

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.

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FOR OFFICIAL USE ONLY

Fee Submitted \$

Receipt No.

Date:

FIRST SUBMITTAL (see INSTRUCTIONS)
RENEWAL

REVISION

PAGE 1 OF 12

1. Name of Facility: U.S. Department of Energy, Paducah Gaseous Diffusion Plant

2. Location of Facility: 5600 Hobbs Road

City: West Paducah State: Kentucky Zip Code: 42086

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: P.O. Box 1410

City: Paducah State: Kentucky Zip Code: 42002-1410

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: P.O. Box 1410

City: Paducah State: Kentucky Zip Code: 42002-1410

7. Facility Contact Person: W. Don Seaborg

Title: Paducah Site Manager Phone Number: (270) 441-6800

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

Street Address: _____

City: _____ State: _____ Zip Code: _____

Facility's EPA ID Number											
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8. Name of Facility Operator: *See INSTRUCTIONS:* U.S. Department of Energy, Co-operator Bechtel Jacobs Company LLC

Type of Owner: Federal (F) State (S) County (C) Indian (I)

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

Other (O) specify: Bechtel Jacobs Company LLC is a private contractor to DOE and is a co-operator with DOE for hazardous waste management activities.

Operator's Mailing Address: P.O. Box 1410

City: Paducah State: Kentucky Zip Code: 42002-1410

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

New Operator Assumed Responsibility for Facility on this Date: New Co-operator assumed responsibility on April 1, 1998
(Month, Day, Year)

9. Name of Facility 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: _____

Owner's Mailing Address: P.O. Box 1410

City: Paducah State: Kentucky Zip Code: 42002-1410

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

New Operator Assumed Responsibility for Facility on this Date: NA
(Month, Day, Year)

10. SIC Codes: (1) 2819 (2) 8741 (3) 8711 (4) 8744

Briefly describe the type of business conducted at this site: Isotopic enrichment of uranium hexafluoride - although DOE is no longer responsible for production, they are responsible for the management of legacy wastes and remedial activities. Operations conducted at this facility in the past and present generate hazardous wastes. The majority of these hazardous wastes contain radioactive constituents. The combination of hazardous and radioactive constituents is "mixed" waste. There are limited disposal operations for mixed wastes. Therefore, DOE stores wastes greater than 90-days which requires the use of storage facilities. In addition, this waste may require on-site treatment to facilitate proper disposal.

11. PROCESS DESCRIPTION. See Instructions

Commercial Indicator	Unique Unit or Group Name	Legal Status Code	Process Codes	Process Design Capacity Of All Units Listed Under This Name	Unit of Measure	Number Of Individual Units In This Process	Operating Status Code	Description Of Process
4	C404LLRAD	PC	D80	5	A	1	CP	Low-level Radioactive Waste Burial Ground
4	C746ASTORG	PI	S01	561,440	G	1	OP	Hazardous and Mixed Waste Storage
4	C746ASTORG	PR	T04	1,000	U	1	CN	Treatment by Absorption and Decanting in Containers.
4	C746AFLUCR	PI	T04	4,800	J	6	OP	Fluorescent Lamp Crushing – treatment by absorption and size reduction. (Only one operating unit has been purchased. Six
4	C746AFLUCR	PI	SO1	330	G	6	OP	Storage of crushed light bulbs in 55-gallon containers.
4	C746QSTORG	PI	S01	306,240	G	1	OP	Hazardous and Mixed Waste Storage
4	C746QSTAB	PI	T04	5,000	U	1	OP	Treatment by neutralization, oxidation, reduction, precipitation, and stabilization in containers.
4	C746QFLUCR	PI	S01	330	G	6	BC	Storage of crushed light bulbs in 55-gallon containers.

11. PROCESS DESCRIPTION. See Instructions

Commercial Indicator	Unique Unit or Group Name	Legal Status Code	Process Codes	Process Design Capacity Of All Units Listed Under This Name	Unit of Measure	Number Of Individual Units In This Process	Operating Status Code	Description Of Process
4	C746QFLUCR	PI	T04	4,800	J	6	BC	Fluorescent Lamp Crushing - treatment by absorption and size reduction.
4	C746QSTAB	PR	T04	1,000	U	1	CN	Treatment by decanting, and absorption in containers.
4	C752ASTORG	PI	S01	495,560	G	1	OP	Hazardous and Mixed Waste Storage
4	C752ASTAB	PR	T04	1,000	U	1	CN	Treatment by decanting, and absorption in containers.
4	C752ASTAB	PI	T04	5,000	U	1	OP	Treatment by neutralization, oxidation, reduction, precipitation, and stabilization in containers.
4	C733STORG	PI	S01	38,500	G	1	OP	Container Storage
4	C733STORG	PR	T04	700	U	1	CN	Treatment by decanting, and absorption in containers.
4	C733TANKS	PI	S02	12,000	G	4	OP	Tank Storage

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11. PROCESS DESCRIPTION. See Instructions

Commercial Indicator	Unique Unit or Group Name	Legal Status Code	Process Codes	Process Design Capacity Of All Units Listed Under This Name	Unit of Measure	Number Of Individual Units In This Process	Operating Status Code	Description Of Process
4	DMSAC40004	NR	S01	550	G	1	IN	Storage
4	DMSAC33110	NR	S01	1	G	1	IN	Storage
4	DMSAC33505	NR	S01	1	G	1	IN	Storage
4	DMSAC33115	NR	S01	60	G	1	IN	Storage
4	DMSAC33331	NR	S01	31	G	1	IN	Storage
4	C753ASECTIONA	NR	S01	5	G	1	CR	Storage of TSCA regulated wastes
4	C-746H3ROWI07	NR	S01	30	G	1	CR	Storage of non-RCRA/non-TSCA wastes

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11. PROCESS DESCRIPTION. See Instructions

Commercial Indicator	Unique Unit or Group Name	Legal Status Code	Process Codes	Process Design Capacity Of All Units Listed Under This Name	Unit of Measure	Number Of Individual Units In This Process	Operating Status Code	Description Of Process
4	DMSAOS03	NR	S01	55	G	1	IN	Storage
4	DMSAOS05	NR	S01	10	G	1	IN	Storage
4	DMSA0S09	NR	S01	20	G	1	IN	Storage
4	DMSA0S11	NR	S01	1	G	1	IN	Storage
4	DMSAOS12	NR	S01	1	G	1	IN	Storage
4	DMSAC40005	NR	S01	11	G	1	IN	Storage
4	DMSAC40901	NR	S01	1	G	1	IN	Storage

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11. PROCESS DESCRIPTION. See Instructions

Commercial Indicator	Unique Unit or Group Name	Legal Status Code	Process Codes	Process Design Capacity Of All Units Listed Under This Name	Unit of Measure	Number Of Individual Units In This Process	Operating Status Code	Description Of Process
4	DMSAC40902	NR	S01	5	G	1	IN	Storage
4	C746AWESTENDSMELT	NR	S01	3	G	1	IN	Storage
4	DMSAC33114	NR	S01	1	G	1	IN	Storage
4	DMSAC33321	NR	S01	1	G	1	IN	Storage
4	DMSAC33320	NR	S01	2	G	1	IN	Storage
4	DMSAC33106	NR	S01	1	G	1	IN	Storage
4	DMSAC33105	NR	S01	2	G	1	IN	Storage

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11. PROCESS DESCRIPTION. See Instructions

Commercial Indicator	Unique Unit or Group Name	Legal Status Code	Process Codes	Process Design Capacity Of All Units Listed Under This Name	Unit of Measure	Number Of Individual Units In This Process	Operating Status Code	Description Of Process
4	DMSAC31002	NR	S01	1	G	1	IN	Storage
4	DMSAC33116	NR	S01	2	G	1	IN	Storage

Facility's EPA ID Number											
K	Y	8	8	9	0	0	0	8	9	8	2

12. WASTE STREAM DESCRIPTION. See Instructions.

WASTE STREAM NUMBER	ESTIMATED ANNUAL WASTE AMOUNT	UNIT OF MEASURE	EPA WASTE NUMBERS	PROCESS CODES ASSOCIATED WITH THIS WASTE
1	0	TONS	D006, D008, D010	D80
2	1.5	TONS	D001, D00X, F00X, U00X	S01
3	0.5	TONS	D001, D00X, F00X, U00X	S01
4	0.75	TONS	D00X	S01, T04
5	0.25	TONS	D00X	S01, T04
6	0.25	TONS	D002, D006, D008	S01
7	1	TONS	D001, F001-F005	S01
8	0.5	TONS	F001-F005	S01
9	1	TONS	D006, D008, F001-F005	S01
10	1	TONS	D002, D00X, F00X	S01, T04
11	2.5	TONS	D00X, F00X, U00X	S01
12	0.25	TONS	D00X, F00X, P00X, U00X	S01
13	0.25	TONS	D004-D011, F001-F005	S01
14	0.25	TONS	D004-D011, F001-F005	S01
15	1.5	TONS	D00X, F00X, P00X, U00X	S01, T04
16	1	TONS	D00X, F00X, P00X, U00X	S01, T04

K	Y	8	8	9	0	0	0	8	9	8	2
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12. WASTE STREAM DESCRIPTION. See Instructions.

WASTE STREAM NUMBER	ESTIMATED ANNUAL WASTE AMOUNT	UNIT OF MEASURE	EPA WASTE NUMBERS	PROCESS CODES ASSOCIATED WITH THIS WASTE
17	5	TONS	D040	S01
18	0.10	TONS	D040	S01
19	2	TONS	D00X, F00X	S01
20	0.25	TONS	D006, D007, D008, D009	S01, T04
21	1	TONS	D00X, F00X	S01, T04
22	0.10	TONS	D001, D003	S01
23	0.25	TONS	D006, D008	S01
24	150	TONS	F039	S01
		TONS		

K	Y	8	8	9	0	0	0	8	9	8	2
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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, KYR100000
 PSD (prevention of significant deterioration - Clean Air Act) [P]: _____
 CDS [Q]: _____
 RCRA (hazardous wastes) [R]: _____
 State Program [S]: _____
 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.
 See attached

NAME (PRINT OR TYPE)	SIGNATURE	DATE SIGNED
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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.
 See attached

NAME (PRINT OR TYPE)	SIGNATURE	DATE SIGNED
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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.
 See attached

NAME (PRINT OR TYPE)	SIGNATURE	DATE SIGNED
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CERTIFICATION

Document Identification:

**Paducah Gaseous Diffusion Plant
Part A Application for the Hazardous Waste Management
Permit Renewal Application, KY8-890-008-982
Response to NOV dated November 12, 2002
NOV Tracking #: 6584**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

U.S. Department of Energy (DOE)
Owner and Operator

W. Don Seaborg, Paducah Site Manager

Date Signed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Bechtel Jacobs Company LLC
Co-Operator

Gordon L. Dover, Paducah Manager of Projects

Date Signed