	1.76E+06	7.55E+06	8.28E+06	5.04E+06	4.99E+05
07/24/96	3.65E+06	6.35E+06	6.61E+05	1.59E+06	7.54E+06	8.46E+06	2.71E+06	6.93E+05
07/25/96	3.12E+06	6.31E+06	-1.97E+04	1.51E+06	7.70E+06	8.39E+06	-3.10E+06	7.95E+05
07/26/96	1.75E+06	5.61E+06	1.71E+05	1.27E+06	7.62E+06	8.53E+06	6.71E+06	5.01E+05
07/27/96	3.18E+06	6.32E+06	9.66E+04	2.20E+06	7.58E+06	8.47E+06	5.35E+06	5.35E+05
07/28/96	4.02E+06	6.38E+06	8.90E+05	1.84E+06	7.72E+06	8.36E+06	6.83E+06	4.26E+05
07/29/96	4.01E+06	6.12E+06	-9.76E+03	1.46E+06	8.01E+06	8.55E+06	7.47E+06	2.54E+05
07/30/96	3.24E+06	6.02E+06	7.43E+05	1.28E+06	7.92E+06	8.12E+06	5.86E+06	2.07E+05
07/31/96	3.39E+06	6.32E+06	5.02E+05	1.93E+06	7.63E+06	8.34E+06	6.74E+06	4.59E+05

Headspace Grab Sample Results

Date:	SILO 1	SILO 2
07/02/96	6.26E+06	5.41E+06
07/05/96	6.33E+06	5.11E+06
07/09/96	8.41E+05	5.27E+06
07/11/96	5.76E+06	5.50E+06
07/15/96	6.40E+05	5.54E+06
07/18/96	7.18E+06	5.23E+06
07/22/96	4.90E+05	5.28E+06
07/25/96	1.51E+06	5.45E+06
07/30/96	4.34E+05	5.49E+06

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

Data loss from 7 - 10, 1996 was weather related (lightening)

STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial/complete data loss due to equipment malfunction.

**CONSOLIDATED CONSENT AGREEMENT / FEDERAL FACILITY COMPLIANCE AGREEMENT/
FEDERAL FACILITY AGREEMENT MONTHLY PROGRESS REPORT**

MONTH: JULY
YEAR: 1996

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

**SELECTED ENVIRONMENTAL MONITORING
RADON CONCENTRATIONS REPORT**

Report Generated:
10/10/96

Daily Averages	AMS 5	AMS 6	PILOT PLANT	BKGD 1	BKGD 2	K65,NW	K65,SW	K65,NE	K65,SE		
	(pCi/L)	(pCi/L)	WAREHOUSE (pCi/L)	(Fairfield) (pCi/L)	(Miami town) (pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)		
07/01/96	0.7	0.8	0.7	0.9	0.8	1.9	2.2	5.8	3.1		
07/02/96	1.0	0.8	0.5	0.9	0.8	1.8	1.8	8.8	5.7		
07/03/96	0.5	0.8	0.5	0.8	0.5	0.8	1.2	1.9	2.5		
07/04/96	0.7	0.8	0.8	1.0	0.8	1.1	1.8	3.8	2.3		
07/05/96	1.0	1.1	0.8	1.0	(b)	0.8	1.3	1.8	8.8	3.5	
07/06/96	1.0	1.1	0.9	N/A	(b)	0.7	1.8	2.3	8.8	8.2	
07/07/96	1.1	1.3	0.9	N/A	(b)	0.8	1.8	2.1	13.8	8.8	
07/08/96	0.8	0.7	0.8	N/A	(b)	0.8	1.4	(c)	1.5	7.4	3.7
07/09/96	0.8	0.7	0.8	N/A	(b)	0.5	N/A	(c)	1.1	3.3	2.4
07/10/96	0.8	0.7	0.5	N/A	(b)	0.5	N/A	(c)	1.5	2.4	1.9
07/11/96	0.9	0.9	0.7	N/A	(b)	0.8	N/A	(c)	2.3	8.2	4.8
07/12/96	1.1	1.1	0.9	N/A	(b)	0.7	2.2	(c)	2.0	11.4	7.8
07/13/96	1.0	1.1	0.8	N/A	(b)	0.7	2.3	2.0	8.8	4.1	
07/14/96	1.0	1.1	0.8	N/A	(b)	0.8	2.5	2.4	9.1	5.0	
07/15/96	0.5	0.8	0.8	N/A	(b)	0.5	1.3	1.3	2.3	2.2	
07/16/96	0.8	0.8	0.5	N/A	(b)	0.5	1.0	1.3	2.2	1.1	
07/17/96	0.9	0.8	0.7	N/A	(b)	0.8	1.8	1.8	7.2	3.3	
07/18/96	0.5	0.8	0.5	N/A	(b)	0.4	0.9	1.0	8.1	1.9	
07/19/96	0.5	0.5	0.5	N/A	(b)	0.4	0.8	1.0	2.5	1.5	
07/20/96	0.5	0.8	0.5	N/A	(b)	0.4	0.8	2.8	2.5	2.3	
07/21/96	0.8	0.8	0.7	N/A	(b)	0.8	3.0	3.8	3.0	2.4	
07/22/96	0.5	0.8	0.5	N/A	(b)	0.5	0.8	1.3	1.1	1.5	
07/23/96	0.8	0.7	0.8	N/A	(b)	0.5	1.4	1.4	5.0	3.5	
07/24/96	0.9	1.0	0.8	N/A	(b)	0.8	2.3	2.5	8.8	3.0	
07/25/96	0.5	0.8	0.5	N/A	(b)	0.5	1.8	1.5	4.1	3.2	
07/26/96	0.8	0.9	0.7	N/A	(b)	0.7	1.2	1.5	4.8	3.2	
07/27/96	0.9	1.0	0.7	N/A	(b)	0.7	1.3	1.8	5.5	2.8	
07/28/96	0.9	1.1	0.8	N/A	(b)	0.7	1.5	1.7	8.0	3.9	
07/29/96	1.1	1.1	0.8	0.7	(b)	0.7	3.3	2.9	11.3	8.4	
07/30/96	0.5	0.8	0.4	0.8	0.5	0.8	1.0	2.2	1.2		
07/31/96	0.8	0.7	0.5	0.8	0.5	1.2	1.3	8.2	3.8		

Monthly Statistics

	AMS 5	AMS 6	PILOT	BKGD 1	BKGD 2	K65,NW	K65,SW	K65,NE	K65,SE
AVERAGE:	0.8	0.8	0.7	0.9	0.8	1.8	1.8	5.7	3.8
MAXIMUM:	1.1	1.3	0.9	1.0	0.8	3.3	3.8	13.8	8.8
MINIMUM:	0.5	0.5	0.4	0.7	0.4	0.8	1.0	1.1	1.1
MEDIAN:	0.7	0.8	0.8	0.8	0.8	1.4	1.6	5.7	3.2
STD. DEV.:	0.2	0.2	0.1	0.1	0.1	0.7	0.8	3.2	2.0

STANDARD LEGEND: 1. "(a)" indicates censored data due to erroneous readings from the monitoring equipment.
2. "(b)" indicates partial or complete data loss due to monitor malfunction.
3. "(c)" indicates partial or complete data loss due to programming error in monitor.

MONTHLY PROGRESS REPORT

MONTH: AUGUST
YEAR: 1996

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

K-65 SILO REPORT
RADON CONCENTRATIONS

Summary of Continuous Monitoring Results

Report Date: 10/10/96

Daily Statistics	SILO 1				SILO 2			
	Average	Maximum	Minimum	Std. Dev.	Average	Maximum	Minimum	Std. Dev.
08/01/96	3.14E+06	6.26E+06	2.34E+05	1.68E+06	7.69E+06	8.51E+06	6.92E+06	4.44E+05
08/02/96	3.61E+06	6.92E+06	-1.92E+04	2.29E+06	6.53E+06	8.43E+06	-3.10E+06	1.74E+06
08/03/96	3.68E+06	6.58E+06	3.31E+05	2.01E+06	5.51E+06	6.20E+06	4.87E+06	3.37E+05
08/04/96	4.01E+06	6.46E+06	5.51E+05	1.94E+06	5.40E+06	5.95E+06	4.69E+06	3.22E+05
08/05/96	4.24E+06	6.56E+06	9.99E+05	1.81E+06	5.21E+06	5.76E+06	4.53E+06	3.38E+05
08/06/96	4.37E+06	6.67E+06	2.30E+05	1.96E+06	6.30E+06	7.77E+06	-2.27E+06	9.82E+05
08/07/96	4.65E+06	7.02E+06	4.49E+05	2.07E+06	7.31E+06	8.02E+06	6.33E+06	5.10E+05
08/08/96	4.01E+06	6.72E+06	9.57E+05	1.69E+06	7.55E+06	7.93E+06	5.37E+06	3.44E+05
08/09/96	1.78E+06	5.89E+06	1.72E+05	1.32E+06	7.60E+06	8.13E+06	6.79E+06	2.82E+05
08/10/96	3.48E+06	6.77E+06	6.40E+05	2.08E+06	7.47E+06	7.94E+06	6.70E+06	3.06E+05
08/11/96	2.63E+06	5.90E+06	5.20E+05	1.43E+06	7.68E+06	8.11E+06	6.74E+06	2.87E+05
08/12/96	2.51E+06	6.52E+06	4.22E+05	1.62E+06	7.83E+06	8.36E+06	6.83E+06	3.65E+05
08/13/96	3.17E+06	6.63E+06	2.80E+05	1.98E+06	7.68E+06	8.57E+06	6.71E+06	5.69E+05
08/14/96	3.72E+06	6.84E+06	1.23E+05	2.24E+06	7.69E+06	8.45E+06	6.74E+06	5.21E+05
08/15/96	3.47E+06	6.62E+06	6.83E+05	1.72E+06	7.74E+06	8.45E+06	-3.10E+06	8.07E+05
08/16/96	3.28E+06	6.28E+06	4.02E+05	1.57E+06	7.71E+06	8.62E+06	6.79E+06	5.15E+05
08/17/96	3.12E+06	6.45E+06	3.29E+05	1.82E+06	7.75E+06	8.38E+06	6.84E+06	4.25E+05
08/18/96	3.46E+06	6.67E+06	3.75E+05	2.25E+06	7.67E+06	8.36E+06	6.66E+06	4.55E+05
08/19/96	4.27E+06	6.76E+06	5.16E+05	2.14E+06	7.44E+06	8.27E+06	1.08E+06	7.17E+05
08/20/96	4.23E+06	6.78E+06	6.92E+05	2.05E+06	7.47E+06	8.14E+06	6.41E+06	4.87E+05
08/21/96	4.25E+06	6.70E+06	7.41E+05	1.81E+06	7.40E+06	8.15E+06	6.38E+06	5.28E+05
08/22/96	4.45E+06	6.87E+06	1.56E+05	2.05E+06	7.43E+06	8.11E+06	-2.50E+06	7.47E+05
08/23/96	3.69E+06	6.53E+06	7.05E+05	1.70E+06	7.60E+06	1.56E+07	-1.41E+05	7.98E+05
08/24/96	2.50E+06	6.43E+06	2.46E+04	1.91E+06	7.88E+06	8.25E+06	6.95E+06	2.89E+05
08/25/96	4.00E+06	6.88E+06	1.36E+05	2.42E+06	7.67E+06	8.23E+06	7.15E+06	3.54E+05
08/26/96	3.44E+06	6.73E+06	2.20E+05	2.26E+06	7.68E+06	8.36E+06	-2.34E+06	8.00E+05
08/27/96	2.69E+06	6.32E+06	9.41E+04	1.90E+06	7.94E+06	8.50E+06	7.07E+06	3.39E+05
08/28/96	2.48E+06	6.48E+06	3.27E+05	1.80E+06	7.56E+06	8.48E+06	6.69E+06	6.64E+05
08/29/96	3.49E+06	7.02E+06	3.48E+05	2.27E+06	7.13E+06	7.52E+06	3.19E+06	3.43E+05
08/30/96	2.66E+06	6.52E+06	2.07E+05	1.84E+06	7.14E+06	7.45E+06	2.03E+06	3.69E+05
08/31/96	2.76E+06	6.40E+06	2.01E+05	1.79E+06	7.18E+06	7.50E+06	6.67E+06	2.31E+05

Headspace Grab Sample Results

Date:	SILO 1	SILO 2
08/02/96	4.77E+06	4.63E+06
08/06/96	7.16E+06	5.18E+06
08/08/96	3.57E+06	5.10E+06
08/12/96	4.74E+04	5.53E+06
08/15/96	4.47E+06	5.52E+06
08/19/96	6.51E+06	5.05E+06
08/22/96	7.14E+06	5.07E+06
08/26/96	4.79E+05	5.39E+06
08/30/96	2.48E+05	5.47E+06

NOTES: Negative values may occur when input values from the DAQ system are low, due to regression parameters used in determining concentrations. The low value phenomenon is caused by problems associated with the DAQ system (i.e. power surges, equipment failure, grab sampling, etc.).

Negative values are also observed when the Pylon monitor is powered down in order to change data tapes.

STANDARD LEGEND:

1. All values reported in pCi/L.
2. Data reported to three significant digits to remain consistent with the calibration data.
3. Shaded Cells indicate partial(> 10%)/complete data loss due to equipment malfunction.

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MONTHLY PROGRESS REPORT

MONTH: AUGUST
YEAR: 1996

FACILITY: Fernald Environmental Management Project
U.S. Department of Energy
7400 Willey Road, P.O. Box 538704
Cincinnati, Ohio 45253 Hamilton

SELECTED ENVIRONMENTAL MONITORING
RADON CONCENTRATIONS REPORT

Report Generated:
10/10/96

Daily Averages	AMS 5	AMS 6	PILOT PLANT	BKGD 1	BKGD 2	K65.NW	K65.SW	K65.NE	K65.SE	
	(pCi/L)	(pCi/L)	WAREHOUSE (pCi/L)	(Fairfield) (pCi/L)	(Miami town) (pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	
08/01/96	0.9	1.0	0.7	0.8	(b)	0.8	2.0	1.9	10.1	5.2
08/02/96	1.0	1.0	0.7	1.0		0.7	1.3	1.8	5.8	4.0
08/03/96	1.2	1.2	0.8	1.0		0.7	1.8	1.9	6.6	5.1
08/04/96	1.3	1.3	0.8	1.0		0.7	1.6	2.6	8.1	5.4
08/05/96	1.1	1.1	0.8	0.9		0.7	2.0	2.2	8.8	6.3
08/06/96	1.4	1.4	0.9	1.0		0.8	1.8	2.2	7.1	5.1
08/07/96	1.5	1.3	0.9	1.1		0.8	1.7	2.1	9.2	6.7
08/08/96	1.3	1.2	0.8	0.9		0.7	2.6	2.9	7.8	5.8
08/09/96	0.7	0.8	0.8	0.8		0.8	1.4	1.3	7.1	6.2
08/10/96	1.2	1.1	0.8	1.0		0.7	1.5	2.0	9.6	8.0
08/11/96	1.1	1.2	0.7	1.0		0.7	1.8	4.4	5.3	5.7
08/12/96	0.7	0.8	0.8	0.9		0.6	1.6	3.3	1.7	2.8
08/13/96	1.3	1.3	0.9	1.0		0.8	1.5	1.8	4.9	5.3
08/14/96	1.5	1.5	1.0	1.0		0.8	1.9	2.3	7.5	5.7
08/15/96	1.3	1.4	0.8	1.0	(b)	0.7	1.7	2.2	11.4	6.7
08/16/96	0.9	1.0	0.7	N/A	(b)	0.8	1.8	2.3	4.9	4.3
08/17/96	1.4	1.3	0.9	N/A	(b)	0.8	1.5	2.1	10.1	6.9
08/18/96	1.4	1.3	0.8	N/A	(b)	0.8	1.8	2.4	5.0	4.2
08/19/96	1.4	1.3	0.8	0.9		0.8	1.7	2.3	6.1	3.5
08/20/96	1.6	1.5	1.0	0.9		0.8	1.9	2.2	7.0	6.1
08/21/96	1.4	1.4	0.9	N/A	(b)	0.8	1.8	2.4	7.3	4.5
08/22/96	1.6	1.4	0.9	N/A	(b)	0.8	1.7	2.2	6.6	7.2
08/23/96	1.6	1.6	1.0	N/A	(b)	0.8	1.7	2.1	6.3	5.2
08/24/96	0.7	0.8	0.5	N/A	(b)	0.5	1.4	2.7	4.1	3.5
08/25/96	1.1	1.2	0.8	N/A	(b)	0.8	1.5	2.1	10.0	11.9
08/26/96	1.4	1.4	1.0	N/A	(b)	0.8	1.7	2.7	12.3	9.1
08/27/96	1.5	1.5	1.0	N/A	(b)	0.9	2.1	3.1	10.3	10.3
08/28/96	1.2	1.3	0.9	N/A	(b)	0.8	1.5	1.9	4.8	3.3
08/29/96	1.5	1.4	0.9	N/A	(b)	0.9	1.7	2.6	7.0	6.3
08/30/96	1.4	1.3	0.8	N/A	(b)	0.7	0.9	3.2	6.3	6.3
08/31/96	1.6	1.5	1.0	N/A	(b)	0.9	0.9	2.9	9.1	11.5

Monthly Statistics

	AMS 5	AMS 6	PILOT	BKGD 1	BKGD 2	K65.NW	K65.SW	K65.NE	K65.SE
AVERAGE:	1.3	1.2	0.8	0.9	0.7	1.7	2.4	7.4	5.9
MAXIMUM:	1.6	1.6	1.0	1.1	0.9	2.6	4.4	12.3	11.9
MINIMUM:	0.7	0.8	0.5	0.8	0.5	0.9	1.3	1.7	2.6
MEDIAN:	1.3	1.3	0.8	0.8	0.8	1.7	2.2	7.1	5.8
STD. DEV:	0.3	0.2	0.1	0.1	0.1	0.3	0.6	2.3	2.0

STANDARD LEGEND: 1. "(a)" indicates censored data due to erroneous readings from the monitoring equipment.
2. "(b)" indicates partial or complete data loss due to monitor malfunction.
3. "(c)" indicates partial or complete data loss due to programming error in monitor.

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