



ENERGY AND ENVIRONMENT CABINET

Matthew G. Bevin
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
200 FAIR OAKS LANE
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-6716
FAX (502) 564-4049
www.waste.ky.gov

Charles G. Snively
Secretary

R. Bruce Scott
Commissioner

January 7, 2016

Mr. Robert E. Edwards III, Manager
US Department of Energy
Portsmouth/Paducah Project Site Office
5501 Hobbs Road
Kevil, Kentucky 42053

Mr. Cornelius Murphy
Fluor Federal Services, Inc.
5501 Hobbs Road
Kevil, Kentucky 42053

RE: Notice of Permit Decision
Paducah Site
Paducah, McCracken County, Kentucky
KY8-890-008-982

Mr. Edwards and Mr. Murphy:

The Kentucky Division of Waste Management (Division) is in receipt of the Class #1 Permit Modification request (Mod #1) to the Hazardous Waste Facility Permit (HWFP) dated December 7, 2015. The primary intent of this request is as follows:

- 1) Change DOE Contact Person, Class 1 change per 40 CFR § 270.42, Appendix I, A.1., Administrative and informational change (Page A-3).
- 2) Change DOE Contact Person, Class 1 change per 40 CFR § 270.42, Appendix I, A.1., Administrative and informational change (Page A-10).
- 3) Change DOE Contact Person, Class 1 change per 40 CFR § 270.42, Appendix I, A.1., Administrative and informational change (Page G-1).

- 4) Change DOE Contact Person, Class 1 change per 40 CFR § 270.42, Appendix I, A.1., Administrative and informational change (Page I2-6).
- 5) Change Mower type reference, Class 1 change per 40 CFR § 270.42, Appendix I, A.3., Equipment replacement or upgrading with functionally equivalent components (e.g. pipes, valves, pumps, conveyers, controls).

A Class #1 Permit Modification requires the permittee to send a notice of the modification to all persons on the facility mailing list within 90 calendar days after the change is put into effect. The permittee has stated that the notice will be issued no later than March 2, 2016.

Please find attached, Modification #1, to the Hazardous Waste Management Facility Permit issued to the U.S. Department of Energy (DOE) and Fluor Federal Services, Inc. Please insert the attached cover sheet and the permit modifications in front of the cover sheet of the existing permit.

If you are aggrieved by this decision, you may request a hearing. The request must be made in writing within thirty (30) days of your receipt of this decision and must conform to KRS 224.10-420(2). The requirement of condition T-125 of the attached permit and 401 KAR 38:070 - Section 6, is to keep records of all data used to complete the permit modification application for at least three (3) years.

If you have any questions or require additional information, please contact Leo W. Williamson at (502) 564-6716, ext. 4683 or e-mail at leo.williamson@ky.gov.

Sincerely,


Anthony R. Hatton, Director
Division of Waste Management

ARH:bb;jmg:lww

Ec: Julie Corkran, US EPA – Region 4; corkran.julie@epa.gov
Jon Richards, US EPA – Region 4; Richards.jon@epa.gov
Carlos Merizalde, US EPA – Region 4; Merizalde.carlos@epa.gov
Denise Housley, US EPA – Region 4; Housley.Denise@epa.gov
Meredith Anderson, US EPA – Region 4; Anderson.Meredith@epa.gov
Robert E. Edwards III, DOE – Paducah; Robert.edwards@lex.doe.gov
David Dollins, DOE – Paducah; dave.dollins@lex.doe.gov
Jennifer Woodard, DOE – Paducah; Jennifer.Woodard@lex.doe.gov
Tracey Duncan, DOE – Paducah; tracey.duncan@lex.doe.gov
Kim Knerr, DOE – Paducah; kim.Knerr@lex.doe.gov
Rose Wigton, DOE – Lexington; rose.wigton@lex.doe.gov

Paula Rhea, DOE – Lexington; paula.rhea@lex.doe.gov
Mark J. Duff, Fluor Federal Services – Kevil; mark.duff@ffspaducah.com
Myrna Redfield, Fluor Federal Services – Kevil; Myrna.Redfield@ffspaducah.com
John Wesley Morgan, Fluor Federal Services – Kevil; John.Morgan@ffspaducah.com
Jana White, Fluor Federal Services – Kevil; jana.white@ffspaducah.com
Michael Gerle, Fluor – Kevil; Michael.gerle@FFSpaducah.com
Christopher Travis, Fluor – Kevil; Christopher.travis@FFSpaducah.com
Stan Knaus, Fluor Federal Services – Kevil; stan.knaus@ffspaducah.com
Karen Walker, Fluor Federal Services – Kevil; Karen.walker@ffspaducah.com
Darla Bowen, Fluor Federal Services – Kevil; Darla.bowen@ffspaducah.com
Karla Morehead, P2S – Paducah; karla.morehead@lex.doe.gov
Christa Dailey, P2S – Paducah; christa.dailey@lex.doe.gov
Bethany Jones, P2S – Paducah; Bethany.jones@lex.doe.gov
Paige Sullivan, P2S – Paducah; paige.sullivan@lex.doe.gov
Jim Ethridge, CAB – Paducah; jim@pgdpcab.org
Brian Begley, KDWM – Frankfort; brian.begley@ky.gov
Mike Guffey, KDWM - Frankfort; mike.guffey@ky.gov
Gaye Brewer, KDWM – Paducah; gaye.brewer@ky.gov
Leo Williamson, KDWM – Frankfort; Leo.Williamson@ky.gov

DWM File: #1411; Graybar: APE20150005 (Permit Mod #1)

Attachment: Permit Modification #1

**Kentucky Energy and Environment Cabinet
Department for Environmental Protection
Division of Waste Management**

**HAZARDOUS WASTE MANAGEMENT FACILITY PERMIT
MODIFICATION 1**

United States Department of Energy, Paducah Site, and
Fluor Federal Services, Inc.
5501 Hobbs Road
Kevil, Kentucky 42053

The Division of Waste Management hereby grants the above-named facility a permit modification to reflect the transfer of operational control at the PGDP. This permit modification has been issued under the provision of KRS Chapter 224 and 401 KAR 38:040, Section 2, effective October 21, 2008, and is subject to all conditions and operating limitations contained herein. Issuance of this permit modification does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet and/or other federal, state, and local agencies.

Part I	-Legal Authority
Part II	-Specific Conditions
Part III	-Standard Conditions
Part IV	-Corrective Action
Part V	-Waste Minimization
Part VI	-Land Disposal Restrictions
Part VII	-RCRA Air Emission Standards
Part VIII	-Referenced Attachments

No deviation from the plans and specifications submitted with your application or the conditions specified herein is allowed, unless authorized in writing from the Division of Waste Management. Violation of the terms and conditions specified herein shall render this permit null and void. All rights of inspection by representatives of the Division of Waste Management are reserved. Conformance with all applicable Waste Management Regulations is the responsibility of the permittee. Receipt of the permit fee and financial assurance specified below is hereby acknowledged.

PERMIT TYPE:	Operating	PERMIT NUMBER:	KY8-890-008-982
TYPE OF ACTIVITY:	Storage, Treatment & Post-closure	COUNTY:	McCracken
PERMIT FEE:	N/A	EFFECTIVE DATE:	January 7, 2016
CLOSURE AMOUNT:	N/A	EXPIRATION DATE:	August 25, 2025
POST-CLOSURE AMOUNT:	N/A		
CLOSURE INSTRUMENT:	N/A		
SUDDEN LIABILITY INSURANCE:	N/A		
HAZARDOUS WASTE MANAGEMENT UNITS:	Tanks, Containers and Landfill		
NON-SUDDEN LIABILITY INSURANCE:	N/A		

Issued this 7th day of January, 2016



Anthony R. Hatten, Director,
Division of Waste Management

Kentucky Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division of Waste Management
14 Reilly Road - Frankfort, Kentucky 40601

DO NOT WRITE IN THIS SPACE

**Part A of the Kentucky Hazardous Waste
Permit Application**

Facility's EPA ID No.

K	Y	8	8	9	0	0	0	8	9	8	2
---	---	---	---	---	---	---	---	---	---	---	---

FOR OFFICIAL USE ONLY

Fee Submitted \$

Receipt No.

Date:

FIRST SUBMITTAL (see INSTRUCTIONS) REVISION

PAGE 1 OF 9

RENEWAL

1. Name of Facility: U.S. Department of Energy, Paducah Site

2. Location of Facility: 5501 Hobbs Road

City: Kevil State: Kentucky Zip Code: 42053

3. County: McCracken See INSTRUCTIONS: Latitude: 37° 6' 41.95" Longitude: 88° 48' 46.09"

4. Name of Land Owner: See INSTRUCTIONS: U.S. Department of Energy

Legal status of Land Owner: Federal (F) State (S) County (C) Indian (I)

Municipal (M) District (D) Private (P)

Other (O) specify: _____

Land Owner's Mailing Address: 5501 Hobbs Road

City: Kevil State: Kentucky Zip Code: 42053

Facility Land Owner's Telephone Number: (270) 441-6800

5. Existing Facilities, provide the date operation began or construction commenced: January 1, 1952
(Month, Day, Year)

New Facilities, provide the date operation is expected to begin: NA
(Month, Day, Year)

6. Facility Mailing Address: 5501 Hobbs Road

City: Kevil State: Kentucky Zip Code: 42053

7. Facility Contact Person: Robert E. Edwards, III

Title: Acting Manager, Portsmouth/Paducah Project Office Phone Number: (859) 219-4000

Facility Contact Person may be reached at: Mailing Address Location Address Other Specify:

Street Address: 1017 Majestic Drive, Suite 200

City: Lexington State: KY Zip Code: 40513

K	Y	8	8	9	0	0	0	8	9	8	2
---	---	---	---	---	---	---	---	---	---	---	---

13. Existing Environmental Permits:

Inter-State Regional Program [A]: _____
 Single Well (FURS) [B]: _____
 County Program [C]: _____
 DOE Program [D]: _____
 Other EPA Program [E]: _____ specify: _____
 EPA 404 (dredge or fill program) [F]: _____
 USGS Program [G]: _____
 Area Wells (FURS) [H]: _____
 NOTIS [J]: _____
 Superfund (CERCLIS) [K]: _____
 FATES [L]: _____
 Municipal (city, town, etc.) Program [M]: _____
 NPDES/KPDES (discharges to surface water) [N]: KY0004049. KY0102083
 PSD (prevention of significant deterioration - Clean Air Act) [P]: _____
 CDS [Q]: _____
 RCRA (hazardous wastes) [R]: KY8-890-008-982
 State Program [S]: Title V. Operating Permit. V-14-012
 DOT Program [T]: _____
 UIC (underground injection of fluids) [U]: _____
 Intra-State Regional Program [W]: _____
 Other Federal Program [X]: _____ specify: _____
 CICIS (OTS Chemicals in Commerce Information System) [Y]: _____
 Other Non Federal Programs [Z]: Landfill 073-00014, 073-00015, 073-00045

14. FACILITY STATUS:

Waste is NOT received from off-site Accepts waste from any off-site source(s) [A]
 Accepts waste from only a restricted group of off-site sources(s) [R]:
 Specify: _____

15. PHOTOGRAPHS, DRAWING AND MAP - See INSTRUCTIONS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment or disposal areas; and sites of future treatment, storage or disposal areas. All existing facilities must include a drawing showing the general layout of the facility and a topographic map. The photographs, drawing and map must be attached to this form.

16. If the facility owner is also the facility operator, please skip this section and complete item 17 below.

Owner Certification - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that 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.

NAME (PRINT OR TYPE)	SIGNATURE	DATE SIGNED
17. Operator Certification - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that 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. (Certification Preamble on Page 9)		
Robert E. Edwards, III, Acting Manager, Portsmouth/Paducah Project Office, Co-Operator	<i>Robert E. Edwards III</i>	12/10/15
NAME (PRINT OR TYPE)	SIGNATURE	DATE SIGNED
Cornelius Murphy, Program Manager, Fluor Federal Services, Inc.	<i>C. Murphy</i>	12/10/15
NAME (PRINT OR TYPE)	SIGNATURE	DATE SIGNED
18. Land Owner Certification - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that 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.		
Robert E. Edwards, III, Acting Manager, Portsmouth/Paducah Project Office	<i>Robert E. Edwards III</i>	12/10/15
NAME (PRINT OR TYPE)	SIGNATURE	DATE SIGNED

CERTIFICATION PREAMBLE

Document Identification: **Part A of the Kentucky Hazardous Waste Permit Application,
KY8-890-008-982, Agency Interest No. 3059**

The U.S. Department of Energy (DOE) has signed as "owner and co-operator" and Fluor Federal Services, Inc. (FFS) has signed as "operator" of the permitted facility. DOE has determined that multiple signatures best reflect the actual apportionment of responsibility under which DOE's RCRA responsibilities are for policy, programmatic, funding, and scheduling decisions and FFS's RCRA responsibilities are for day-to-day operations, including but not limited to, the following responsibilities: waste analysis and handling, monitoring, record keeping, reporting, contingency planning. For purposes of the certification required by 40 C.F.R. Section 270.11(d) and 401 KAR 38:070, Section 7, DOE's and FFS's representatives certify, to the best of their knowledge and belief, the truth, accuracy and completeness of the application for their respective areas of responsibility.

1. INTRODUCTION

This Contingency Plan is for the Paducah Site hazardous waste facilities, which are owned by the U.S. Department of Energy (DOE)¹ and operated under contract with Fluor Federal Services, Inc. (FSS). The Paducah Site is located in McCracken County, Kentucky, near U.S. Highway 60 on a federally owned reservation. Figure 1 shows a general plan of the facility.

All Resource Conservation and Recovery Act (RCRA)-permitted treatment and storage facilities at the Paducah Site are owned by DOE and operated by FSS. The point of contact for DOE is as follows:

Mr. Robert E. Edwards, III, Acting Manager
Portsmouth/Paducah Project Office
U.S. Department of Energy
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513

The primary contact for hazardous waste storage and treatment activities is as follows:

Mr. Cornelius Murphy, Program Manager
Fluor Federal Services, Inc.
P.O. Box 369
Kevil, Kentucky 42053

The RCRA emergency response organization at Paducah Site includes representatives from DOE and each of its contractors/subcontractors. The plant shift superintendent (PSS), or designee, directs initial emergency response activities.

On-site emergency response organization provides initial emergency response services, including firefighting, emergency medical response, hazardous material incident response, rescue, salvage, and radiological response. This service will be provided upon request or upon activation of automatic alarm located in all on-site facilities. The PSS, or designee, will contact the appropriate project manager, or designee, if the emergency involves any RCRA-permitted facilities or DOE waste accumulation areas. The Paducah Site Crisis Manager assigns a recovery manager to direct the recovery phase (final stage of RCRA emergency response).

1.1 C-733 HAZARDOUS WASTE STORAGE AND TREATMENT FACILITY

The C-733 Hazardous Waste Storage and Treatment Facility is a partially sided, roofed, and diked storage area used to store spent solvents, paint wastes, mineral spirits, containers of waste chemicals, and other miscellaneous waste materials. Wastes may be stored in containers or in one of the four hazardous waste storage tanks. Polychlorinated biphenyl (PCB) wastes also are stored in containers and tanks at C-733. Reactive and incompatible wastes will not be managed in the storage tanks, but may be managed in

¹ For purposes of this application, the acronym DOE refers to the U.S. Department of Energy Paducah Site.

The annual groundwater flow rate and direction shall be submitted by November 30 of each year of the postclosure period. Analytical results of leachate sampling will be submitted to the KDWM along with semiannual groundwater sampling results.

All Resource Conservation and Recovery Act permitted treatment and storage facilities at the Paducah Site are owned by DOE. The DOE point of contact during the postclosure care period is as follows.

Mr. Robert E. Edwards, III, Acting Manager
Portsmouth/Paducah Project Office
U.S. Department of Energy
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513

1.8. EXAMPLE INSPECTION FORMS

Attached are examples of the inspection forms that will be used for C-404 inspections.

C-404 Quarterly Inspection Checklist^{1,5}

Item No.	Inspection Item	Item Description	Inspection Results		Comments/Observations
			A	U	
A	Warning Signs	Four signs around landfill			
		Fence post anchors			
		Sign legible			
		Sign damaged			
B	Vegetative Cover ²	Gully erosion depth > 6 inches			
		Vegetative die-off			
		Varmint intrusion/burrowing from animals			
		Overgrowth			
		Depressions			
C	Ditches ³	Debris in ditches			
		Excessive sediment			
		Drainage			
		Erosion			
D	Anchor Trench ⁴	Washouts or depressions			
		Lack of discharge			
		Unusual volume or color			
		Drainage (4 drains from landfill)			
		Cracks or damage			
E	Leachate System ⁶	Interior cracks or damage			
		Exterior cracks or damage			
Inspector: _____ (Printed Name)			Signature: _____ Date: _____ Time: _____		

A=Acceptable
U=Unacceptable

NOTES:

1. If item is unacceptable then explain condition that is not acceptable in comment/observation section.
2. For Item No. B, the vegetative cover shall be mowed regularly during the active growing season to discourage the growth of weeds, competitive species, or deep-rooted vegetation. Mowing shall be conducted in a manner that prevents airborne contaminants. A radiation work permit will be required. Any erosion damage greater than 6 inches will be repaired by restoring to its original grade and reseeding. Differential settlement will be repaired by restoring site to its original grade and reseeding.
3. For Item No. C, blockage of or damage to the system shall be repaired by removing debris and accumulated sediment and restoring the ditch to its original grade. Ditches shall be reseeded and additional gravel shall be installed as needed.
4. For Item No. D, drainage pipe failures shall be repaired by removing the failed pipe, installing a new section, and replacing the fill material as necessary. Anchor trench and the 4 drains also shall be inspected following one rainfall event each quarter to check for unusual flow or lack of discharge.
5. The forms shall be kept on file in the facility operating record.
6. Leachate system is inspected after leachate removal but at least quarterly.