Department of Energy

Portsmouth/Paducah Project Office
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513
(859) 219-4000

June 20, 2023

Ms. Myrna Redfield, Program Manager
Four Rivers Nuclear Partnership, LLC
5511 Hobbs Road
Kevil, Kentucky 42053

PPPO-02-10024471-23B

Dear Ms. Redfield:

DE-EM0004895: CONCURRENCE ON DELIVERABLE NO. 68, FINAL ANNUAL DOCUMENT OF POLYCHLORINATED BIPHENYLS FOR JANUARY 1, 2022, THROUGH DECEMBER 31, 2022, FRNP-RPT-0296

Reference: Letter from M. Redfield to M. Fultz, "Four Rivers Nuclear Partnership, LLC—For Concurrence—Deliverable No. 68—FINAL *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant*," (FRNP-23-7313), dated June 14, 2023

The U.S. Department of Energy reviewed the Four Rivers Nuclear Partnership, LLC submittal of Deliverable No. 68, Final *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky for January 1, 2022, through December 31, 2022*, FRNP-RPT-0296, and concurs with the document as submitted.

If you have any questions or require additional information, please contact Ryan Callihan at (740) 897-2835.

Sincerely,

APRIL LADD
Digitally signed by APRIL LADD
Date: 2023.06.20 14:49:07 -05'00'

April Ladd
Contracting Officer's Representative
Portsmouth/Paducah Project Office

I am not authorized to negotiate, or make any agreements or commitments, which involve a change in the scope, price, period of performance, terms or conditions of the contract. If you believe that a change has been directed as a result of this correspondence, then in accordance with contract clause DEAR 952.242-70 "Technical Direction," you are directed to contact the Contracting Officer, in writing, within five (5) working days after receipt of this letter (or email) and prior to taking any action as a result of this letter.

cc:
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FRNP-RPT-0296

Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2022–December 31, 2022

FOUR RIVERS NUCLEAR PARTNERSHIP, LLC

This document is approved for public release per review by:

JACKIE THOMPSON (Affiliate) Digitally signed by JACKIE THOMPSON (Affiliate) Date: 2023.06.14 10:10:04 -05'00'

FRNP Classification Support Date

FRNP-RPT-0296

Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2022–December 31, 2022

Date Issued—June 2023

U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

Prepared by
FOUR RIVERS NUCLEAR PARTNERSHIP, LLC,
Managing the
Deactivation and Remediation Project at the
Paducah Gaseous Diffusion Plant
under Contract No. DE-EM0004895

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CONTENTS

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TABLES

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ACRONYMS

CD	Certificate of Disposal
CFR	*Code of Federal Regulations*
CY	calendar year
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
RCRA	Resource Conservation and Recovery Act
TSDF	treatment, storage, and disposal facility
UHWM	Uniform Hazardous Waste Manifest
WTS	waste tracking system

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EXECUTIVE SUMMARY

This *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2022–December 31, 2022*, (Annual Document) was prepared to meet applicable requirements of the Toxic Substances Control Act, as codified in the *Code of Federal Regulations* at 40 *CFR* Part 761, Subpart J, *General Records and Reports*. The mailing address for the U.S. Department of Energy (DOE) Paducah Site is 5501 Hobbs Road, Kevil, Kentucky 42053. The physical address is 5600 Hobbs Road, Kevil, Kentucky 42053. The U.S. Environmental Protection Agency (EPA) Identification Number is KY8-890-008-982. The Annual Document provides records and information required by 40 *CFR* § 761.180(a), *Records and Monitoring, PCBs and PCB Items in service or projected for disposal*.

The Annual Records required by 40 *CFR* § 761.180(a)(1) are located in Sections 1–4 and address the signed manifests, certificates of disposal (CDs), waste storage area inspections, and spill cleanup activities, respectively. The information for the annual document log, which is required by 40 *CFR* § 761.180(a)(2), is located in Section 1 and Sections 5–7. The annual document log includes the name, address, and EPA identification number of the facility, unique manifest number of every polychlorinated biphenyl (PCB) waste manifest generated by the facility during the calendar year (CY) (Section 1), PCB electrical equipment remaining in service at the end of the CY (Section 5), information on PCB waste shipped off-site and stored at the facility (Section 6), and a PCB waste shipment receipt log (Section 7). The appendices contain the PCB waste manifests, PCB waste CDs, PCB waste storage area inspection records, and PCB waste inventory tables.

The PCB items in service and PCB activities at the Paducah Site for CY 2022 are summarized below:

PCB transformers in service as of 12/31/2022: 0
Total PCBs in kg in PCB transformers as of 12/31/2022: 0
PCB large capacitors in service as of 12/31/2022:.....0
PCB waste in kg[1] generated in CY 2022: 10,535
PCB waste in kg[2] shipped off-site for treatment/disposal in CY 2022:.....34,494
PCB waste in kg[3] remaining in storage for disposal as of 12/31/2022:.....2,310

Throughout CY 2022, the Paducah Site generated twenty-one manifested shipments of PCB wastes to off-site treatment/disposal facilities. Twenty-six CDs were received in CY 2022 for disposal of PCB wastes.

Due to the nature and history of operations at the Paducah Site, all PCB waste is suspected of being radiologically contaminated, and all PCB waste is considered potentially radiologically contaminated until it is certified otherwise. DOE has ongoing programs to characterize the radiological contamination of waste so it can be disposed of appropriately. In accordance with 40 *CFR* § 761.65, PCB wastes shall not be stored for more than one year. Radiologically contaminated PCB wastes may be stored beyond the one-year limit, as outlined in 40 *CFR* § 761.65(a)(1). Efforts to secure disposal of radioactive PCB waste items exceeding the one-year storage limitation are discussed in the *Uranium Enrichment Toxic Substances Control Act Compliance Agreement 2022 Annual Compliance Agreement Report January 1 through December 31, 2022, for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* FRNP-RPT-0300, dated May 2023, in accordance with the *Modification to the February 20, 1992, Compliance Agreement Between the United*

[1] The weights in kg are taken from the Waste Tracking System (WTS), Requests for Disposal, or generator-supplied information, and may be estimated.
[2] The weights in kg were taken from the Uniform Hazardous Waste Manifests, as shown in Table 1.1, which differ from WTS weights shown in Table D.4.
[3] See note 1.

States Department of Energy and the United States Environmental Protection Agency, Washington, D.C., Toxic Substances Control Act, approved May 30, 2017.

1. PCB WASTE MANIFESTS

Uniform Hazardous Waste Manifests (UHWMs) of polychlorinated biphenyl (PCB) wastes shipped by the facility during the calendar year (CY) are annual records required by 40 *CFR* § 761.180(a)(1)(i). This section of the *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2021–December 31, 2022*, (Annual Document) contains the information from the signed manifests of PCB wastes shipped off-site for disposal during CY 2022, which are included in Appendix A.

Twenty-one manifests with 46 containers of solid and liquid PCB wastes were shipped for disposal. Copies of the UHWMs are located in Appendix A. PCB wastes were shipped to the following disposal sites:

- Energy*Solutions* disposal facility in Clive, Utah; and
- Waste Control Specialists, LLC, disposal facility in Andrews, Texas.
- Perma-Fix of Florida disposal facility in Gainesville, Florida.

Table 1.1 summarizes the 2022 manifested PCB waste shipments. The table includes the manifest number, the shipment destination, the number of PCB containers/items on the manifest, and the net weight in kilograms of PCB containers/items shipped. The weights listed in this table were obtained from the UHWMs. The weights of wastes listed on the manifests were calculated based on the weight of the PCB-contaminated waste contents of the shipping container(s) or the estimated volume of the shipment. The weight on the manifest may differ from the weight recorded in the Waste Tracking System and the PCB and Additional Information attachment to the UHWM. When completing manifest documentation, the Deactivation and Remediation Contractor works with various treatment, storage, and disposal facilities (TSDFs) to facilitate acceptance. On occasion, the manifested weights are adjusted due to factors such as differences in the receiving facility's scale or because the TSDF requires the gross weight to be manifested instead of the net weight; however, the waste database is kept intact to reflect the operating weights while the waste was managed on-site.

Table 1.1 PCB Waste Manifests Summary

UHWM Number	Date Shipped	Shipment Destination	Number of PCB Containers	Weight from UHWM (kg)[a,b]
019695351JJK	1/25/2022	Energy*Solutions,* Clive, UT	3	264
019695353JJK	1/25/2022	Energy*Solutions,* Clive, UT	1	219
019695368JJK	4/7/2022	Waste Control Specialists , Andrews, TX	3	11171
019695369JJK	5/5/2022	Waste Control Specialists , Andrews, TX	2	15657
019695411JJK	3/17/2022	Energy*Solutions,* Clive, UT	2	95
019695416JJK	3/17/2022	Energy*Solutions,* Clive, UT	5	335
019695420JJK	3/17/2022	Energy*Solutions,* Clive, UT	1	170
019695436JJK	3/22/2022	Energy*Solutions,* Clive, UT	1	205
019695446JJK	4/12/2022	Energy*Solutions,* Clive, UT	1	1578
019695450JJK	4/12/2022	Energy*Solutions,* Clive, UT	1	29
019695453JJK	4/12/2022	Energy*Solutions,* Clive, UT	1	35
019695455JJK	4/12/2022	Energy*Solutions,* Clive, UT	1	262
023531984JJK	8/16/2022	Perma-Fix of Florida Gainesville, FL	1	1
023682004JJK	6/10/2022	Energy*Solutions,* Clive, UT	13	2025
023682090JJK	7/26/2022	Energy*Solutions,* Clive, UT	1	808
023682097JJK	8/4/2022	Energy*Solutions,* Clive, UT	1	717
023682104JJK	8/23/2022	Energy*Solutions,* Clive, UT	1	354
023682106JJK	8/29/2022	Energy*Solutions,* Clive, UT	1	14
023682110JJK	8/29/2022	Energy*Solutions,* Clive, UT	1	179
023682111JJK	8/29/2022	Energy*Solutions,* Clive, UT	1	68
023682112JJK	8/29/2022	Energy*Solutions,* Clive, UT	4	308
Total UHWM: 21			**46**	**34,494**

[a] The weights in kg were taken from the UHWMs which may differ from WTS weights shown in Table D.4.

[b] Due to rounding, the weight totals may vary.

2. PCB WASTE CERTIFICATES OF DISPOSAL

Certificates of Disposal (CDs) that have been received by the facility during the CY for PCB wastes disposed of are annual records required by 40 *CFR* § 761.180(a)(1)(ii). Twenty-six CDs were received in 2022 from the following facilities:

- Energy*Solutions* disposal facility in Clive, Utah; and
- Waste Control Specialists, LLC, disposal facility in Andrews, Texas.

Table 2.1 lists the UHWM number, disposal facility, date disposed of, number of PCB containers/items disposed of, and the weight in kilograms of PCB items shipped. The weights listed in the table were obtained from the UHWMs.

The CDs are presented in Appendix B. If the CD received in 2022 was for waste shipped in 2022, the manifests are shown in Table 1.1 and Appendix A.

Table 2.1. PCB Waste Certificates of Disposal Summary

UHWM	Earliest Date Removed from Service	Date Shipped	Disposer	Containers Disposed of	Weight from UHWM (kg)[a]	Date of Disposal	Date CD Received
019695128JJK	9/29/2020	5/25/2021	Energy*Solutions*, Clive, UT	1	201	12/30/2021	1/4/2022
019695128JJK	10/29/2020	5/25/2021	Energy*Solutions*, Clive, UT	1	204	12/30/2021	1/4/2022
019695128JJK	1/25/2021	5/25/2021	Energy*Solutions*, Clive, UT	1	134	12/30/2021	1/4/2022
019695234JJK	3/15/2021	9/28/2021	Energy*Solutions*, Clive, UT	1	203	12/30/2021	1/4/2022
019695261JJK	5/13/2021	10/28/2021	Energy*Solutions*, Clive, UT	1	190	3/29/2022	4/4/2022
019695261JJK	7/1/2021	10/28/2021	Energy*Solutions*, Clive, UT	1	200	3/29/2022	4/4/2022
019695261JJK	7/14/2021	10/28/2021	Energy*Solutions*, Clive, UT	1	193	3/29/2022	4/4/2022
019695261JJK	8/5/2021	10/28/2021	Energy*Solutions*, Clive, UT	1	200	3/29/2022	4/4/2022
019695309JJK	8/30/2021	12/14/2021	Energy*Solutions*, Clive, UT	1	172	3/11/2022	3/23/2022
019695317JJK	6/27/2004	12/14/2021	Waste Control Specialist, Andrews, TX	1	292	12/2/2022	12/7/2022
019695317JJK	6/27/2004	12/14/2021	Waste Control Specialist, Andrews, TX	1	297	12/2/2022	12/7/2022
019695317JJK	6/27/2004	12/14/2021	Waste Control Specialist, Andrews, TX	1	291	12/2/2022	12/7/2022
019695317JJK	6/27/2004	12/14/2021	Waste Control Specialist, Andrews, TX	1	289	12/2/2022	12/7/2022
019695317JJK	6/27/2004	12/14/2021	Waste Control Specialist, Andrews, TX	1	336	12/2/2022	12/7/2022
019695317JJK	11/7/2005	12/14/2021	Waste Control Specialist, Andrews, TX	1	466	12/2/2022	12/7/2022
019695317JJK	11/7/2005	12/14/2021	Waste Control Specialist, Andrews, TX	1	508	12/2/2022	12/7/2022
019695317JJK	11/7/2005	12/14/2021	Waste Control Specialist, Andrews, TX	1	577	12/2/2022	12/7/2022
019695318JJK	11/7/2005	12/14/2021	Waste Control Specialist, Andrews, TX	1	574	12/2/2022	12/7/2022
019695318JJK	11/7/2005	12/14/2021	Waste Control Specialist, Andrews, TX	1	579	12/2/2022	12/7/2022

Table 2.1. PCB Waste Certificates of Disposal Summary

UHWM	Earliest Date Removed from Service	Date Shipped	Disposer	Containers Disposed of	Weight from UHWM (kg)[a]	Date of Disposal	Date CD Received
019695318JJK	11/7/2005	12/14/2021	Waste Control Specialist, Andrews, TX	1	574	12/2/2022	12/7/2022
019695318JJK	11/7/2005	12/14/2021	Waste Control Specialist, Andrews, TX	1	573	12/2/2022	12/7/2022
019695318JJK	11/7/2005	12/14/2021	Waste Control Specialist, Andrews, TX	1	577	12/2/2022	12/7/2022
019695351JJK	8/2/2021	1/25/2022	Energy*Solutions,* Clive, UT	1	34	3/11/2022	3/23/2022
019695351JJK	9/16/2021	1/25/2022	Energy*Solutions,* Clive, UT	1	210	3/11/2022	3/23/2022
019695351JJK	10/19/2021	1/25/2022	Energy*Solutions,* Clive, UT	1	20	3/11/2022	3/23/2022
019695353JJK	8/26/2021	1/25/2022	Energy*Solutions,* Clive, UT	1	219	2/4/2022	2/11/2022
019695368JJK	11/7/2005	4/7/2022	Waste Control Specialist, Andrews, TX	1	9,964	12/2/2022	12/7/2022
019695368JJK	11/7/2005	4/7/2022	Waste Control Specialist, Andrews, TX	1	583	12/2/2022	12/7/2022
019695368JJK	11/7/2005	4/7/2022	Waste Control Specialist, Andrews, TX	1	575	12/2/2022	12/7/2022
019695369JJK	6/27/2004	5/5/2022	Waste Control Specialist, Andrews, TX	1	16,647	12/2/2022	12/7/2022
019695369JJK	6/27/2004	5/5/2022	Waste Control Specialist, Andrews, TX	1	292	12/2/2022	12/7/2022
019695411JJK	9/1/2021	3/17/2022	Energy*Solutions,* Clive, UT	1	59	3/24/2022	3/29/2022
019695411JJK	9/1/2021	3/17/2022	Energy*Solutions,* Clive, UT	1	36	3/24/2022	3/29/2022
019695416JJK	11/2/2021	3/17/2022	Energy*Solutions,* Clive, UT	1	36	12/9/2022	12/27/2022
019695416JJK	12/20/2021	3/17/2022	Energy*Solutions,* Clive, UT	1	45	12/9/2022	12/27/2022
019695416JJK	1/23/2022	3/17/2022	Energy*Solutions,* Clive, UT	1	203	12/9/2022	12/27/2022
019695416JJK	1/23/2022	3/17/2022	Energy*Solutions,* Clive, UT	1	32	12/9/2022	12/27/2022
019695416JJK	1/25/2022	3/17/2022	Energy*Solutions,* Clive, UT	1	19	12/9/2022	12/27/2022

Table 2.1. PCB Waste Certificates of Disposal Summary

UHWM	Earliest Date Removed from Service	Date Shipped	Disposer	Containers Disposed of	Weight from UHWM (kg)[a]	Date of Disposal	Date CD Received
019695420JJK	8/19/2021	3/17/2022	Energy*Solutions*, Clive, UT	1	170	3/29/2022	4/4/2022
019695436JJK	10/25/2021	3/22/2022	Energy*Solutions*, Clive, UT	1	205	12/9/2022	12/27/2022
019695446JJK	6/1/2021	4/12/2022	Energy*Solutions*, Clive, UT	1	1,578	5/12/2022	5/13/2022
019695450JJK	5/20/2021	4/12/2022	Energy*Solutions*, Clive, UT	1	29	4/25/2022	4/29/2022
019695453JJK	1/24/2022	4/12/2022	Energy*Solutions*, Clive, UT	1	35	12/9/2022	12/27/2022
019695455JJK	11/15/2021	4/12/2022	Energy*Solutions*, Clive, UT	1	262	4/26/2022	4/29/2022
023682004JJK	3/2/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	168	12/6/2022	12/15/2022
023682004JJK	3/2/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	155	12/6/2022	12/15/2022
023682004JJK	3/2/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	161	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	161	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	167	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	166	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	164	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	165	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	165	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	166	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	174	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	162	12/6/2022	12/15/2022
023682004JJK	3/3/2022	6/10/2022	Energy*Solutions*, Clive, UT	1	49	12/6/2022	12/15/2022

Table 2.1. PCB Waste Certificates of Disposal Summary

UHWM	Earliest Date Removed from Service	Date Shipped	Disposer	Containers Disposed of	Weight from UHWM (kg)[a]	Date of Disposal	Date CD Received
023682090JJK	6/27/2004	7/26/2022	Energy*Solutions*, Clive, UT	1	808	9/29/2022	9/30/2022
023682097JJK	3/23/2022	8/4/2022	Energy*Solutions*, Clive, UT	1	717	9/20/2022	9/28/2022
023682104JJK	3/24/2022	8/23/2022	Energy*Solutions*, Clive, UT	1	354	9/12/2022	9/29/2022
023682106JJK	5/17/2022	8/29/2022	Energy*Solutions*, Clive, UT	1	14	9/29/2022	9/30/2022
023682110JJK	1/12/2022	8/29/2022	Energy*Solutions*, Clive, UT	1	179	12/9/2022	12/27/2022
023682111JJK	1/31/2022	8/29/2022	Energy*Solutions*, Clive, UT	1	68	9/12/2022	9/28/2022
023682112JJK	10/19/2021	8/29/2022	Energy*Solutions*, Clive, UT	1	200	12/9/2022	12/27/2022
023682112JJK	1/25/2022	8/29/2022	Energy*Solutions*, Clive, UT	1	39	12/9/2022	12/27/2022
023682112JJK	3/10/2022	8/29/2022	Energy*Solutions*, Clive, UT	1	33	12/9/2022	12/27/2022
023682112JJK	6/9/2022	8/29/2022	Energy*Solutions*, Clive, UT	1	36	12/9/2022	12/27/2022
			Totals[b]	**67**	**43,354**		

[a] The weights in kg were taken from the UHWMs, as shown in Table 1.1, which differs from WTS weights shown in Table 6.1.

[b] Due to rounding, the weight totals may vary.

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3. PCB WASTE STORAGE AREA INSPECTION RECORDS

Records of inspections performed in accordance with 40 *CFR* § 761.65(c)(5) are annual records required by 40 *CFR* § 761.180(a)(1)(iii).

Table 3.1 lists the PCB waste storage areas (i.e., a building or an area within a building) established and/or operated for PCB wastes at the Paducah Site during CY 2022. Appendix C contains information from the PCB Waste Inspection database and lists the dates of inspection and a "Yes/No" check to indicate if leaks/spills were found.

As noted in Appendix C, supplemental inspection information is used to demonstrate continued compliance with 40 *CFR* § 761.65(c)(5) during instances when routine PCB storage inspection frequencies exceed 30 days. This supplemental information is comprised of other inspections/walkdowns [e.g., Resource Conservation and Recovery Act (RCRA) storage facility inspections, waste facility inventory inspections, facility operations daily rounds] performed in the facilities where the affected PCB waste containers are stored. Any containers, including PCB containers, found to have deficiencies during these supplemental inspections are documented and reported. When necessary, this supplemental information is compiled and maintained with the site PCB storage area inspection records.

Table 3.1. PCB Waste Storage Areas at the Paducah Site

Building	Waste Area Designator
C-333	G-331-18[a]
C-333	G-333-37[a,b]
C-333	PCB/180-333-02[c]
C-337	G-337-02[a,d]
C-337	G-337-03[a,e]
C-337	G-337-PCB-02[a]
C-337	S-337-12[f,g]
C-337	S-337-13[f,h]
C-337	S-337-14[f,i]
C-720	G-720-36[a,j]
C-733	C-733
C-746-Q	C-746-Q
C-752-A	C-752-A
C-753-A	C-753-A
C-757	G-757-03[a]

[a] Waste Area Designators that begin with a "G" indicate a generator staging area, which is a temporary storage area for non-RCRA, PCB, and/or low-level (radioactive) waste.
[b] G-337-37 was closed on August 9, 2022.
[c] PCB/180DAA-333-02 was opened on May 9, 2022, and was closed on August 10, 2022.
[d] G-337-02 was closed on August 10, 2022.
[e] G-337-03 was closed on August 9, 2022.
[f] Waste Area Designators that begin with a "S" indicate a satellite accumulation area, which is a temporary storage area for RCRA, but may be mixed with PCB, and/or low-level (radioactive) waste.
[g] S-337-12 was established on January 4, 2022.
[h] S-337-13 was established on November 7, 2022.
[i] S-337-14 was established on November 8, 2022.
[j] G-720-36 was established on October 27, 2022.

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4. PCB SPILL CLEANUP RECORDS

Records of cleanup and disposal of any spilled or leaked materials from PCB items in storage, in accordance with 40 *CFR* § 761.65(c)(5), are annual records required by 40 *CFR* § 761.180(a)(1)(iii). Because no spills occurred in PCB storage areas during CY 2022, there are no records.

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5. PCB ELECTRICAL EQUIPMENT IN SERVICE

No PCB [≥ 500 parts per million (ppm)] transformers or PCB (≥ 500 ppm) large capacitors were in service at the Paducah Site as of December 31, 2022, which is summarized in Table 5.1. In addition, no PCB transformers or PCB large capacitors were removed from service in CY 2022. Sixty-seven PCB transformers were removed from service, drained, and flushed during 2015. They were stored in place in C-337 during CY 2022. Residual flushate was removed over time as it drained through and collected in the units.

There are no CY 2022 PCB transformer maintenance records because there was no maintenance performed on these transformers, and the transformers currently are not in service.

Table 5.1. PCB Electrical Equipment in Service as of December 31, 2022

Type	Number in Service	Volume (gal)	PCB (kg)
PCB transformers*	0	0	0
PCB large high-voltage capacitors	0	0	0

*There were 67 PCB transformers that were removed from service, drained, flushed, and stored in place in 2015. Due to their size and the structural interferences in the process buildings, options for disposal of these items continue to be evaluated.

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6. PCB WASTE ACTIVITY

PCB waste activities performed by the facility during CY 2022 are annual records required by 40 *CFR* § 761.180 (a)(2)(iii). The PCB Waste Activity Summary for CY 2022 is shown in Table 6.1. Detail tables supporting the summary table are located in Appendix D. Throughout the tables, the PCB Date, often referred to as PCB DTS (date to storage), reflects the date that the PCB waste was first added to a container and is also the origin date of the container.

The PCB Waste Inventory for December 31, 2021, has been adjusted from the "PCB Waste Inventory as of December 31, 2021," reported as Table D.5 of the *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2021—December 31, 2021*, FRNP-RPT-0251. The net changes to the January 1, 2022, beginning inventory include adjustments because of in-process collection containers at the time of the 2021 inventory, information received after the 2021 report submittal, and/or weight corrections. The detailed listing of the December 31, 2021, corrections and adjustments is provided in Appendix D, Table D.1.

The detailed listing of PCB waste generated during CY 2022 is provided in Appendix D, Table D.2.

The detailed listing of the adjustments to the CY 2022 PCB inventory is provided in Appendix D, Table D.3.

The detailed listing of the PCB waste shipped in CY 2022 is provided in Appendix D, Table D.4.

The detailed listing of the PCB waste inventory as of December 31, 2022, is provided in Appendix D, Table D.5.

There was no PCB waste received from off-site facilities in CY 2022.

Table 6.1. PCB Waste Activity Summary for CY 2022

PCB Waste Items In Inventory	12/31/2021 Inventory		Corrections and Adjustments to Beginning Inventory[a]		1/1/2022 Inventory		Generated		Corrections to 2022 Inventory[b]		Shipped for Disposal		12/31/2022 Inventory	
	pc	*kg*	*pc*	*kg*	*pc*	*kg*	*pc*	*kg*	*pc*	*kg*	*pc*	*kg*	*pc*	*kg*
ARTICLES	**5**	**26,830**	**0**	**0**	**5**	**26,830**	**0**	**0**	**0**	**1,297**	**-5**	**-28,127**	**0**	**0**
PCB Transformer Components (drained)	3	1,516	0	0	3	1,516	0	0	0	0	-3	-1,516	0	0
PCB Transformers (drained)	2	25,314	0	0	2	25,314	0	0	0	1,297	-2	-26,611	0	0
ARTICLE CONTAINERS[c]	**5**	**1,271**	**0**	**724**	**5**	**1,995**	**6**	**770**	**-1**	**-2**	**-6**	**-2,076**	**4**	**687**
Large Capacitors	2	145	0	0	2	145	1	5	0	0	-2	-145	1	5
Light Ballasts	2	676	0	6	2	682	4	194	-1	-2	-3	-763	2	111
Misc. Equip. (motors, pumps, etc.)	1	45	0	718	1	1,168	1	571	0	0	-1	-1,168	1	571
CONTAINERS	**10**	**6,851**	**0**	**479**	**10**	**7,330**	**36**	**9,769**	**-1**	**-9**	**-35**	**-15,466**	**10**	**1,624**
Liquids [d]	3	676	0	15	3	691	18	2,851	0	0	-17	-3,252	4	290
Solids	7	6,175	0	464	7	6,639	18	6,918	-1	-9	-18	-12,214	6	1,334
BULK PCB REMEDIATION WASTE SOLIDS < 49 MG/Kg[e]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL[f]	**20**	**34,952**	**0**	**1,203**	**20**	**36,155**	**42**	**10,539**	**-2**	**1,286**	**-46**	**-45,669**	**14**	**2,311**

pc = piece count; kg = kilogram (rounded to the nearest whole number for the summaries)

[a] The Corrections and Adjustments to Beginning Inventory column includes adjustments because of in-process collection containers at time of 2021 inventory, information received after the 2021 report submittal, characterization waste category adjustments, and/or weight corrections. Weights reported in this summary include the weight of the container (drum/box), except for tanks/tankers.

[b] The Adjustments to 2022 Inventory column includes adjustments due to repackaging of wastes or because of in-process collection containers during time of 2022 inventory. Weights reported in this summary include the weight of the container (drum/box), except for tanks/tankers.

[c] Article Containers are drums or boxes of PCB transformers, PCB large capacitors, electrical equipment, PCB light ballasts, or PCB small capacitors.

[d] Portable (mobile) tanks and totes are counted as Containers.

[e] PCB Remediation Waste Solids disposed at the onsite C-746-U Landfill.

[f] Due to rounding, the weight totals may vary.

7. PCB WASTE SHIPMENT RECEIPT LOG

A PCB waste shipment receipt log is required by 40 *CFR* § 761.180(a)(2)(viii). The log is included as Table 7.1. The table is an excerpt from a data file, which includes a record of phone calls or other agreed method to confirm receipt of PCB waste shipments. Information in the log that is not required for this report has been omitted from Table 7.1.

Table 7.1 CY 2022 PCB Waste Shipment Receipt Log

Shipment ID	Actual Ship Date	Shipment Destination	UHWM #	Comments / Notes	Date Manifest Received	Comments for Manifest Inquiries and Requests	Waste Cat	Confirmation email received from TSDF
7340-08-0018	1/25/2022	Energy*Solutions*, Clive, UT	019695353JJK	(1) ST-90 OF TSCA/LLW	1/27/2022		TSCA Mixed (TM)	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 1/27/2022
9750-09-0024	1/25/2022	Energy*Solutions*, Clive, UT	019695351JJK	(1) DRUM OF TSCA/MLLW AND (2) DRUMS OF TSCA/LLW	1/27/2022		RCRA/TSCA Mixed (RTM)	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 1/27/2022
7340-08-0019	3/17/2022	Energy*Solutions*, Clive, UT	019695420JJK	(1) ST-90 OF TSCA/ ACM WASTE	3/22/2022		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 3/22/2022
9750-04-0011	3/17/2022	Energy*Solutions*, Clive, UT	019695436JJK	(1) DRUM OF TSCA/LLW	3/30/2022	THIS DRUM WAS INCORRECTLY PROFILED AS 9750-10-0011, UHWM# 019695410JJK, AND RE-PROFILED AS 9750-04-0011 ON 3/22/2022	TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 3/22/2022
9750-09-0025	3/17/2022	Energy*Solutions*, Clive, UT	019695416JJK	(5) TSCA/LLW	3/22/2022		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 3/22/2022
9750-90-0001	3/17/2022	Energy*Solutions*, Clive, UT	019695411JJK	(2) DRUMS OF TSCA WASTE	3/22/2022	The profile for these two containers changed from 9750-09 (VTD) to 9750-90 (PCB MACRO). Treatment cost changed from $20,898.93 to $558.85. PR-0014981	TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 3/22/2022
WP-9519-03	4/7/2022	Waste Control Specialists, Andrews, TX	019695368JJK	(3) IP BAGS OF DRAINED PCB TRANSFORMERS	4/20/2022		TM	RECEIVED EMAIL CONFIRMATION FROM DAVID HEILMAN ON 4/12/2022
7340-08-0020	4/12/2022	Energy*Solutions*, Clive, UT	019695446JJK	(1) INTERMODAL OF TSCA/LLW (ISEU000079)	4/15/2022		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 4/15/2022
7340-08-0021	4/12/2022	Energy*Solutions*, Clive, UT	019695455JJK	(1) ST-90 OF TSCA WASTE	4/15/2022		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 4/15/2022
9750-09-0026	4/12/2022	Energy*Solutions*, Clive, UT	019695453JJK	(1) DRUM OF TSCA/MLLW	4/15/2022		RTM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 4/15/2022
9750-90-0002	4/12/2022	Energy*Solutions*, Clive, UT	019695450JJK	(1) DRUM OF TSCA/LLW	4/15/2022		TM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 4/15/2022
WP-9519-04	5/5/2022	Waste Control Specialists, Andrews, TX	019695369JJK	(2) IP-1 BAGS OF TSCA WASTE (PCB TRANSFORMERS)	5/10/2022		TM	RECEIVED CONFIRMATION EMAIL FROM MARLOW CARTWRIGHT ON 5/10/2022
9750-09-0028	6/10/2022	Energy*Solutions*, Clive, UT	023682004JJK	(13) DRUMS OF RCRA/TSCA WASTE	6/14/2022		RTM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 6/14/2022
9750-04-0012	7/26/2022	Energy*Solutions*, Clive, UT	023682090JJK	(1) ST-90 OF TSCA WASTE	7/29/2022		TM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 7/29/2022
7340-08-0023	8/4/2022	Energy*Solutions*, Clive, UT	023682097JJK	(1) INTERMODAL OF TSCA/ACM//LLW (ICEU000082)	8/8/2022		TM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 8/8/2022
PFF4-22-255	8/16/2022	Perma-Fix of Florida Gainesville, FL	023531984JJK	(1) DRUM OF RCRA/TSCA WASTE	8/24/2022		RTM	RECEIVED CONFIRMATION EMAIL FROM PAUL JONES ON 8/17/2022
7340-08-0024	8/23/2022	Energy*Solutions*, Clive, UT	023682104JJK	(1) ST-90 OF LLW/TSCA	8/26/2022		TM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 8/26/2022
9750-04-0013	8/29/2022	Energy*Solutions*, Clive, UT	023682110JJK	(1) DRUM OF LLW/TSCA	9/6/2022		TM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 9/6/2022
9750-09-0030	8/29/2022	Energy*Solutions*, Clive, UT	023682112JJK	(3) DRUMS OF TSCA/LLW, (1) DRUM OF TSCA WASTE	9/6/2022		RTM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 9/6/2022
7340-08-0025	8/29/2022	Energy*Solutions*, Clive, UT	023682111JJK	(1) DRUM OF TSCA/LLW	9/6/2022		TM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 9/6/2022
9750-03-0007	8/29/2022	Energy*Solutions*, Clive, UT	023682106JJK	(1) DRUM OF TSCA/MLLW	9/6/2022		RTM	RECEIVED CONFIRMATION EMAIL FROM SCOTT GLEASON ON 9/6/2022

APPENDIX A

PCB WASTE MANIFESTS

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Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
KY 8890008982	2	1-270-441-6333	019695351 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone: 270-441-5025

Generator's Site Address (if different than mailing address)
FRNP on behalf of the FRNP
Paducah Gaseous Diffusion Plant
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: RSB LOGISTICS Inc. — U.S. EPA ID Number: WAR000012005

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: EnergySolutions Clive Disposal Site- Waste Treatment Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155 — U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1 NA3082, Hazardous waste, liquid, n.o.s., (Benzene, Chlorobenzene), 9, PG III, (D018, PCB)	1	DM	210	K	D018	D021	D027
						D032		
RQ	2 UN2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Np-237, Pu-238, Pu-239, Tc-99, Th-230, Solid/Oxide, 11 MBq, Fissile Excepted	2	DM	54	K			
	3.							
	4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.							

14. Special Handling Instructions and Additional Information
Truck: 55620 Trailer 253194 TID: 0349849 Accumulation Start Date: ~~9/16/21~~ RP 1/25/22 PCB Start Date: ~~8/01/21~~ RP 9/02/21 4/13/23
ERG # 162, 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator
See Attachment for Additional Info PM02477 Shipment ID: 9750-09-0024

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Regina Pea on behalf of FRNP — Signature: Regina Pea — Month 01 Day 25 Year 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Wes Jennings — Signature: Wes J — Month 1 Day 25 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

RECEIVED FEB 15 2022 BY: AA-Mallabs

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Justin Lee — Signature — Month 1 Day 27 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Additional Information Attachment, Page 2 of 2

Manifest Number: 019695351JJK

Shipment ID Number: 9750-09-0024

Shipment Date: 1/25/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity (MBq)
9b.2	122253	122253-04	PAD21C47146	Vent Duct Trough Cleanup Debris	N/A	08/02/21	7	130	59	74	34	7
9b.2	122253	122253-05	PAD21C47150	Vent Duct Trough Cleanup Debris	N/A	10/19/21	7.2	101	46	45	20	4
9b.1	121255	121255-04	PAD20C44709	LUBE OIL / PCB RINSEATE (NOTED AS BEING EMPTY AT C-337 AS OF 3/29/2021 - ENTERED TO TRACK DRUM IN FIELD)	09/16/21	8/24/21 ~~4/16/21~~ ~~N/A~~ RP 4/12/23 RP 4/13/23	6.7	518	235	462	210	N/A
		Totals	**3**				**20.9**	**749**	**340**	**581**	**264**	**11**

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
KY 8890008982	2	1-270-441-6333	019695353 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address)
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name
RSB LOGISTICS Inc.
U.S. EPA ID Number
WAR000012005

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site- Bulk Waste Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number
UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 3077, Environmentally hazardous substances, solid, n.o.s., (PCB, Beryllium), 9, PG III	1	CM	219	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Truck:55620 Van:253194 TID: 0349849
ERG #171 In the event of an RQ Release, call 1-800-424-8802
Dedicated Use Shipment
BC 04-11-23 08-30-21
PCB Start Date 08/28/21
If undeliverable, return to generator
Shipment ID: 7340-08-0018

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Blake Cleary on Behalf of FRNP
Signature: Blake Cleary
Month: 01 Day: 25 Year: 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Wes Jennings
Signature: Wes Jennings
Month: 1 Day: 25 Year: 22

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

Manifest Number: 019695353JJK

Shipment ID Number: 7340-08-0018

Shipment Date: 1/25/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)
9b.1	122235	122235-04	PAD21C47575	EPOXY PAINT CHIPS	~~08/20/21~~ 08-30-21	80	1519	689	483	219
		Totals	**1**			**80**	**1519**	**689**	**483**	**219**

BC 04-1-23

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
KY 8890008982	2	1-270-441-6333	019695368 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone: 270-441-5025

Generator's Site Address (if different than mailing address)
FRNP on behalf of the FRNP
Paducah Gaseous Diffusion Plant
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Interstate Ventures, Inc. — U.S. EPA ID Number: TNR000034678

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
WCS, Federal Waste TSD
9998 West State Highway 176, Andrews, TX 79714
Facility's Phone: 1-432-535-8500 — U.S. EPA ID Number: TXD988088484

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 3077, Environmentally hazardous substance, solid, n.o.s., (PCB), 9, PG III, WP-9519	3	BA	16788	K	OUTS3971
	2.					
	3.					
	4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.					

14. Special Handling Instructions and Additional Information
Truck: BBG1 Trailer 943 TID: 0349482 MARP 4/7/22 Accumulation Start Date: N/A PCB Start Date: 06/27/04
ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator
See PCB Attachment for Additional Info Shipment ID: WP-9519-03

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Regina Pea — Signature: Regina Pea — Month 04 Day 07 Year 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Raymond Cornie — Signature — Month 04 Day 07 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

RECEIVED APR 20 2022 BY:

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: D S HEILMAN — Signature: DS — Month 4 Day 12 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695368JJK

Shipment ID Number: WP-9519-03

Shipment Date: 4/7/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	106744	106744-01	PAD22C50271	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGE AT C-337 U2C3 "B" LOCATION.	06/27/04	1971	~~34500~~ 21966	m 42622 ~~15640~~ 9963.61	~~34457~~ 21966	~~15629~~ 9963.61
9b.1	106744	106744-04	PAD21C47844	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGE AT C-337 U2C3 "B" LOCATION.	06/27/04	50	1340	608	1286	583
9b.1	106744	106744-05	PAD21C48255	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGE AT C-337 U2C3 "B" LOCATION.	06/27/04	50	1322	600	1268	575
		Totals	**3**			**2071**	**37162**	**16856**	**37011**	**16788**

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982	2	1-270-441-6333	019695369 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone: 270-441-5025

Generator's Site Address (if different than mailing address)
FRNP on behalf of the FRNP
Paducah Gaseous Diffusion Plant
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Interstate Ventures, Inc. — U.S. EPA ID Number: TNR000034678

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
WCS, Federal Waste TSD
9998 West State Highway 176, Andrews, TX 79714
Facility's Phone: 1-432-535-8500
U.S. EPA ID Number: TXD988088464

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 3077, Environmentally hazardous substance, solid, n.o.s., (PCB), 9, PG III, WP-9519	2	BA	16939	K	OUTS3971
RP 5/4/22	2.					
	3.					
	4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.					

14. Special Handling Instructions and Additional Information
Truck: 34926 Trailer 943 TID: 0349449 N/A RP 5/5/22 Accumulation Start Date: N/A PCB Start Date: 06/27/04
ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator
See PCB Attachment for Additional Info Shipment ID: WP-9519-04

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Regina Pea on behalf of FRNP — Signature: Regina Pea — Month 05 Day 05 Year 22

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Matthew Sanders — Signature: Matthew — Month 5 Day 5 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

RECEIVED MAY 10 2022 BY: [illegible]

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: M. Cartwright — Signature: M. Cartwright — Month 5 Day 10 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695369JJK

Shipment ID Number: WP-9519-04

Shipment Date: 5/5/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	107839	107839-01	TMP107839-01	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION	06/27/04	463	36700	16647	36700	16647
9b.1	107839	107839-02	PAD21C48262	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION	06/27/04	90	678	308	643	292
		Totals	**2**			**553**	**37378**	**16954**	**37343**	**16938**

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
KY 8890008982	2	1-270-441-6333	019695411 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone: 270-441-5025

Generator's Site Address (if different than mailing address)
FRNP on behalf of the FRNP
Paducah Gaseous Diffusion Plant
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Interstate Ventures, Inc. — U.S. EPA ID Number: TNR000034678

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: EnergySolutions Clive Disposal Site- Waste Treatment Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155 — U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN3077, Environmentally hazardous substance, solid, n.o.s., (PCB), 9, PGIII	2	DM	95	K	
	2.					
	3.					

Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.

14. Special Handling Instructions and Additional Information
Truck: SP1 Trailer 53007 TID: 0349798 Accumulation Start Date: N/A PCB Start Date: 09/01/21
ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator
See Attachment for Additional Info Shipment ID: 9750-90-0001

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Regina Pea — Signature: Regina Pea — Month 03 Day 17 Year 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Donald Doty — Signature — Month 3 Day 17 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

RECEIVED
MAR 22 2022
BY:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Albert Enns — Signature — Month 3 Day 21 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695411JJK

Shipment ID Number: 9750-90-0001

Shipment Date: 3/17/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	122430	122430-01	PAD21C47861	CAPACITORS CONTAINING PCB OIL (AS FREE LIQUIDS)	09/01/21	1.34	186	84	130	59
9b.1	122430	122430-02	PAD21C47862	CAPACITORS CONTAINING PCB OIL (AS FREE LIQUIDS)	09/01/21	1.34	135	61	79	36
		Totals	**2**			**2.7**	**321**	**146**	**209**	**95**

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982	2	1-270-441-6333	019695416 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address)
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Interstate Ventures, Inc. — U.S. EPA ID Number: TNR000023390

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Waste Treatment Facility
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 2912, Waste Radioactive material, low specific activity (LSA-I), 7, (PCB), Np-237, Pu-238, Pu-239, Tc-99, Th-230, Solid/Oxide, 80 MBq, Fissile Excepted	5	DM	335	K	
	2.					
	3.					

Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.

14. Special Handling Instructions and Additional Information
Truck: SP1 Van: 53007 TID: 0349798 — PCB Start Date: 11/02/21
ERG # 162 In the event of an RQ Release, call 1-800-424-8802 — If undeliverable, return to generator
Exclusive Use Shipment, See PCB Attachment for Additional Info — Shipment ID: 9750-09-0025

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] on behalf of FRNP — Signature: [signature] — Month 3 Day 17 Year 22

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dora D Doty — Signature: [signature] — Month 3 Day 17 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

RECEIVED
MAR 22 2022
BY: [signature]

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Albert Enos — Signature: [signature] — Month 3 Day 21 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695416 JJK

Shipment ID Number: 9750-09-0025

Shipment Date: 3/17/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	122253	122253-06	PAD21C47550	Vent Duct Trough Cleanup Debris	11/02/21	7.2	136	62	80	36	7
9b.1	122253	122253-07	PAD21C48302	Vent Duct Trough Cleanup Debris	12/20/21	7.3	156	71	100	45	9
9b.1	122623	122623-01	PAD22C50118	Vent Duct Trough Cleanup Debris	01/23/22	7.3	504	229	448	203	40
9b.1	122623	122623-02	PAD22C50119	Vent Duct Trough Cleanup Debris	01/23/22	7.2	127	58	70	32	6
9b.1	122623	122623-04	PAD22C50121	Vent Duct Trough Cleanup Debris	01/25/22	7.2	97	44	41	19	4
		Totals	5			**36.2**	**1020**	**463**	**739**	**335**	**66**

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982	2	1-270-441-6333	019695420 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address)
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Interstate Ventures, Inc. — U.S. EPA ID Number: TNR000034678

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Bulk Waste Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 3077, Environmentally hazardous substances, solid, n.o.s., (PCB, Asbestos), 9, PG III	1	CM	170	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Truck: SP1 Van: 53007 TID: 0349798
ERG # 171 In the event of an RQ Release, call 1-800-424-8802
Exclusive Use Shipment, See PCB Attachment for Additional Info
PCB Start Date: 08/19/21
If undeliverable, return to generator
Shipment ID: 7340-08-0019

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Blake Cleary on Behalf of FRNP — Signature: Blake Cleary — Month: 03 Day: 17 Year: 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Donald D. Doty — Signature: — Month: Day: Year:

Transporter 2 Printed/Typed Name — Signature — Month: 3 Day: 17 Year: 22

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

RECEIVED
MAR 22 2022
BY:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Albert Ems — Signature: Albert Ems — Month: 3 Day: 21 Year: 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695420JJK

Shipment ID Number: 7340-08-0019

Shipment Date: 3/17/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)
9b.1	122494	122494-01	PAD21C47951	FLUORESCENT LIGHT FIXTURES, LIGHT BALLASTS AND WIRING, CONTAINER PCB (50-499 PPM) AND ASBESTOS CONTAINING MATERIAL (ACM)	08/19/21	23	1410	640	374	170
		Totals	**1**			**23**	**1410**	**640**	**374**	**170**

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982	2	1-270-441-6333	019695436 JJK

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone: 270-441-5025

Generator's Site Address (if different than mailing address)
FRNP on behalf of the FRNP
Paducah Gaseous Diffusion Plant
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Interstate Ventures, Inc. — U.S. EPA ID Number: TNR000034678

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site- Waste Treatment Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Am-241, Pu-238, Pu-239, To-99, Th-230, Liquid/Oxide, 0.488 MBq, Fissile Excepted	1	DM	206	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Truck: SP1 Trailer 53007 TID: 0349798 Accumulation Start Date: N/A PCB Start Date: 10/25/21
ERG # 162, 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator
Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9750-04-0011

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LaChelle Telfair on behalf of FRNP — Signature — Month 3 Day 22 Year 22

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: See Drivers Signature on UHWM 9750-04-0011 dated 3-17-22 — Signature — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

RECEIVED
MAR 30 2022
BY:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Albert Enos — Signature: Albert Enos — Month 3 Day 28 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Additional Information Attachment, Page 2 of 2

Manifest Number: 019695436JJK

Shipment ID Number: 9750-04-0011

Shipment Date: 3/22/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date To Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122252	122252-08	PAD21C47549	Vent Duct Oil and Water	N/A	10/25/21	6.35	509	231	453	205	0.468
		Totals	1				6.4	509	231	453	205	0.468

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 2	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982		1-270-441-6333	019695446 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address)
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name
Specialty Transport Inc.
U.S. EPA ID Number
TNR000011247

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Bulk Waste Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number
UTD982598898

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB, Asbestos), Np-237, Tc-99, U-234, Solid/Oxide, 118 MBq, Fissile Excepted	1	CM	1578	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Truck: 390 Trailer: 4864 Exclusive Use Shipment TID: N/A Shipment ID: 7340-08-8020 06/02/21
ERG # 162 In the event of an RQ Release, call 1-800-424-8802 PCB Start Date: ~~06/01/21~~
If undeliverable, return to generator
~~LT 4-11-22 Exclusive Use Shipment. See PCB Attachment for Additional Info Shipment ID: 7340-08-8020~~ BC 04-10-23
4-4-22

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Blake Cleary on behalf of FRNP
Signature: Blake Cleary
Month: 04 Day: 12 Year: 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Doug Runkle
Signature: Doug Runkle
Month: 4 Day: 12 Year: 22
Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month: Day: Year:

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Manifest Number: 019695446JJK

Shipment ID Number: 7340-08-0020

Shipment Date: 4/12/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)
9b.1	122431	122431-02	PAD21C47420	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED INTO THIS CONTAINER (122431-02)	~~06/01/21~~ 06/02/21	600	10980	4980	3480	1578
		Totals	1			600	10980	4980	3480	1578

BC 04-10-22

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982	2	1-270-441-6333	019695450 JJK

GENERATOR

5. Generator's Name and Mailing Address: Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy, 5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address): FRNP on behalf of the U.S. Department of Energy, Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Specialty Transport Inc. — U.S. EPA ID Number: TNR000011247

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: EnergySolutions Clive Disposal Site-Waste Treatment Facility — U.S. EPA ID Number: UTD982598898
Facility's Phone: 1-435-884-0155

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes
RQ	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Np-237, Pu-238, Pu-239, To-99, Th-230, Solid/Oxide, 7 MBq, Fissile Excepted	1	DM	29	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Truck:388 Van: 7576 TID: 0349489
ERG # 162 In the event of an RQ Release, call 1-800-424-8802
Exclusive Use Shipment, See PCB Attachment for Additional Info
PCB Start Date: 05/20/21
If undeliverable, return to generator
Shipment ID: 8750-SO-0002

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Blalle Cleary on behalf OF FRNP — Signature: Blalle Cleary — Month: 04 Day: 12 Year: 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RON RUNKLE — Signature: Ron Runkle — Month: 4 Day: 12 Year: 22

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

RECEIVED APR 15 2022 BY: AA

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Albert Evans — Signature: Albert Evans — Month: 4 Day: 15 Year: 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695450JJK

Shipment ID Number: 9750-90-0002

Shipment Date: 4/12/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)
9b.1	122396	122396-01	PAD21C47111	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS/ETC	05/20/21	3.7	93	42	63	29
		Totals	1			**3.7**	**93**	42	63	29

Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: KY 8890008982
2. Page 2 of
3. Emergency Response Phone: 270-441-8333
4. Manifest Tracking Number: 019695453 JJK

5. Generator's Name and Mailing Address: Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy, 5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address): FRNP on behalf of the U.S. Department of Energy, Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Specialty Transport Inc.
U.S. EPA ID Number: TNR000011247

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: EnergySolutions Clive Disposal Site-Waste Treatment Facility
U.S. EPA ID Number: UTD982598898
Facility's Phone: 1-435-884-0155

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Np-237, Pu-238, Pu-239, TC-99, Th-230, Solid/Oxide, 7 MBq, Fissile Excepted	1	DM	35	K			
RQ	2. NA 3077, Hazardous Waste, Solid, n.o.s., (Cadmium, Lead), 9, PG III, (D006, D008)	2	DM	82	K	D006 D018	D008	D010
RQ	3. NA 3082, Hazardous Waste, Liquid, n.o.s., (Cadmium, Lead), 9, PG III, (D006, D008)	3	DM	450	K	D006 D018	D008	D010
RQ	4. NA 3082, Hazardous Waste, Liquid, n.o.s., (Cadmium, Lead), 9, PG III, (D006, D008)	1	DM	109	K	D006	D008	D018

14. Special Handling Instructions and Additional Information
Truck:388 Van:7576 TID: 0349489 PCB Date to Storage: 01/24/22 Accumulation Starte Date: 03/09/22
ERG # 162, 171 In the event of an RQ Release, call 1-800-424-8 If undeliverable, return to generator
Exclusive Use Shipment Shipment ID: 9750-09-0026

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Blake Cleary on behalf of FRNP
Signature: Blake Cleary
Month: 04 Day: 12 Year: 22

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ron Runkle
Signature: Ron Runkle
Month: 4 Day: 12 Year: 22
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

RECEIVED APR 15 2022 BY:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4. H132

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Albert Enns
Signature: Albert Enns
Month: 4 Day: 15 Year: 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Additional Information Attachment, Page 2 of 2

Manifest Number: 019695453JJK

Shipment ID Number: 9750-09-0026

Shipment Date: 4/12/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	PCB/Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	122623	122623-03	PAD22C50120	Vent Duct Trough Cleanup Debris	N/A	01/24/22	7.2	133	60	77	35	7
9b.2	122675	122675-01	PAD22C50563	OIL ABSORBENTS	03/15/22	N/A	7	121	55	65	29	NA
9b.2	122675	122675-02	PAD22C50565	OIL ABSORBENTS	03/24/22	N/A	7	129	59	73	33	NA
9b.3	122674	122674-01	PAD22C50561	COMPRESSOR OIL	03/09/22	N/A	7.08	445	202	389	176	NA
9b.3	122674	122674-02	PAD22C50562	COMPRESSOR OIL	03/09/22	N/A	4.68	368	167	312	142	NA
9b.3	122674	122674-03	PAD22C50564	COMPRESSOR OIL	03/24/22	N/A	6.02	348	158	292	132	NA
9b.4	121695	121695-02	PAD19C43595	USED LUBE OIL	03/16/22	N/A	7.4	291	132	241	109	NA
		Totals	**7**				**46.38**	**1835**	**832**	**1449**	**657**	**7**

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982	2	1-270-441-6333	019695455 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address)
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Specialty Transport Inc. — U.S. EPA ID Number: TNR000011247

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Bulk Waste Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 3077, Environmentally hazardous substances, solid, n.o.s., (PCB), 9, PG III, (PCB)	1	CM	282	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Truck: 388 Van: 7576 TID: 0349489 — PCB Start Date: 11/15/21
ERG # 171 In the event of an RQ Release, call 1-800-424-8802 — If undeliverable, return to generator
Exclusive Use Shipment, See PCB Attachment for Additional Info — Shipment ID: 7340-08-0021

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Candace Gillette on behalf of FRNP — Signature: Candace Gillette — Month 4 Day 12 Year 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RON RUNKLE — Signature: Ron Runkle — Month 4 Day 12 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

RECEIVED APR 15 2022 BY: AK

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Albert Evans — Signature: Albert Evans — Month 4 Day 15 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695455JJK

Shipment ID Number: 7340-08-0021

Shipment Date: 4/12/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)
9b.1	122193	122193-08	PAD21C47574	Epoxy paint chips, Vegetation, and ppe	11/15/21	82	1614	732	578	262
		Totals	**1**			**82**	**1614**	732	578	**262**

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
KY8890008982	2	270-441-6333	023531984 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership
5511 Hobbs Rd
Kevil KY 42053
Generator's Phone: 270 441-5310

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST TRANSPORT — U.S. EPA ID Number: COR000005389

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Perma-Fix of Florida, Inc.
1940 N.W. 67th Place
Gainesville FL 32653
Facility's Phone: 352 373-6066 — U.S. EPA ID Number: FLD980711071

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1588 Waste Cyanides, inorganic, solid, n.o.s., (potassium cyanide mixture), 6.1, PG III, Container # 130053-03/Profile # RS22-08-008, ERG # 157	001	DM	0.265	K P	D003
X	2. UN2809 Waste Mercury, 8, (6.1), PG III	001	DM	0.86	K P	D009
X RQ	3. NA3077 Hazardous waste solid, n.o.s., 9, PG III, (D004)	001	DM	0.08	K P	D004
X	4. NA3077 Hazardous waste solid, n.o.s., 9, PG III	001	DM	0.22	K P	D008 D011 D018

14. Special Handling Instructions and Additional Information
1) 130053-03/ Profile# RS22-08-008, ERG# 157 2) 130055-01/ Profile# RS22-08-004, ERG# 172 3) 130053-04/ Profile# RS22-07-049, ERG# 171 4) 130053-02/ Profile# RS22-07-049, ERG# 171 "See NRC Manifest FRNP-03 for Isotopes & Activity"
"Exclusive Use" 1 Wool 0.7 2 Wool 0.5 3 Wool 0.5 4 Wool 0.7 PFFR-22-255

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul Jones — Signature — Month: 08 Day: 16 Year: 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CAMERON GABBS — Signature — Month: 08 Day: 16 Year: 22

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

RECEIVED AUG 24 2022 BY:

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone: 1174

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H070	H110	H110	H110

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Tom McLaett — Signature — Month: 8 Day: 18 Year: 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	KY8890008982	2 of 2	023531984 JJK

24. Generator's Name: Four Rivers Nuclear Partnership

25. Transporter _____ Company Name: CAST TRANSPORT — U.S. EPA ID Number: COR000005389

26. Transporter _____ Company Name: — U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
RQ X*	5. NA3082 Hazardous waste liquid, n.o.s., 9, PG III (D011), container #130055-02 / Profile# RS22-08-065 ERG# 171	001	DM	0.26	K	D011
X	6. NA3077 Hazardous waste solid, n.o.s., 9, PG III "contains PCBs", 0.05 8/4/22.	001	DM	0.5	K	D009
X	7. UN1690 WASTE Sodium Fluoride, solid, 6.1, PG III	001	DM	19.06	K	NONE
X	8. UN2910 WASTE Radioactive material, excepted package-limited quantity of material, 7	001	DM	12.42	K	NONE
X	9. UN2910 WASTE Radioactive material, excepted package-limited quantity of material, 7	001	DM	17.12	K	NONE
	10. Non-DOT Regulated Material	005	DM	17.72	K	NONE
	11. Non-DOT Regulated Material	001	DM	2.3	K	NONE
	12. Non-DOT Regulated Material	001	DM	0.06	K	NONE

32. Special Handling Instructions and Additional Information

~~5) 130060-01 / Profile# RS22-07-049 ERG# 171~~ 6) 130060-01 / Profile# RS22-07-049 ERG# 171 7) 130052-06 / Profile# RS22-08-005 ERG# 154 8) 130052-05 / Profile# RS22-07-048 ERG# 161 9) 130052-07 / Profile# RS22-07-048 ERG# 161 10) 130052-01, 02, 03, 04, 130059-01 / Profile# RS22-07-048 11) 130058-01 / Profile# RS22-08-004 12) 130058-02 / Profile# RS22-07-049

W001 0.7 W001 0.5

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name: CAMERON GRIGGS — Signature: — Month: 08 Day: 16 Year: 22

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name: — Signature: — Month: Day: Year:

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H110	H110			

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM

Generator Name: Four Rivers Nuclear Partnership UHW Manifest No.: 023531984 JJK

Profile No.: RS22-07-049 Container No: 130053-01, 130053-02

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater [X] Wastewater [ ]

2. Identify ALL USEPA hazardous waste codes and State codes (if applicable) that apply to this waste shipment, as defined by 40 CFR 261 and/or applicable state regulations. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the F039-UHC Constituent sheet. If F039, multi-source leachate applies, identify the applicable constituents on the F039-UHC Constituent sheet. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, use the F039-UHCConstituent sheet to identify any applicable UHCs

REF #	3. US EPA HAZARDOUS WASTE CODE(S) AND STATE CODE(S), (if applicable)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
	D004,	TCLP Arsenic		A
	D008,	TCLP Lead		A
	D011,	TCLP Silver		A
	D018	TCLP Benzene		A

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here:

If no UHCs are present in the waste upon its initial generation check here: NONE

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here:

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, A1, A2, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed belowWhere these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.

[ ] A.1 for Hazardous Debris: "This hazardous debris is subject ot the alternative treatment standards of 40 CFR Part 268.45"

[ ] A.2 for Soils: "This hazardous waste soil is subject to the alternative treatment standards of 40 CFR Part 268.49"

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.

[ ] For Hazardous Debris: "This hazardous debris is subject ot the alternative treatment standards of 40 CFR Part 268.45

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature: Joshua Norman Title: Waste Engineer Date: 8/16/2022

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM

Generator Name: Four Rivers Nuclear Partnership UHW Manifest No.: 023531984 JJK

Profile No.: RS22-08-008 Container No: 130053-03

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater [X] Wastewater [ ]

2. Identify ALL USEPA hazardous waste codes and State codes (if applicable) that apply to this waste shipment, as defined by 40 CFR 261 and/or applicable state regulations. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the F039-UHC Constituent sheet. If F039, multi-source leachate applies, identify the applicable constituents on the F039-UHC Constituent sheet. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, use the F039-UHCConstituent sheet to identify any applicable UHCs

REF #	3. US EPA HAZARDOUS WASTE CODE(S) AND STATE CODE(S), (If applicable)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
	D003	Reactive		A

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here:

If no UHCs are present in the waste upon its initial generation check here: NONE

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here:

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, A1, A2, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed belowWhere these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.

[ ] A.1 for Hazardous Debris: "This hazardous debris is subject ot the alternative treatment standards of 40 CFR Part 268.45"

[ ] A.2 for Soils: "This hazardous waste soil is subject to the alternative treatment standards of 40 CFR Part 268.49"

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.

[ ] For Hazardous Debris: "This hazardous debris is subject ot the alternative treatment standards of 40 CFR Part 268.45

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature: Joshua Norman Title: Waste Engineer Date: 8/16/2022

Form A-1
Page 1

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM

Generator Name: Four Rivers Nuclear Partnership UHW Manifest No.: 023531984 JJK

Profile No.: RS22-07-049, RS22-08-004 Container No: 130060-01, 130055-01

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater [X] Wastewater [ ]

2. Identify ALL USEPA hazardous waste codes and State codes (if applicable) that apply to this waste shipment, as defined by 40 CFR 261 and/or applicable state regulations. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the F039-UHC Constituent sheet. If F039, multi-source leachate applies, identify the applicable constituents on the F039-UHC Constituent sheet. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, use the F039-UHCConstituent sheet to identify any applicable UHCs

REF #	3. US EPA HAZARDOUS WASTE CODE(S) AND STATE CODE(S), (If applicable)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
	D009	Elemental Mercury		A

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here:

If no UHCs are present in the waste upon its initial generation check here: NONE

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here:

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, A1, A2, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed belowWhere these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.

[ ] A.1 for Hazardous Debris: "This hazardous debris is subject ot the alternative treatment standards of 40 CFR Part 268.45"

[ ] A.2 for Soils: "This hazardous waste soil is subject to the alternative treatment standards of 40 CFR Part 268.49"

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.

[ ] For Hazardous Debris: "This hazardous debris is subject ot the alternative treatment standards of 40 CFR Part 268.45

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature: John Norman Title: Waste Engineer Date: 8/16/2022

Form A-1
Page 1

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982	2	1-270-441-6333	023682004 JJK

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of
FRNP 5511 Hobbs Road, Kevil, KY 42053
Generator's Phone: 270-441-5310

Generator's Site Address (if different than mailing address)
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: RSB LOGISTICS Inc. — U.S. EPA ID Number: WAR000012005

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Treatment Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number: UTD982598888

	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
GENERATOR	RQ	1. NA 3082, Hazardous waste, liquid, n.o.s., (PCB, Benzene), 9, PG III, (PCB, D018)	13	DM	2025	K	D018 D021 D027 D032
	RQ	2. NA 3082, Hazardous waste, liquid, n.o.s., (Benzene,Tetrachloroethylene), 9, PG III, (D018, D039)	1	DM	171	K	D018 D039
	RQ	3. NA 3082, Hazardous waste, liquid, n.o.s., (Barium, Selenium), 9, PG III, (D010)	1	DM	79	K	D005 D010

Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.

Truck: 56020 Trailer: 253240 TID: 0349390 Accumulation Start Date: 01/13/22 PCB Start Date: 03/02/22
ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator
Dedicated Service Shipment, See Attachment for Additional Info Shipment ID: 9750-09-0028

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Robert Madis Blake Cleary BC 6/10/22 — Signature: BC 6-10-2022 — Month 6 Day 10 Year 22

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Blake Cleary on BehalfOF FRNP — Signature: Blake Cleary — Month 06 Day 10 Year 22
Transporter 2 Printed/Typed Name: Robert Madis — Signature: — Month 6 Day 10 Year 22

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

RECEIVED JUN 14 2022 BY:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Albert Evans — Signature: — Month 6 Day 14 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Manifest Number: 023682004JJK

Shipment ID Number: 9750-09-0028

Shipment Date: 6/10/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Storage Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	Net Wt (lb)	Net Wt (Kg)
9b.1	122645	122645-01	PAD22C50402	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/02/22	03/02/22	6.01	426	193.23	370	168
9b.1	122645	122645-02	PAD22C50403	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/02/22	03/02/22	6.68	398	180.53	342	155
9b.1	122645	122645-03	PAD22C50404	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	~~03/02/22~~ 03/03/22	~~03/02/22~~ 03/03/22	6.82	412	186.88	356	161
9b.1	122645	122645-04	PAD22C50405	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	~~03/02/22~~ 03/03/22	6.68	412	186.88	356	161
9b.1	122645	122645-05	PAD22C50406	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	03/03/22	6.82	424	192.32	368	167
9b.1	122645	122645-06	PAD22C50407	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	03/03/22	6.82	422	191.41	366	166
9b.1	122645	122645-07	PAD22C50408	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	03/03/22	6.68	418	189.60	362	164
9b.1	122645	122645-08	PAD22C50409	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	~~03/02/22~~ 03/03/22	6.81	420	190.51	364	165
9b.1	122645	122645-09	PAD22C50410	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	~~03/02/22~~ 03/03/22	6.8	420	190.51	364	165
9b.1	122645	122645-10	PAD22C50411	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	~~03/02/22~~ 03/03/22	6.68	423	191.87	367	166
9b.1	122645	122645-11	PAD22C50412	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	~~03/02/22~~ 03/03/22	6.82	440	199.58	384	174
9b.1	122645	122645-12	PAD22C50413	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	~~03/02/22~~ 03/03/22	6.68	414	187.79	358	162
9b.1	122645	122645-13	PAD22C50414	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	03/03/22	~~03/02/22~~ 03/03/22	1.6	163	73.94	107	49
9b.2	121458	121458-18	PAD22C40137	USED OIL FROM MOBILE EQUIPMENT	01/13/22	N/A	6.8	432	195.95	376	171
9b.3	122233	122233-12	PAD22C50210	Used Lube Oil	01/31/22	N/A	4.68	225	102.06	175	79
		Totals	**15**				**93.38**	**5849**	**2653**	**5015**	**2275**

BC 04/10/23
changed date on 04/10/23

122645-01-13 122645-01 through 13

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 02368 2004 JJK

Profile No.: 9750-09-0028 State Manifest No.: NA

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater ☒ Wastewater ☐
2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	D018	TCLP Benzene	☐	A
2	D021	TCLP Chlorobenzene	☐	A
3	D027	TCLP 1,4-Dichlorobenzene	☐	A
4	D032	TCLP Hexachlorobenzene	☐	A

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here ☐
If no UHCs are present in the waste upon its initial generation check here: ☒
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here: ☐

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
☐ For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
☐ For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2022.03.09 16:38:27 -05'00' Title Waste Engineer Date 3/9/2022

Form A1
Page 1 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS[2]					
F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP)[3]
Benzene (F005)	0.14	10	Methylene chloride (F001, F002)	0.089	30
n-Butanol (n-butyl alcohol) (F003)	5.6	2.6	Methyl ethyl ketone (F005)	0.28	36
Carbon disulfide (F005)	3.8	4.8 (TCLP)[3]	Methyl isobutyl ketone (F003)	0.14	33
Carbon tetrachloride (F001)	0.057	6.0	Nitrobenzene (F004)	0.068	14
Chlorobenzene (F002)	0.057	6.0	2-Nitropropane (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	INCIN
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethylene (F001, F002)	0.056	6.0
Cyclohexanone (F003)	0.36	0.75 (TCLP)[3]	Toluene (F005)	0.080	10
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30
Isobutanol (Isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p-isomers) (F003)	0.32	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

[2] For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of the constituents or less than 10x the standard listed.

[3] These solvents require a TCLP standard with units of mg/l.

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) – Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682004 JJK

Profile No.: 9750-09-0028 State Manifest No.: NA

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself IS NOT an acceptable Land Disposal Notification and Certification Form.

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
5			☐	
6			☐	
7			☐	
8			☐	
9			☐	
10			☐	
11			☐	
12			☐	
13			☐	
14			☐	
15			☐	
16			☐	
17			☐	
18			☐	
19			☐	
20			☐	
21			☐	
22		JW 3/9/2022	☐	
23			☐	
24			☐	
25			☐	
26			☐	
27			☐	
28			☐	
29			☐	
30			☐	
31			☐	
32			☐	
33			☐	
34			☐	
35			☐	

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2022.03.09 16:37:58 -05'00'

Title Waste Engineer Date 3/9/2022

Form A2
Page 1 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682004JJK

Profile No.: 9750-09-0028 State Manifest No.: NA

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself IS NOT an acceptable Land Disposal Notification and Certification Form.

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
36			☐	
37			☐	
38			☐	
39			☐	
40			☐	
41			☐	
42			☐	
43			☐	
44			☐	
45			☐	
46			☐	
47			☐	
48			☐	
49			☐	
50			☐	
51			☐	
52			☐	
53			☐	
54		JW 3/9/2022	☐	
55			☐	
56			☐	
57			☐	
58			☐	
59			☐	
60			☐	
61			☐	
62			☐	
63			☐	
64			☐	
65			☐	

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2022.03.09 16:37:31 -05'00'

Title Waste Engineer Date 3/9/2022

Form A2
Page 2 of 2

F039/UNDERLYING HAZARDOUS CONSTITUENT (UTS) (Phase IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682004 JJK

Profile No.: 9750-09-0028 State Manifest No.: NA

If D001-D043 requires treatment to the 40 CRF 268.48 standards, then each underlying hazardous constituent (UHC) present in the waste at the point of generation and at a level above the Universal Treatment Standard (UTS) constituent specific standard must be listed. Write the letter (A1, B1, B2, B3, or C that corresponds to the letter on the land disposal form A1) beside each constituent present to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to 40 CFR 268.49 standards, then each UHC in the waste at the point of generation and at a level above 10 times the UTS must be listed. Write the appropriate letter which corresponds to the letter on the LDR form.

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene		0.059	3.4	2-Chloro-1,3-butadiene		0.057	0.28[1]
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	38[1]	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform		0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acylamide		19[1]	23[1]	p-Chloro-m-cresol		0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.062[1]	NA[1]
Aldicarb sulfone		0.056[1]	0.28[1]	Chloromethane/Methyl chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene		0.059	3.4
Aramite		0.36	NA	o-Cresol		0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol		0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol		0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate		0.056[1]	1.4[1]
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l[1]
Barban		0.056[1]	1.4[1]	o,p'-DDD		0.023	0.087
Bendiocarb		0.056[1]	1.4[1]	p,p'-DDD		0.023	0.087
Benomyl		0.056[1]	1.4[1]	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055[1]	6.0[1]	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene[3]		0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene[3]		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo (g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/ Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.042[1]	1.4[1]	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006[1]	0.14[1]	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056[1]	1.4[1]	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006[1]	0.14[1]	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056[1]	1.4[1]	2.6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP[1]	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan		0.028[1]	1.4[1]	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)	JW 3/9/2022	0.0033	0.26	trans-1,3-Dichloropropylene	JW 3/9/2022	0.036	18
p-Chloroaniline		0.46	16	Dieldrin		0.017	0.13
Chlorobenzene		0.057	6.0	Diethyl phthalate		0.20	28

Form B1
Page 1 of 3

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate		0.10	NA	p-Dimethylaminoazobenzene		0.13[1]	NA
2,4-Dimethyl phenol		0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate		0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate		0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	NA
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.056[1]	1.4[1]
2,6-Dinitrotoluene		0.55	28	Mexacarbate		0.056[1]	1.4[1]
Di-n-octyl phthalate		0.017	28	Molinate		0.042[1]	1.4[1]
Di-n-propylnitrosamine		0.40	14	Naphthalene		0.059	5.6
1,4-Dioxane		12.0	170	2-Naphthylamine		0.52	NA
Diphenylamine[3]		0.92	13[1]	o-Nitroaniline		0.27[1]	14[1]
Diphenylnitrosamine[3]		0.92	13[1]	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine		0.087	NA	Nitrobenzene		0.068	14
Disulfoton		0.017	6.2	5-Nitro-o-toluidine		0.32	28
Dithiocarbamates (total)		0.028	28[1]	o-Nitrophenol		0.028[1]	13[1]
Endosulfan I		0.023	0.066	p-Nitrophenol		0.12	29
Endosulfan II		0.029	0.13	N-Nitrosodiethylamine		0.40	28
Endosulfan sulfate		0.029	0.13	N-Nitrosodimethylamine		0.40	2.3[1]
Endrin		0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17
Endrin aldehyde		0.025	0.13	N-Nitrosomethylethylamine		0.40	2.3
EPTC		0.042[1]	1.4[1]	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate		0.34	33	N-Nitrosopiperidine		0.013	35
Ethyl benzene		0.057	10	N-Nitrosopyrrolidine		0.013	35
Ethyl cyanide/Propanenitrile		0.24	360	Oxamyl		0.056[1]	0.28[1]
Ethyl ether		0.12	160	Parathion		0.014	4.6
Bis(2-Ethylhexyl)phthalate		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)		0.10	10
Ethyl methacrylate		0.14	160	Pebulate		0.042[1]	1.4[1]
Ethylene oxide		0.12	NA	Pentachlorobenzene		0.055[1]	10[1]
Famphur		0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene		0.068	3.4	PeCDFs(All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene		0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride		0.056[1]	1.4[1]	Pentachloronitrobenzene		0.055	4.8
Heptachlor		0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide		0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene		0.055	5.6	Phenol		0.039	6.2
Hexachlorocyclopentadiene		0.057	2.4	Phorate		0.021	4.6
HxCDDs (All Hexachrorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid		0.055[1]	28[1]
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride		0.055	28[1]
Hexachloroethane		0.055	30	Physostigmine		0.056[1]	1.4[1]
Hexachloropropylene		0.035	30	Physostigmine salicylate		0.056[1]	1.4[1]
Indeno(1,2,3-c,d)pyrene		0.0055	3.4	Promecarb		0.056[1]	1.4[1]
Iodomethane		0.19	65	Pronamide		0.093	1.5
Isobutyl alcohol		5.6	170	Propham		0.056[1]	1.4[1]
Isodrin		0.021	0.066	Propoxur		0.056[1]	1.4[1]
Isosafrole		0.081	2.6	Prosulfocarb		0.042[1]	1.4[1]
Kepone		0.0011	0.13	Pyrene		0.067	8.2
Methacrylonitrile		0.24	84	Pyridine		0.014	16
Methanol		5.6	0.75 mg/l[1]	Safrole		0.081	22
Methapyrilene		0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb		0.056[1]	1.4[1]	1,2,4,5-Tetrachlorobenzene		0.055	14
Methomyl		0.028[1]	0.14[1]	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor	JW 3/9/2022	0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)	JW 3/9/2022	0.000063	0.001
3-Methylcholanthrene		0.0055	15	1,1,1,2-Tetrachloroethane		0.057	6.0
4,4'-Methylene bis(2-chloroaniline)		0.50	30	1,1,2,2-Tetrachloroethane		0.057	6.0

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene		0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony		1.9	2.1 mg/l TCLP
Thiodicarb		0.0191	1.4[1]	Antimony		1.9	1.15 mg/l TCLP[4]
Thiophanate-methyl		0.0561	1.4[1]	Arsenic		1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l TCLP[4]
Triallate		0.042[1]	1.4[1]	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP[4]
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP[4]
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP[4]
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30[1]
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA[4]
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l[4] TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081[1]	1.5[1]	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate		0.11	0.10[1]	Nickel		3.98	11 mg/l TCLP[4]
Vernolate		0.042[1]	6.0[1]	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride	JW 3/9/2022	0.27	6.0	Selenium		0.82	5.7 mg/l TCLP[5]
Xylenes – mixed isomers (sum of o-,m-, and p-xylene		0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP[4]
				Sulfide		14	NA[2]
				Thallium		1.4	0.078 mg/l TCLP[1]
	JW 3/9/2022			Thallium	JW 3/9/2022	1.4	0.20 mg/l TCLP[4]
				Vanadium		4.3[2]	1.6 mg/l TCLP[2]
				Zinc		2.61	4.3 mg/l TCLP[2]

[1] These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes.

[2] Not an underlying hazardous constituent requiring treatment in a D001-D043 waste.

[3] These compounds are regulated by the sum of their concentration instead of as individual constituents.

[4] These constituents are effective in authorized states or states with no LDR program on 8/24/99. These concentrations are effective in all other states upon adoption by the state.

[5] Effective 8/24/98 in unauthorized states or states with no LDR program. Selenium at 5.7 mg/l is not an underlying hazardous constituent in D001-D043 waste. This becomes effective in authorized states upon adoption by the state.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982	2	1-270-441-6333	023682090 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP)
on behalf of FRNP
Generator's Phone: 5511 Hobbs Road, Kevil, KY 42053

Generator's Site Address (if different than mailing address)
FRNP on behalf of the FRNP
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Tri-state Motor Transit, CO — U.S. EPA ID Number: MOD095038998

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Treatment Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 3077, Environmentally hazardous substance, solid, n.o.s. (PCB), 9, PG-III	1	CM	808	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: Truck: 881 Van: 224043 TID: 0349706
PCB Start Date: 06/27/04
ERG # 171 In the event of an RQ Release, call 1-800-424-8802
If undeliverable, return to generator
Dedicated Use Shipment See PCB Attachment for Additional Info
Shipment ID: 9750-04-0012

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Candace Gillette on behalf of FRNP — Signature: Candace Gillette — Month 07 Day 26 Year 22

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Sergio. Nino — Signature: [signature] — Month 7 Day 26 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

RECEIVED JUL 29 2022 BY: [signature]

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Albert Evans — Signature: [signature] — Month 7 Day 29 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYST

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 023682090 JJK

Shipment ID Number: 9750-04-0012

Shipment Date: 7/26/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	Net WT (lb)	Net Wt (Kg)
9b.1	122473	122473-01	PAD21C47085	Transformer parts and PPE associated with transformers	06/27/04	90	2574	1168	1782	808
		Totals	1			90	2574	1168	1782	808

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: KY 8890008882
2. Page 1 of: 2
3. Emergency Response Phone: 1-270-441-6333
4. Manifest Tracking Number: 023682097 JJK

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP)
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone: ~~Phone #: 270-340-0882~~

Generator's Site Address (if different than mailing address)
FRNP on behalf of the FRNP
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Tri-State Motor Transit, CO
U.S. EPA ID Number: MOD095038998

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Treatment Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB, Asbestos), Np-237, Tc-99, U-234, Solid/Oxide, 54 MBq, Fissile Excepted	1	CM	717	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Truck: 11005 Trailer: 3989004
PCB Start Date: 03/23/22
ERG # 162 In the event of an RQ Release, call 1-800-424-8802
If undeliverable, return to generator
Exclusive Use Shipment See PCB Attachment for Additional Info
Shipment ID: 7340-08-0023

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Candace Gillette on behalf of FRNP
Signature: Candace Gillette
Month: 8 Day: 4 Year: 22

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joseph Thornton
Signature:
Month: 8 Day: 4 Year: 22
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

RECEIVED AUG 08 2022 BY:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Albert Gunn
Signature:
Month: 8 Day: 8 Year: 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Additional PCB Information Attachment, Page 2 of 2

Manifest Number: 023682097 JJK

Shipment ID Number: 7340-08-0023

Shipment Date: 8/4/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	DTS	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	Net WT (lb)	Net Wt (Kg)
9b.1	122431	122431-04	PAD22C50169	C-333 BCS Waste from removal of Transite Panels with PCB Contamination	03/23/22	250	9080	4119	1580	717
		Totals	1			250	9080	4119	1580	717

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: KY 8890008982
2. Page 1 of: 2
3. Emergency Response Phone: 1-270-441-6333
4. Manifest Tracking Number: 023682104 JJK

GENERATOR

5. Generator's Name and Mailing Address:
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address):
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: CAST Transportation — U.S. EPA ID Number: COR000005389

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
EnergySolutions Clive Disposal Site-Waste Bulk Facility
US I-80 Exit 49, Clive, UT 84029
1-435-884-0155
Facility's Phone: — U.S. EPA ID Number: UTD982598888

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 2912, Radioactive material, low specific activity (LSA-), 7, (PCB's), Am-241, Pu-239, Th-230, Solid/Oxide, 35 MBq, Fissile Excepted	1	CM	354	K	
	2.					
	3.					
	4.					

ST 4-26-22

14. Special Handling Instructions and Additional Information:
Truck: 1443 Trailer: OTR 107 PCB Start Date: ~~03/17/22~~ 3/23/22
ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator
Exclusive Use Shipment, See PCB Attachment for Additional Info Shipment ID: 7340-08-0024

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Candace Gillette on behalf of FRNP — Signature: Candace Gillette — Month 08 Day 23 Year 22

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CAM GRIGGS — Signature — Month 8 Day 23 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

RECEIVED
AUG 26 2022
BY:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Albert Evans — Signature — Month 8 Day 26 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 023582104 JJK

Shipment ID Number: 7340-08-0024

Shipment Date: 8/23/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	122193	122193-09	PAD22C50725	EPOXY PAINT CHIPS, VEGETATION AND PPE	~~03/17/22~~ 3/24/22	81	1816	824	780	354	35
		Totals	1			81	1816	824	780	354	35

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
KY 8890008982	2	1-270-441-6333	023682106 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address)
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Tri-State Motor Transit — U.S. EPA ID Number: MOD095038998

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Waste Treatment Facility
US I-80 Exit 49, Clive, UT 84029
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 3321, Waste, Radioactive material, low specific activity (LSA-II), 7, (D004, PCB), Th-230, U-234, Solid/Oxide, 2 MBq, Fissile Excepted	1	DM	14	K	D004, D006, D007, D008
	2. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
TRUCK: 215011 VAN: 174036 TID: 0349302 PCB DTS: 05-17-2022 Accumulation Starte Date: 05/17/22
ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator
Exclusive Use Shipment PM02548 Shipment ID: 9750-03-0007

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Blake Cleary on Behalf of FRNP — Signature: Blake Cleary — Month 08 Day 29 Year 22

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: IRENE Bridge — Signature: Irene Bridge — Month 8 Day 29 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Justin Lee — Signature: Justin Lee — Month 9 Day 1 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

RECEIVED
SEP 06 2022
BY:

Additional Information Attachment, Page 2 of 2

Manifest Number: 023682106JJK

Shipment ID Number: 9750-03-0007

Shipment Date: 8/29/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date To Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	122717	122717-01	PAD22C50629	PF MISC. VACUUM WASTE	05/17/22	05/17/22	5	86	39	30	14	2
		Totals	**1**				**5**	**86**	**39**	**30**	**14**	**2**

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682106JJK

Profile No.: 9750-03-0007 State Manifest No.: NA

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater ☒ Wastewater ☐
2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	D004	Arsenic	☒	A
2	D006	Cadmium	☒	A
3	D007	Chromium	☒	A
4	D008	Lead	☒	A

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here ☒
If no UHCs are present in the waste upon its initial generation check here: ☐
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here: ☐

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
☐ For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
☐ For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature JEFFREY HOLLAWAY (Affiliate) Digitally signed by JEFFREY HOLLAWAY (Affiliate) Date: 2022.07.13 11:39:15 -05'00' Title Waste Engineer Date 07-13-2022

Form A1
Page 1 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS[2]					
F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP)[3]
Benzene (F005)	0.14	10	Methylene chloride (F001, F002)	0.089	30
n-Butanol (n-butyl alcohol) (F003)	5.6	2.6	Methyl ethyl ketone (F005)	0.28	36
Carbon disulfide (F005)	3.8	4.8 (TCLP)[3]	Methyl isobutyl ketone (F003)	0.14	33
Carbon tetrachloride (F001)	0.057	6.0	Nitrobenzene (F004)	0.068	14
Chlorobenzene (F002)	0.057	6.0	2-Nitropropane (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	INCIN
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethylene (F001, F002)	0.056	6.0
Cyclohexanone (F003)	0.36	0.75 (TCLP)[3]	Toluene (F005)	0.080	10
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30
Isobutanol (Isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p-isomers) (F003)	0.32	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

[2] For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of the constituents or less than 10x the standard listed.

[3] These solvents require a TCLP standard with units of mg/l.

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) – Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

Form A1
Page 2 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682106JJK

Profile No.: 4750-03-0007 State Manifest No.: NA

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself IS NOT an acceptable Land Disposal Notification and Certification Form.

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
5			☐	
6			☐	
7			☐	
8			☐	
9			☐	
10			☐	
11			☐	
12			☐	
13			☐	
14			☐	
15			☐	
16			☐	
17			☐	
18			☐	
19			☐	
20			☐	
21			☐	
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23			☐	
24			☐	
25			☐	
26			☐	
27			☐	
28			☐	
29			☐	
30			☐	
31			☐	
32			☐	
33			☐	
34			☐	
35			☐	

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature JEFFREY HOLLAWAY (Affiliate) Digitally signed by JEFFREY HOLLAWAY (Affiliate) Date: 2022.07.13 11:42:27 -05'00'

Title Waste Engineer Date 07-13-2022

Form A2
Page 1 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682106 JJK

Profile No.: 9750-03-0007 State Manifest No.: NA

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself IS NOT an acceptable Land Disposal Notification and Certification Form.

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
36			☐	
37			☐	
38			☐	
39			☐	
40			☐	
41			☐	
42			☐	
43			☐	
44			☐	
45			☐	
46			☐	
47			☐	
48			☐	
49			☐	
50			☐	
51			☐	
52			☐	
53			☐	
54			☐	
55			☐	
56			☐	
57			☐	
58			☐	
59			☐	
60			☐	
61			☐	
62			☐	
63			☐	
64			☐	
65			☐	

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature JEFFREY HOLLAWAY (Affiliate) Digitally signed by JEFFREY HOLLAWAY (Affiliate) Date: 2022.07.13 11:45:25 -05'00'

Title Waste Engineer Date 07-13-2022

Form A2
Page 2 of 2

F039/UNDERLYING HAZARDOUS CONSTITUENT (UTS) (Phase IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No.: 023682106 JJK

Profile No.: 9750-03-0007 State Manifest No.: NA

If D001-D043 requires treatment to the 40 CRF 268.48 standards, then each underlying hazardous constituent (UHC) present in the waste at the point of generation and at a level above the Universal Treatment Standard (UTS) constituent specific standard must be listed. Write the letter (A1, B1, B2, B3, or C that corresponds to the letter on the land disposal form A1) beside each constituent present to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to 40 CFR 268.49 standards, then each UHC in the waste at the point of generation and at a level above 10 times the UTS must be listed. Write the appropriate letter which corresponds to the letter on the LDR form.

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene		0.059	3.4	2-Chloro-1,3-butadiene		0.057	0.28[1]
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	38[1]	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform		0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acylamide		19[1]	23[1]	p-Chloro-m-cresol		0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.062[1]	NA[1]
Aldicarb sulfone		0.056[1]	0.28[1]	Chloromethane/Methyl chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene		0.059	3.4
Aramite		0.36	NA	o-Cresol		0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol		0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol		0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate		0.056[1]	1.4[1]
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l[1]
Barban		0.056[1]	1.4[1]	o,p'-DDD		0.023	0.087
Bendiocarb		0.056[1]	1.4[1]	p,p'-DDD		0.023	0.087
Benomyl		0.056[1]	1.4[1]	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055[1]	6.0[1]	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene[3]		0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene[3]		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo (g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/ Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.042[1]	1.4[1]	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006[1]	0.14[1]	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056[1]	1.4[1]	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006[1]	0.14[1]	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056[1]	1.4[1]	2.6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP[1]	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan		0.028[1]	1.4[1]	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
p-Chloroaniline		0.46	16	Dieldrin		0.017	0.13
Chlorobenzene		0.057	6.0	Diethyl phthalate		0.20	28

Form B1
Page 1 of 3

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate		0.10	NA	p-Dimethylaminoazobenzene		0.13[1]	NA
2,4-Dimethyl phenol		0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate		0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate		0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	NA
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.056[1]	1.4[1]
2,6-Dinitrotoluene		0.55	28	Mexacarbate		0.056[1]	1.4[1]
Di-n-octyl phthalate		0.017	28	Molinate		0.042[1]	1.4[1]
Di-n-propylnitrosamine		0.40	14	Naphthalene		0.059	5.6
1,4-Dioxane		12.0	170	2-Naphthylamine		0.52	NA
Diphenylamine[3]		0.92	13[1]	o-Nitroaniline		0.27[1]	14[1]
Diphenylnitrosamine[3]		0.92	13[1]	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine		0.087	NA	Nitrobenzene		0.068	14
Disulfoton		0.017	6.2	5-Nitro-o-toluidine		0.32	28
Dithiocarbamates (total)		0.028	28[1]	o-Nitrophenol		0.028[1]	13[1]
Endosulfan I		0.023	0.066	p-Nitrophenol		0.12	29
Endosulfan II		0.029	0.13	N-Nitrosodiethylamine		0.40	28
Endosulfan sulfate		0.029	0.13	N-Nitrosodimethylamine		0.40	2.3[1]
Endrin		0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17
Endrin aldehyde		0.025	0.13	N-Nitrosomethylethylamine		0.40	2.3
EPTC		0.042[1]	1.4[1]	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate		0.34	33	N-Nitrosopiperidine		0.013	35
Ethyl benzene		0.057	10	N-Nitrosopyrrolidine		0.013	35
Ethyl cyanide/Propanenitrile		0.24	360	Oxamyl		0.056[1]	0.28[1]
Ethyl ether		0.12	160	Parathion		0.014	4.6
Bis(2-Ethylhexyl)phthalate		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)		0.10	10
Ethyl methacrylate		0.14	160	Pebulate		0.042[1]	1.4[1]
Ethylene oxide		0.12	NA	Pentachlorobenzene		0.055[1]	10[1]
Famphur		0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene		0.068	3.4	PeCDFs(All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene		0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride		0.056[1]	1.4[1]	Pentachloronitrobenzene		0.055	4.8
Heptachlor		0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide		0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene		0.055	5.6	Phenol		0.039	6.2
Hexachlorocyclopentadiene		0.057	2.4	Phorate		0.021	4.6
HxCDDs (All Hexachrorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid		0.055[1]	28[1]
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride		0.055	28[1]
Hexachloroethane		0.055	30	Physostigmine		0.056[1]	1.4[1]
Hexachloropropylene		0.035	30	Physostigmine salicylate		0.056[1]	1.4[1]
Indeno(1,2,3-c,d)pyrene		0.0055	3.4	Promecarb		0.056[1]	1.4[1]
Iodomethane		0.19	65	Pronamide		0.093	1.5
Isobutyl alcohol		5.6	170	Propham		0.056[1]	1.4[1]
Isodrin		0.021	0.066	Propoxur		0.056[1]	1.4[1]
Isosafrole		0.081	2.6	Prosulfocarb		0.042[1]	1.4[1]
Kepone		0.0011	0.13	Pyrene		0.067	8.2
Methacrylonitrile		0.24	84	Pyridine		0.014	16
Methanol		5.6	0.75 mg/l[1]	Safrole		0.081	22
Methapyrilene		0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb		0.056[1]	1.4[1]	1,2,4,5-Tetrachlorobenzene		0.055	14
Methomyl		0.028[1]	0.14[1]	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor		0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)		0.000063	0.001
3-Methylcholanthrene		0.0055	15	1,1,1,2-Tetrachloroethane		0.057	6.0
4,4'-Methylene bis(2-chloroaniline)		0.50	30	1,1,2,2-Tetrachloroethane		0.057	6.0

Form B1
Page 2 of 3

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene		0.056	6.0	**INORGANIC CONSTITUENTS**			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony		1.9	2.1 mg/l TCLP
Thiodicarb		0.0191	1.4[1]	Antimony		1.9	1.15 mg/l TCLP[4]
Thiophanate-methyl		0.0561	1.4[1]	Arsenic	A	1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l TCLP[4]
Triallate		0.042[1]	1.4[1]	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP[4]
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP[4]
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP[4]
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30[1]
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA[4]
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l[4] TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081[1]	1.5[1]	Nickel	A	3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate		0.11	0.10[1]	Nickel		3.98	11 mg/l TCLP[4]
Vernolate		0.042[1]	6.0[1]	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride		0.27	6.0	Selenium		0.82	5.7 mg/l TCLP[5]
Xylenes – mixed isomers (sum of o-,m-, and p-xylene		0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP[4]
				Sulfide		14	NA[2]
				Thallium		1.4	0.078 mg/l TCLP[1]
				Thallium		1.4	0.20 mg/l TCLP[4]
				Vanadium		4.3[2]	1.6 mg/l TCLP[2]
				Zinc	A	2.61	4.3 mg/l TCLP[2]

[1] These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes.

[2] Not an underlying hazardous constituent requiring treatment in a D001-D043 waste.

[3] These compounds are regulated by the sum of their concentration instead of as individual constituents.

[4] These constituents are effective in authorized states or states with no LDR program on 8/24/99. These concentrations are effective in all other states upon adoption by the state.

[5] Effective 8/24/98 in unauthorized states or states with no LDR program. Selenium at 5.7 mg/l is not an underlying hazardous constituent in D001-D043 waste. This becomes effective in authorized states upon adoption by the state.

Form B1
Page 3 of 3

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	KY 8890008982	2	1-270-441-6333	023682110 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy
5511 Hobbs Road, Kevil, KY 42053
Generator's Phone:

Generator's Site Address (if different than mailing address)
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Tri-State Motor Transit, Co — U.S. EPA ID Number: MOD095038998

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Waste Treatment Facility
US I-80 Exit 49, Clive, UT 84029
1-435-884-0155
Facility's Phone: — U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Am-241, Pu-238, Pu-239, To-99, Th-230, ~~Liquid/Oxide, 0.4 MBq, Fissile Excepted~~	1	DM	170 K		
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Truck: 215011 Trailer: 174036 Tid: 0349302 PR09362 PCB Date to Storage: 01/12/222
ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator
Exclusive Use Shipment, See PCB Attachment for Additional Info Shipment ID: 9750-04-0013

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Candace Gillette on behalf of FRNP — Signature: Candace Gillette — Month 08 Day 29 Year 22

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: IRENE Beidge — Signature: Irene Bridge — Month 8 Day 29 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Justin Lee — Signature — Month 9 Day 1 Year 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

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BY:

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 023682110 JJK

Shipment ID Number: 9750-04-0013

Shipment Date: 8/29/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	122622	122622-01	PAD22C50117	VENTILATION DUCT OIL AND WATER	01/12/22	5.95	450	204	394	179	0.4
		Totals	1			5.95	450	204	394	179	0.4

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: KY 8890008982
2. Page 1 of: 2
3. Emergency Response Phone: 1-270-441-6333
4. Manifest Tracking Number: 023682111 JJK

GENERATOR

5. Generator's Name and Mailing Address: Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy, 5511 Hobbs Road, Kevil, KY 42053
Generator's Site Address (if different than mailing address): FRNP on behalf of the U.S. Department of Energy, Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053
Generator's Phone:

6. Transporter 1 Company Name: Tri-State Motor Transit Co — U.S. EPA ID Number: MOD095038998

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: EnergySolutions Clive Disposal Site-WasteTreatment Facility, US I-80 Exit 49, Clive, UT 84029, 1-435-884-0155 — U.S. EPA ID Number: UTD982598898
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. ~~UN 2913, Radioactive material, surface contaminated objects,~~ (SCO, II), 7, (PCB), Am-241, Np-237, Pu-238, Tc-99, Th-230, Solid/Oxide, 1.2 MBq, Fissile Excepted	1	DM	88	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: ~~Truck: 215011 Trailer: 174036~~ CS 8/29/22 — PCB Date to Storage: 01/31/22
ERG # 162 In the event of an RQ Release, call 1-800-424-8802 — If undeliverable, return to generator
Exclusive Use Shipment, See PCB Attachment for Additional Info — Shipment ID: 7340-08-0025
Truck: 215011 Trailer: 174036 Tid: 0349282 PR09363

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Candace Gillette on behalf of FRNP — Signature: Candace Gillette — Month: 08 Day: 29 Year: 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: TRENE BRIDGE — Signature: Trene Bridge — Month: 8 Day: 29 Year: 22
Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Justin Lee — Signature — Month: 9 Day: 1 Year: 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

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SEP 06 2022
BY:

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 023682111 JJK

Shipment ID Number: 7340-08-0025

Shipment Date: 8/29/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	122540	122540-01	PAD22C50157	PCB LIGHT BALLAST	01/31/22	2.67	179	81	149	68	1.2
		Totals	1			2.67	179	81	149	68	1.2

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to the attached Agreement. FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labelling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: KY 8890008982
2. Page 1 of: 2
3. Emergency Response Phone: 1-270-441-6333
4. Manifest Tracking Number: 023682112 JJK

GENERATOR

5. Generator's Name and Mailing Address
Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy
Generator's Phone: 5511 Hobbs Road, Kevil, KY 42053

Generator's Site Address (if different than mailing address)
FRNP on behalf of the U.S. Department of Energy
Paducah Gaseous Diffusion Plant,
5511 Hobbs Rd, Kevil, KY 42053

6. Transporter 1 Company Name: Tri-State Motor Transit, Co
U.S. EPA ID Number: MOD095038998

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EnergySolutions Clive Disposal Site-Waste Treatment Facility
Facility's Phone: 1-435-884-0155
U.S. EPA ID Number: UTD982598898

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
RQ	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Np-237, Pu-238, Pu-239, TC-99, Th-230, Solid/Oxide, ~~21.40 MBq, Fissile Excepted~~	3	DM	108	K	
RQ	2. NA 3082, Hazardous waste, liquid, n.o.s., (Benzene, Chlorobenzene), 9, PG III, (D018, PCB)	1	DM	200	K	D018 D021 D027 D032
RQ	3. NA 3082, Hazardous waste, liquid, n.o.s., (Benzene, Tetrachloroethylene), 9, PG III, (D018, D039)	1	DM	171	K	D018 D039
	4.					

~~Truck: 215011 Van: 174838 TID: 8349302 PCB Date to Storage: 10/19/2021~~ CG 8/29/22 ~~Accumulation Start Date: 04/13/22~~

14. Special Handling Instructions and Additional Information
ERG # 162, 171 In the event of an RQ Release, call 1-800-424-8802
Exclusive Use Shipment
PM02547
If undeliverable, return to generator
Shipment ID: 9750-09-0030
Truck: 215011 Van: 174036 PCB Dat to Storage 10/19/2021 Tid: 6349302

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Candace Gillette on behalf of FRNP
Signature: Candace Gillette
Month / Day / Year:

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: IRENE Bridge
Signature: Irene Bridge
Month / Day / Year: 8 / 29 / 22

Transporter 2 Printed/Typed Name:
Signature:
Month / Day / Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month / Day / Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Justin Lee
Signature:
Month / Day / Year: 9 / 1 / 22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

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BY:

Additional Information Attachment, Page 2 of 2

Manifest Number: 023682112 JJK

Shipment ID Number: 9750-09-0030

Shipment Date: 8/29/2022

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	PCB/Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	122623	122623-05	PAD22C50122	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	N/A	01/25/22	7	143	65	87	39	7.81
9b.1	122623	122623-06	PAD22C50123	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	NA	04/05/22	7	129	59	73	33	6.55
9b.1	122623	122623-07	PAD22C50124	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	NA	06/09/22	7	135	61	79	36	7.09
9b.2	121255	121255-05	PAD21C47548	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING	07/26/22	10/19/21	6.95	497	225	441	200	NA
9b.3	121458	121458-19	PAD22C50339	USED OIL FROM MOBILE EQUIPMENT	04/13/22	N/A	7.08	433	196	377	171	NA
		Totals	**5**				**35.03**	**1337**	**606**	**1057**	**479**	**21.46**

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

121255-05

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No.: 023682112JJK

Profile No.: 9750-09-00030 State Manifest No.: N/A

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater ☒ Wastewater ☐
2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	D018	TCLP Benzene	☐	A
2	D021	TCLP Chlorobenzene	☐	A
3	D027	TCLP 1,4-Dichlorobenzene	☐	A
4	D032	TCLP Hexachlorobenzene	☐	A

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here ☐
If no UHCs are present in the waste upon its initial generation check here: ☒
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here: ☐

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
☐ For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
☐ For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2022.08.04 14:29:31 -04'00' Title Waste Engineer Date 8/4/2022

Form A1
Page 1 of 2

121255-05

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS[2]					
F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	Treatment Standard[1]	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP)[3]
Benzene (F005)	0.14	10	Methylene chloride (F001, F002)	0.089	30
n-Butanol (n-butyl alcohol) (F003)	5.6	2.6	Methyl ethyl ketone (F005)	0.28	36
Carbon disulfide (F005)	3.8	4.8 (TCLP)[3]	Methyl isobutyl ketone (F003)	0.14	33
Carbon tetrachloride (F001)	0.057	6.0	Nitrobenzene (F004)	0.068	14
Chlorobenzene (F002)	0.057	6.0	2-Nitropropane (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	INCIN
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethylene (F001, F002)	0.056	6.0
Cyclohexanone (F003)	0.36	0.75 (TCLP)[3]	Toluene (F005)	0.080	10
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30
Isobutanol (Isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p-isomers) (F003)	0.32	30

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

[2] For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of the constituents or less than 10x the standard listed.

[3] These solvents require a TCLP standard with units of mg/l.

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) – Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

121255-05

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682112 JJK

Profile No.: 9750-09-0030 State Manifest No.: N/A

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself IS NOT an acceptable Land Disposal Notification and Certification Form.

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
5			☐	
6			☐	
7			☐	
8			☐	
9			☐	
10			☐	
11			☐	
12			☐	
13			☐	
14			☐	
15			☐	
16			☐	
17			☐	
18			☐	
19			☐	
20			☐	
21		JW 8/4/2022	☐	
22			☐	
23			☐	
24			☐	
25			☐	
26			☐	
27			☐	
28			☐	
29			☐	
30			☐	
31			☐	
32			☐	
33			☐	
34			☐	
35			☐	

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2022.08.04 14:28:47 -04'00'

Title Waste Engineer Date 8/4/2022

Form A2
Page 1 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682112 JJK

Profile No.: 9750-09-0013 State Manifest No.: NA

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself IS NOT an acceptable Land Disposal Notification and Certification Form.

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
36			☐	
37			☐	
38			☐	
39			☐	
40			☐	
41			☐	
42			☐	
43			☐	
44			☐	
45			☐	
46			☐	
47			☐	
48			☐	
49			☐	
50			☐	
51			☐	
52			☐	
53			☐	
54			☐	
55			☐	
56			☐	
57			☐	
58			☐	
59			☐	
60			☐	
61			☐	
62			☐	
63			☐	
64			☐	
65			☐	

JW 8/4/2022

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2022.08.04 14:28:02 -04'00'

Title Waste Engineer Date 8/4/2022

Form A2
Page 2 of 2

121255-05

F039/UNDERLYING HAZARDOUS CONSTITUENT (UTS) (Phase IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682112 JJK

Profile No.: 9756-09-0030 State Manifest No.: NA

If D001-D043 requires treatment to the 40 CRF 268.48 standards, then each underlying hazardous constituent (UHC) present in the waste at the point of generation and at a level above the Universal Treatment Standard (UTS) constituent specific standard must be listed. Write the letter (A1, B1, B2, B3, or C that corresponds to the letter on the land disposal form A1) beside each constituent present to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to 40 CFR 268.49 standards, then each UHC in the waste at the point of generation and at a level above 10 times the UTS must be listed. Write the appropriate letter which corresponds to the letter on the LDR form.

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene		0.059	3.4	2-Chloro-1,3-butadiene		0.057	0.28[1]
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	38[1]	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform		0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acylamide		19[1]	23[1]	p-Chloro-m-cresol		0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.062[1]	NA [1]
Aldicarb sulfone		0.056[1]	0.28[1]	Chloromethane/Methyl chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene		0.059	3.4
Aramite		0.36	NA	o-Cresol		0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol		0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol		0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate		0.056[1]	1.4[1]
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l[1]
Barban		0.056[1]	1.4[1]	o,p'-DDD		0.023	0.087
Bendiocarb		0.056[1]	1.4[1]	p,p'-DDD		0.023	0.087
Benomyl		0.056[1]	1.4[1]	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055[1]	6.0[1]	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene[3]		0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene[3]		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo (g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/ Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.042[1]	1.4[1]	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006[1]	0.14[1]	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056[1]	1.4[1]	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006[1]	0.14[1]	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056[1]	1.4[1]	2.6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP[1]	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan		0.028[1]	1.4[1]	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)	JW	0.0033	0.26	trans-1,3-Dichloropropylene	JW	0.036	18
p-Chloroaniline	8/4/2022	0.46	16	Dieldrin	8/4/2022	0.017	0.13
Chlorobenzene		0.057	6.0	Diethyl phthalate		0.20	28

Form B1
Page 1 of 3

121255-05

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate	→	0.10	NA	p-Dimethylaminoazobenzene	→	0.13[1]	NA
2,4-Dimethyl phenol		0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate		0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate		0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	NA
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.056[1]	1.4[1]
2,6-Dinitrotoluene		0.55	28	Mexacarbate		0.056[1]	1.4[1]
Di-n-octyl phthalate		0.017	28	Molinate		0.042[1]	1.4[1]
Di-n-propylnitrosamine		0.40	14	Naphthalene		0.059	5.6
1,4-Dioxane		12.0	170	2-Naphthylamine		0.52	NA
Diphenylamine[3]		0.92	13[1]	o-Nitroaniline		0.27[1]	14[1]
Diphenylnitrosamine[3]		0.92	13[1]	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine		0.087	NA	Nitrobenzene		0.068	14
Disulfoton		0.017	6.2	5-Nitro-o-toluidine		0.32	28
Dithiocarbamates (total)		0.028	28[1]	o-Nitrophenol		0.028[1]	13[1]
Endosulfan I		0.023	0.066	p-Nitrophenol		0.12	29
Endosulfan II		0.029	0.13	N-Nitrosodiethylamine		0.40	28
Endosulfan sulfate		0.029	0.13	N-Nitrosodimethylamine		0.40	2.3[1]
Endrin		0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17
Endrin aldehyde		0.025	0.13	N-Nitrosomethylethylamine		0.40	2.3
EPTC		0.042[1]	1.4[1]	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate		0.34	33	N-Nitrosopiperidine		0.013	35
Ethyl benzene		0.057	10	N-Nitrosopyrrolidine		0.013	35
Ethyl cyanide/Propanenitrile		0.24	360	Oxamyl		0.056[1]	0.28[1]
Ethyl ether		0.12	160	Parathion		0.014	4.6
Bis(2-Ethylhexyl)phthalate		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)		0.10	10
Ethyl methacrylate		0.14	160	Pebulate		0.042[1]	1.4[1]
Ethylene oxide		0.12	NA	Pentachlorobenzene		0.055[1]	10[1]
Famphur		0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene		0.068	3.4	PeCDFs(All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene		0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride		0.056[1]	1.4[1]	Pentachloronitrobenzene		0.055	4.8
Heptachlor		0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide		0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene		0.055	5.6	Phenol		0.039	6.2
Hexachlorocyclopentadiene		0.057	2.4	Phorate		0.021	4.6
HxCDDs (All Hexachrorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid		0.055[1]	28[1]
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride		0.055	28[1]
Hexachloroethane		0.055	30	Physostigmine		0.056[1]	1.4[1]
Hexachloropropylene		0.035	30	Physostigmine salicylate		0.056[1]	1.4[1]
Indeno(1,2,3-c,d)pyrene		0.0055	3.4	Promecarb		0.056[1]	1.4[1]
Iodomethane		0.19	65	Pronamide		0.093	1.5
Isobutyl alcohol		5.6	170	Propham		0.056[1]	1.4[1]
Isodrin		0.021	0.066	Propoxur		0.056[1]	1.4[1]
Isosafrole		0.081	2.6	Prosulfocarb		0.042[1]	1.4[1]
Kepone		0.0011	0.13	Pyrene		0.067	8.2
Methacrylonitrile		0.24	84	Pyridine		0.014	16
Methanol		5.6	0.75 mg/l[1]	Safrole		0.081	22
Methapyrilene		0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb		0.056[1]	1.4[1]	1,2,4,5-Tetrachlorobenzene		0.055	14
Methomyl		0.028[1]	0.14[1]	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor	JW 8/4/2022	0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)	JW 8/4/2022	0.000063	0.001
3-Methylcholanthrene		0.0055	15	1,1,1,2-Tetrachloroethane		0.057	6.0
4,4'-Methylene bis(2-chloroaniline)	→	0.50	30	1,1,2,2-Tetrachloroethane	→	0.057	6.0

Form B1
Page 2 of 3

121255-05

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene		0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony		1.9	2.1 mg/l TCLP
Thiodicarb		0.0191	1.4[1]	Antimony		1.9	1.15 mg/l TCLP[4]
Thiophanate-methyl		0.0561	1.4[1]	Arsenic		1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l TCLP[4]
Triallate		0.042[1]	1.4[1]	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP[4]
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP[4]
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP[4]
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30[1]
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA[4]
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l[4] TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081[1]	1.5[1]	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate		0.11	0.10[1]	Nickel		3.98	11 mg/l TCLP[4]
Vernolate		0.042[1]	6.0[1]	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride		0.27	6.0	Selenium		0.82	5.7 mg/l TCLP[5]
Xylenes – mixed isomers (sum of o-,m-, and p-xylene		0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP[4]
				Sulfide		14	NA[2]
				Thallium		1.4	0.078 mg/l TCLP[1]
				Thallium		1.4	0.20 mg/l TCLP[4]
				Vanadium		4.3[2]	1.6 mg/l TCLP[2]
				Zinc		2.61	4.3 mg/l TCLP[2]

8/4/2022

8/4/2022

8/4/2022

[1] These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes.
[2] Not an underlying hazardous constituent requiring treatment in a D001-D043 waste.
[3] These compounds are regulated by the sum of their concentration instead of as individual constituents.
[4] These constituents are effective in authorized states or states with no LDR program on 8/24/99. These concentrations are effective in all other states upon adoption by the state.
[5] Effective 8/24/98 in unauthorized states or states with no LDR program. Selenium at 5.7 mg/l is not an underlying hazardous constituent in D001-D043 waste. This becomes effective in authorized states upon adoption by the state.

APPENDIX B

PCB WASTE CERTIFICATES OF DISPOSAL

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(T)

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-04-0009	95128	12/30/2021	22.5	Landfill	Mixed Waste
9750-04-0010	95234	12/30/2021	7.5	Landfill	Mixed Waste

RECEIVED
JAN 04 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

R EL
For B. Dick
Brennon Dick
Operations Manager

1/3/22
Date

299 S Main Street, Suite 1700, Salt Lake City, Utah 84111. Telephone (801) 649-2000

(T)

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

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R EL for B. Dick
Brennon Dick
Operations Manager

1/3/22
Date

299 S Main Street, Suite 1700, Salt Lake City, Utah 84111. Telephone (801) 649-2000

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CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

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Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-09-0016	95147	03/29/2022	60.8	Landfill	Mixed Waste
9750-09-0021	5211	03/29/2022	24.0	Landfill	Mixed Waste
9750-09-0022	95261	03/29/2022	30.0	Landfill	Mixed Waste

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Brennon Dick Digitally signed by Brennon Dick
Date: 2022.04.04 05:34:30 -06'00'

Brennon Dick
Operations Manager

Date

299 S Main Street, Suite 1700, Salt Lake City, Utah 84111. Telephone (801) 649-2000

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-09-0023	95309	03/11/2022	7.4	Landfill	Mixed Waste
9750-09-0024	5351	03/11/2022	22.2	Landfill	Mixed Waste

received
3-23-22 TS

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.03.22 16:20:31 -06'00'

Brennon Dick
Operations Manager

Date

WASTE CONTROL SPECIALISTS

Certificate of Disposal

Date of Certificate: December 06, 2022

PA ID Number TXD988088464

Regina Pea
Four Rivers Nuclear Partnership
5511 Hobbs Road C-743 Trailer 1
Kevil, KY 42053

Reference:

WCS Profile #:	**WP-9519**
Manifest(s):	**WP-9519-01-12-14-21 UHWM #: 019695317JJK**
Received On:	**December 15, 2021**

This is to certify that the PCB waste shipped to WCS on the above mentioned manifest was disposed of on **December 02, 2022** in the WCS TSCA authorized waste landfill associated with the EPA ID Number above. Disposal is subject to all applicable licenses, permits, authorizations and regulations.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Waste Control Specialists LLC is pleased to have the opportunity to provide you with the quality waste management services that you need. If you have any questions or need further assistance, please feel free to contact me at (432) 525-8726.

Sincerely,
WASTE CONTROL SPECIALISTS LLC

Tom Hannah
Technical Services Project Manager

RECEIVED
DEC 07 2022
BY:

Corporate
17103 Preston Rd. Ste. 200
Dallas, TX 75248
Ph. 682.503.0030
Fax. 214.853.5720

Facility
P.O. Box 1129
Andrews, TX 79714
Ph. 432.525.8500
Fax. 432.203.2359

WASTE CONTROL SPECIALISTS

Certificate of Disposal

Date of Certificate: December 06, 2022

PA ID Number TXD988088464

Regina Pea
Four Rivers Nuclear Partnership
5511 Hobbs Road C-743 Trailer 1
Kevil, KY 42053

Reference:

WCS Profile #:	**WP-9519**
Manifest(s):	**WP-9519-02-12-14-21 UHWM #: 019695318JJK**
Received On:	**December 15, 2021**

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Sincerely,
WASTE CONTROL SPECIALISTS LLC

Tom Hannah
Technical Services Project Manager

RECEIVED
DEC 07 2022
BY:

Corporate
17103 Preston Rd. Ste. 200
Dallas, TX 75248
Ph. 682.503.0030
Fax. 214.853.5720

Facility
P.O. Box 1129
Andrews, TX 79714
Ph. 432.525.8500
Fax. 432.203.2359

ENERGY*SOLUTIONS*

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-09-0023	95309	03/11/2022	7.4	Landfill	Mixed Waste
9750-09-0024	5351	03/11/2022	22.2	Landfill	Mixed Waste

received
3-23-22
TS

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.03.22 16:20:31 -06'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
7340-08-0018	5353	02/04/2022	122.0	Landfill	Mixed Waste

RECEIVED
FEB 11 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick
Brennon Dick
Operations Manager

2-10-22
Date

299 S Main Street, Suite 1700, Salt Lake City, Utah 84111. Telephone (801) 649-2000

WASTE CONTROL SPECIALISTS

Certificate of Disposal

Date of Certificate: December 06, 2022

PA ID Number TXD988088464

Regina Pea
Four Rivers Nuclear Partnership
5511 Hobbs Road C-743 Trailer 1
Kevil, KY 42053

Reference:

WCS Profile #:	**WP-9519**
Manifest(s):	**WP-9519-03 UHWM #: 019695368JJK**
Received On:	**April 12, 2022**

This is to certify that the PCB waste shipped to WCS on the above mentioned manifest was disposed of on **December 02, 2022** in the WCS TSCA authorized waste landfill associated with the EPA ID Number above. Disposal is subject to all applicable licenses, permits, authorizations and regulations.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Waste Control Specialists LLC is pleased to have the opportunity to provide you with the quality waste management services that you need. If you have any questions or need further assistance, please feel free to contact me at (432) 525-8726.

Sincerely,
WASTE CONTROL SPECIALISTS LLC

Tom Hannah
Technical Services Project Manager

RECEIVED
DEC 07 2022
BY:

Corporate
17103 Preston Rd. Ste. 200
Dallas, TX 75248
Ph. 682.503.0030
Fax. 214.853.5720

Facility
P.O. Box 1129
Andrews, TX 79714
Ph. 432.525.8500
Fax. 432.203.2359

WASTE CONTROL SPECIALISTS

Certificate of Disposal

Date of Certificate: December 06, 2022

PA ID Number TXD988088464

Regina Pea
Four Rivers Nuclear Partnership
5511 Hobbs Road C-743 Trailer 1
Kevil, KY 42053

Reference:

WCS Profile #:	**WP-9519**
Manifest(s):	**WP-9519-04 UHWM #: 019695369JJK**
Received On:	**May 10, 2022**

This is to certify that the PCB waste shipped to WCS on the above mentioned manifest was disposed of on **December 02, 2022** in the WCS TSCA authorized waste landfill associated with the EPA ID Number above. Disposal is subject to all applicable licenses, permits, authorizations and regulations.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Waste Control Specialists LLC is pleased to have the opportunity to provide you with the quality waste management services that you need. If you have any questions or need further assistance, please feel free to contact me at (432) 525-8726.

Sincerely,
WASTE CONTROL SPECIALISTS LLC

Tom Hannah
Technical Services Project Manager

RECEIVED
DEC 07 2022
BY:

Corporate
17103 Preston Rd. Ste. 200
Dallas, TX 75248
Ph. 682.503.0030
Fax. 214.853.5720

Facility
P.O. Box 1129
Andrews, TX 79714
Ph. 432.525.8500
Fax. 432.203.2359

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-90-0001	95411	03/24/2022	15.0	Landfill	Mixed Waste

RECEIVED
MAR 29 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.03.29 14:18:15 -06'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-09-0025	95416	12/09/2022	37.5	Landfill	Mixed Waste
9750-09-0026	95453	12/09/2022	51.8	Landfill	Mixed Waste
9750-09-0027	95490	12/09/2022	7.5	Landfill	Mixed Waste
9750-09-0029	82070	12/09/2022	19.0	Landfill	Mixed Waste
9750-09-0030	2112	12/09/2022	37.5	Landfill	Mixed Waste
9750-09-0031	2151	12/19/2022	7.5	Landfill	Mixed Waste

RECEIVED
DEC 27 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.12.20 15:39:28 -07'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
7340-08-0019	95420	03/29/2022	90.0	Landfill	Mixed Waste

RECEIVED
APR 04 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick
Digitally signed by Brennon Dick
Date: 2022.04.04 05:31:53 -06'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-04-0011	95436	12/09/2022	7.5	Landfill	Mixed Waste
9750-04-0013	2110	12/09/2022	7.5	Landfill	Mixed Waste

RECEIVED
DEC 27 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.12.20 15:38:54 -07'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
7340-08-0020	95446	05/12/2022	686.0	Landfill	Mixed Waste

RECEIVED 5/13/2022

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.05.13 14:55:13 -06'00'

Brennon Dick
Operations Manager

Date

ENERGY*SOLUTIONS*

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-90-0002	95450	04/25/2022	4.0	Landfill	Mixed Waste

RECEIVED
APR 29 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

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Brennon Dick Digitally signed by Brennon Dick
Date: 2022.04.29 06:14:07 -06'00'

Brennon Dick
Operations Manager

Date

299 S Main Street, Suite 1700, Salt Lake City, Utah 84111. Telephone (801) 649-2000

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-09-0025	95416	12/09/2022	37.5	Landfill	Mixed Waste
9750-09-0026	95453	12/09/2022	51.8	Landfill	Mixed Waste
9750-09-0027	95490	12/09/2022	7.5	Landfill	Mixed Waste
9750-09-0029	82070	12/09/2022	19.0	Landfill	Mixed Waste
9750-09-0030	2112	12/09/2022	37.5	Landfill	Mixed Waste
9750-09-0031	2151	12/19/2022	7.5	Landfill	Mixed Waste

RECEIVED
DEC 27 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

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Brennon Dick Digitally signed by Brennon Dick
Date: 2022.12.20 15:39:28 -07'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
7340-08-0021	95455	04/26/2022	122.0	Landfill	Mixed Waste

RECEIVED
APR 29 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

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Brennon Dick Digitally signed by Brennon Dick
Date: 2022.04.29 05:56:15 -06'00'

Brennon Dick
Operations Manager

Date

299 S Main Street, Suite 1700, Salt Lake City, Utah 84111. Telephone (801) 649-2000

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-09-0028	82004	12/06/2022	112.5	Landfill	Mixed Waste

RECEIVED 12/15/2022

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.12.08 16:42:05 -07'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-04-0012	82090	09/29/2022	122.0	Landfill	Mixed Waste

RECEIVED
SEP 30 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.09.30 14:21:27 -06'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
7340-08-0023	82097	09/20/2022	686.0	Landfill	Mixed Waste

RECEIVED
SEP 28 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.09.23 07:19:06 -06'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
7340-08-0024	82104	09/12/2022	122.0	Landfill	Mixed Waste
7340-08-0025	2111	09/12/2022	4.0	Landfill	Mixed Waste

RECEIVED
SEP 29 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.09.19 08:56:34 -06'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-03-0007	2106	09/29/2022	7.5	Landfill	Mixed Waste

RECEIVED
SEP 30 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.09.30 14:21:06 -06'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-04-0011	95436	12/09/2022	7.5	Landfill	Mixed Waste
9750-04-0013	2110	12/09/2022	7.5	Landfill	Mixed Waste

RECEIVED
DEC 27 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.12.20 15:38:54 -07'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
7340-08-0025	2111	09/12/2022	4.0	Landfill	Mixed Waste

RECEIVED
SEP 28 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.09.27 16:46:42 -06'00'

Brennon Dick
Operations Manager

Date

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80
Clive, Utah 84029
EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-09-0025	95416	12/09/2022	37.5	Landfill	Mixed Waste
9750-09-0026	95453	12/09/2022	51.8	Landfill	Mixed Waste
9750-09-0027	95490	12/09/2022	7.5	Landfill	Mixed Waste
9750-09-0029	82070	12/09/2022	19.0	Landfill	Mixed Waste
9750-09-0030	2112	12/09/2022	37.5	Landfill	Mixed Waste
9750-09-0031	2151	12/19/2022	7.5	Landfill	Mixed Waste

RECEIVED
DEC 27 2022
BY:

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brennon Dick Digitally signed by Brennon Dick
Date: 2022.12.20 15:39:28 -07'00'

Brennon Dick
Operations Manager

Date

APPENDIX C

PCB WASTE STORAGE AREA INSPECTION RECORDS

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PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-333					
	G-333-18	1/4/2022	☐	☑	
	G-333-18	2/2/2022	☐	☑	
	G-333-18	3/1/2022	☐	☑	
	G-333-18	3/29/2022	☐	☑	
	G-333-18	4/25/2022	☐	☑	
	G-333-18	5/25/2022	☐	☑	
	G-333-18	6/14/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-333-18		7/12/2022	☐	☑	
G-333-18		8/9/2022	☐	☑	
G-333-18		9/6/2022	☐	☑	
G-333-18		10/5/2022	☐	☑	
G-333-18		11/1/2022	☐	☑	
G-333-18		11/29/2022	☐	☑	
G-333-18		12/20/2022	☐	☑	
G-333-37		1/4/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-333-37		2/2/2022	☐	☑	
G-333-37		3/1/2022	☐	☑	
G-333-37		3/29/2022	☐	☑	
G-333-37		4/25/2022	☐	☑	
G-333-37		5/25/2022	☐	☑	
G-333-37		6/14/2022	☐	☑	
G-333-37		7/12/2022	☐	☑	
G-333-37		8/9/2022	☐	☑	PCB storage area closed 8/9/2022

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	PCB/180-333-02	5/25/2022	☐	☑	PCB storage area established 5/9/2022.
	PCB/180-333-02	6/14/2022	☐	☑	
	PCB/180-333-02	7/12/2022	☐	☑	
	PCB/180-333-02	8/9/2022	☐	☑	PCB storage area closed 8/10/2022.
C-337					
	G-337-02	1/4/2022	☐	☑	
	G-337-02	2/2/2022	☐	☑	
	G-337-02	3/1/2022	☐	☑	

C-6

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-02		3/29/2022	☐	☑	
G-337-02		4/25/2022	☐	☑	
G-337-02		5/25/2022	☐	☑	
G-337-02		6/14/2022	☐	☑	
G-337-02		7/12/2022	☐	☑	
G-337-02		8/9/2022	☐	☑	PCB storage area closed 8/10/2022
G-337-03		1/4/2022	☐	☑	
G-337-03		2/2/2022	☐	☑	

Building	
G-337-03	
G-337-03	
G-337-03	
G-337-03	
G-337-03	
G-337-03	PCB storage area closed 8/9/2022
G-337-27	PCB storage area established 3/24/2022. PCB storage area closed 4/7/2022.
G-337-PCB-02	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-PCB-02		2/2/2022	☐	☑	
G-337-PCB-02		3/1/2022	☐	☑	
G-337-PCB-02		3/29/2022	☐	☑	
G-337-PCB-02		4/25/2022	☐	☑	
G-337-PCB-02		5/25/2022	☐	☑	
G-337-PCB-02		6/14/2022	☐	☑	
G-337-PCB-02		7/12/2022	☐	☑	
G-337-PCB-02		8/9/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-337-PCB-02	9/6/2022	☐	☑	
	G-337-PCB-02	10/5/2022	☐	☑	
	G-337-PCB-02	11/1/2022	☑	☑	
	G-337-PCB-02	11/29/2022	☐	☑	
	G-337-PCB-02	12/20/2022	☐	☑	
	S-337-12	2/2/2022	☐	☑	PCB storage area established 1/4/2022.
	S-337-12	3/1/2022	☐	☑	
	S-337-12	3/29/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
S-337-12		4/25/2022	☐	☑	
S-337-12		5/25/2022	☐	☑	
S-337-12		6/14/2022	☐	☑	
S-337-12		7/12/2022	☐	☑	
S-337-12		8/9/2022	☐	☑	
S-337-12		9/6/2022	☐	☑	
S-337-12		10/5/2022	☐	☑	
S-337-12		11/1/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	S-337-12	11/29/2022	☐	☑	
	S-337-12	12/20/2022	☐	☑	
	S-337-13	11/29/2022	☐	☑	PCB storage area established 11/7/2022.
	S-337-13	12/20/2022	☐	☑	
	S-337-14	11/29/2022	☐	☑	PCB storage area established 11/8/2022.
	S-337-14	12/20/2022	☐	☑	
C-720					
	G-720-36	11/1/2022	☐	☑	PCB storage area established 10/27/2022.

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-720-36	11/29/2022	☐	☑	
	G-720-36	12/20/2022	☐	☑	
C-733					
	C-733	1/4/2022	☐	☑	
	C-733	2/1/2022	☐	☑	
	C-733	3/1/2022	☐	☑	
	C-733	3/29/2022	☐	☑	
	C-733	4/25/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		5/19/2022	☐	☑	
C-733		6/14/2022	☐	☑	
C-733		7/12/2022	☐	☑	
C-733		8/9/2022	☐	☑	
C-733		9/6/2022	☐	☑	
C-733		10/4/2022	☐	☑	
C-733		11/1/2022	☐	☑	
C-733		11/29/2022	☐	☑	

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		12/20/2022	☐	☑	
C-746-Q					
C-746-Q		1/4/2022	☐	☑	
C-746-Q		2/1/2022	☐	☑	
C-746-Q		3/1/2022	☐	☑	
C-746-Q		3/29/2022	☐	☑	
C-746-Q		4/25/2022	☐	☑	
C-746-Q		5/19/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-746-Q		6/14/2022	☐	☑	
C-746-Q		7/12/2022	☐	☑	
C-746-Q		8/9/2022	☐	☑	
C-746-Q		9/6/2022	☐	☑	
C-746-Q		10/4/2022	☐	☑	
C-746-Q		11/1/2022	☐	☑	
C-746-Q		11/29/2022	☐	☑	
C-746-Q		12/20/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-752-A					
	C-752-A	1/4/2022	☐	☑	
	C-752-A	2/1/2022	☐	☑	
	C-752-A	3/1/2022	☐	☑	
	C-752-A	3/29/2022	☐	☑	
	C-752-A	4/25/2022	☐	☑	
	C-752-A	5/19/2022	☐	☑	
	C-752-A	6/14/2022	☐	☑	

C-17

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-752-A		7/12/2022	☐	☑	
C-752-A		8/9/2022	☐	☑	
C-752-A		9/6/2022	☐	☑	
C-752-A		10/4/2022	☐	☑	
C-752-A		11/1/2022	☐	☑	
C-752-A		11/29/2022	☐	☑	
C-752-A		12/20/2022	☐	☑	

C-753-A

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-753-A		1/4/2022	☐	☑	
C-753-A		2/1/2022	☐	☑	
C-753-A		3/1/2022	☐	☑	
C-753-A		3/29/2022	☐	☑	
C-753-A		4/25/2022	☐	☑	
C-753-A		5/19/2022	☐	☑	
C-753-A		6/14/2022	☐	☑	
C-753-A		7/12/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	C-753-A	8/9/2022	☐	☑	
	C-753-A	9/6/2022	☐	☑	
	C-753-A	10/4/2022	☐	☑	
	C-753-A	11/1/2022	☐	☑	
	C-753-A	11/29/2022	☐	☑	
	C-753-A	12/20/2022	☐	☑	
C-757					
	G-757-03	1/4/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-757-03		2/2/2022	☐	☑	
G-757-03		3/1/2022	☐	☑	
G-757-03		3/29/2022	☐	☑	
G-757-03		4/25/2022	☐	☑	
G-757-03		5/19/2022	☐	☑	
G-757-03		6/14/2022	☐	☑	
G-757-03		7/12/2022	☐	☑	
G-757-03		8/9/2022	☐	☑	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-757-03		9/6/2022	☐	☑	
G-757-03		10/5/2022	☐	☑	
G-757-03		11/1/2022	☐	☑	
G-757-03		11/29/2022	☐	☑	
G-757-03		12/20/2022	☐	☑	

APPENDIX D

PCB WASTE INVENTORY TABLES

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TABLES

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Table D.1. Corrections and Adjustments to the December 31, 2021, Inventory

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
0	121255	121255-05[a]	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING	10/19/2021	L	15	C-337	RCRA/TSCA Mixed (RTM)	Upon review of the container logsheet the PCB DTS was corrected to the date that the first item was placed in the container. The estimated weight was corrected to actual weight when container was placed into permitted storage.
0	122193	122193-08[a]	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/15/2021	S	131	C-333	TSCA Mixed (TM)	Upon review of the container logsheet the PCB DTS was corrected to the date that the first item was placed in the container. The estimated weight was corrected to actual weight when container was placed into permitted storage.
0	122252	122252-08	PCB Container	VENTILATION DUCT OIL AND WATER	10/25/2021	L	0	C-337	TM	Upon review of the container logsheet the PCB DTS was corrected to the date that the first item was placed in the container.
0	122396	122396-01[a]	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS/ETC	5/20/2021	S	6	Various	TM	The estimated weight was corrected to actual weight when container was placed into permitted storage.
0	122431	122431-02[a]	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED INTO THIS CONTAINER (122431-02) (C-631-3 WASTE ADDED TO THIS CONTAINER PBI - 0101-A.1, NENDST)	6/1/2021	S	333	C-333	TM	The estimated weight was corrected to actual weight when container was placed into permitted storage.
0	122473	122473-01[a]	PCB Article Container	MISC PART AND FROM TWO PCB TRANSFORMER IN C-337 - RECEIVED MATERIAL FROM 107839-01.	6/27/2004	S	718	C-337	TM	The estimated weight was corrected to actual weight when container was placed into permitted storage.
TOTAL CORRECTIONS AND ADJUSTMENTS TO THE DECEMBER 31, 2021, INVENTORY[*]:							**1203**			

*Due to rounding, the weight totals may vary.

Table D.2. PCB Waste Generated in 2022

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
122193	122193-09	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	3/24/2022	824	Solid (S)	C-752-A	C-410	TSCA Mixed (TM)
122193	122193-10[a]	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	6/24/2022	589	S	C-333	C-410	TM
122235	122235-05	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	5/18/2022	454	S	C-333	C-746-B	TM
122431	122431-03[a]	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED INTO THIS CONTAINER (122431-02) (C-631-3 WASTE ADDED TO THIS CONTAINER PBI - 0101-A.1, NENDST) - REPACKED INTO 122431-02	2/15/2022	9	S	C-333-RPK	C-333	TM
122431	122431-04	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE	3/23/2022	4,119	S	C-752-A	C-333	TM
122540	122540-01	PCB Article Container	PCB LIGHT BALLAST (FY22PBI 05/20 0105-A.4 AND FY22PBI 05/01 0105-A.7)	1/31/2022	81	S	C-752-A	C-333-A	TM
122540	122540-02[a]	PCB Article Container	PCB LIGHT BALLAST - 122540-02 REPACKED INTO 122540-01	4/12/2022	2	S	C-333-ARPK	C-333-A	TM
122621	122621-01[a]	PCB Container	LUBE OIL/PCB RINSATE COLLECTED FROM SITE GLASSES FROM TRANSFORMER DRAINING	8/23/2022	27	Liquid (L)	C-337	C-337	RCRA/TSCA Mixed (RTM)
122622	122622-01	PCB Container	VENTILATION DUCT OIL AND WATER	1/12/2022	204	L	C-752-A	Proc Bldgs	TM
122622	122622-02	PCB Container	VENTILATION DUCT OIL AND WATER	2/21/2022	209	L	C-752-A	Proc Bldgs	TM
122622	122622-03[a]	PCB Container	VENTILATION DUCT OIL AND WATER	11/17/2022	27	L	C-337	Proc Bldgs	TM
122623	122623-01	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/23/2022	229	S	C-752-A	Proc Bldgs	TM
122623	122623-02	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/23/2022	58	S	C-752-A	Proc Bldgs	TM
122623	122623-03	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/24/2022	60	S	C-752-A	Proc Bldgs	TM
122623	122623-04	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/25/2022	44	S	C-752-A	Proc Bldgs	TM
122623	122623-05	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/25/2022	65	S	C-752-A	Proc Bldgs	TM
122623	122623-06	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	3/10/2022	59	S	C-752-A	Proc Bldgs	TM
122623	122623-07	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	6/9/2022	61	S	C-752-A	Proc Bldgs	TM
122623	122623-08	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	8/2/2022	81	S	C-752-A	Proc Bldgs	TM
122623	122623-09	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	9/27/2022	85	S	C-752-A	Proc Bldgs	TM
122623	122623-10	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	10/7/2022	98	S	C-752-A	Proc Bldgs	TM
122623	122623-11[a]	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	11/17/2022	27	S	C-337	Proc Bldgs	TM
122645	122645-01	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/2/2022	193	L	C-752-A	C-315	RTM

Table D.2. PCB Waste Generated in 2022 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
122645	122645-02	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/2/2022	181	L	C-752-A	C-315	RTM
122645	122645-03	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/2/2022	187	L	C-752-A	C-315	RTM
122645	122645-04	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	187	L	C-752-A	C-315	RTM
122645	122645-05	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	192	L	C-752-A	C-315	RTM
122645	122645-06	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	191	L	C-752-A	C-315	RTM
122645	122645-07	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	190	L	C-752-A	C-315	RTM
122645	122645-08	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	191	L	C-752-A	C-315	RTM
122645	122645-09	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	191	L	C-752-A	C-315	RTM
122645	122645-10	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	192	L	C-752-A	C-315	RTM
122645	122645-11	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	200	L	C-752-A	C-315	RTM
122645	122645-12	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	188	L	C-752-A	C-315	RTM
122645	122645-13	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	74	L	C-752-A	C-315	RTM
122667	122667-01	PCB Article Container	POTHEAD WITH ELECTRICAL CABLE. POTHEAD CONTAINS PETROLATUM. CABLE IS PAPER AND LEAD INSULATED. PAPER IS IMPREGNATED WITH OIL	3/7/2022	571	S	C-752-A	C-531	RTM
122668	122668-01	PCB Article Container	PCB LIGHT BALLASTS/CAPACITORS/TRANSFORMERS/ETC.	3/10/2022	83	S	C-752-A	Various	TM
122717	122717-01	PCB Container	PCB/HAZ VACUUM AND VACUUM DEBRIS FROM CLEAN UP OF NON-GASKET SPILL 774	5/17/2022	39	S	C-752-A	C-337	RTM
130060	130060-01	PCB Container	GLASS APARATUS CONTAINING ELEMENTAL MERCURY/AMALGUM FROM LAB	8/2/2022	17	S	C-752-A	C-710	RTM
130083	130083-01	PCB Article Container	CAPACITORS FROM CHARGERS IN BATTERY ROOMS AND ASSOCIATED BCS	9/7/2022	5	S	C-752-A	Proc Bldgs	TM
130099	130099-01[a]	PCB Container	PCB LIQUIDS WITH CADMIUM, CHROMIUM, AND LEAD	12/28/2022	27	L	C-337	C-333	RTM
130106	130106-01[a]	PCB Article Container	PCB LIGHT BALLASTS	10/27/2022	28	S	C-720	Various	TM
TOTAL PCB WASTE GENERATED IN CY 2022[b]:					**10,535**				

[a] Indicates a collection containers as of December 31, 2022. Weight is estimated.

[b] Due to rounding, the weight totals may vary.

Table D.3. Adjustments to the 2022 Inventory

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
0	107839	107839-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	SOLID	1,297	C-337	TSCA Mixed (TM)	The weight was corrected to actual weight when container item was weighed after being prepared for shipment.
-1	122431	122431-03	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED INTO THIS CONTAINER (122431-02) (C-631-3 WASTE ADDED TO THIS CONTAINER PBI - 0101-A.1, NENDST) - REPACKED INTO 122431-02	2/15/2022	SOLID	-9	C-333	TM	The container was repacked into container 122431-02.
-1	122540	122540-02	PCB Article Container	PCB LIGHT BALLAST - 122540-02 REPACKED INTO 122540-01	4/12/2022	SOLID	-2	C-333-A	TM	The container was repacked into container 122540-01.
TOTAL ADJUSTMENTS TO CY 2022 INVENTORY*:							**1,286**			

*Due to rounding, the weight totals may vary.

Table D.4. PCB Waste Shipped for Disposal in 2022

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
121255	121255-04	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING	9/6/2021	C-752-A	235	Liquid (L)	C-337	RCRA/TSCA Mixed (RTM)	1/25/2022	Energy*Solutions*, Clive, UT	019695351JJK
122253	122253-04	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	8/2/2021	C-752-A	59	Solid (S)	Proc Bldgs	TSCA Mixed (TM)	1/25/2022	Energy*Solutions*, Clive, UT	019695351JJK
122253	122253-05	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	10/19/2021	C-752-A	46	S	Proc Bldgs	TM	1/25/2022	Energy*Solutions*, Clive, UT	019695351JJK
122235	122235-04	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	8/26/2021	C-752-A	689	S	C-746-B	TM	1/25/2022	Energy*Solutions*, Clive, UT	019695353JJK
122430	122430-01	PCB Article Container	CAPACITORS THAT CONTAIN PCB OIL	9/1/2021	C-752-A	84	S	C-710	TM	3/17/2022	Energy*Solutions*, Clive, UT	019695411JJK
122430	122430-02	PCB Article Container	CAPACITORS THAT CONTAIN PCB OIL	9/1/2021	C-752-A	61	S	C-710	TM	3/17/2022	Energy*Solutions*, Clive, UT	019695411JJK
122253	122253-06	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	11/2/2021	C-752-A	62	S	Proc Bldgs	TM	3/17/2022	Energy*Solutions*, Clive, UT	019695416JJK
122253	122253-07	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	12/20/2021	C-752-A	71	S	Proc Bldgs	TM	3/17/2022	Energy*Solutions*, Clive, UT	019695416JJK
122623	122623-01	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/23/2022	C-752-A	229	S	Proc Bldgs	TM	3/17/2022	Energy*Solutions*, Clive, UT	019695416JJK
122623	122623-02	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/23/2022	C-752-A	58	S	Proc Bldgs	TM	3/17/2022	Energy*Solutions*, Clive, UT	019695416JJK
122623	122623-04	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/25/2022	C-752-A	44	S	Proc Bldgs	TM	3/17/2022	Energy*Solutions*, Clive, UT	019695416JJK
122494	122494-01	PCB Article Container	FLUORESCENT LIGHT FIXTURES, LIGHT BALLASTS AND WIRING, CONTAINER PCB (50-499 PPM) AND ASBESTOS CONTAINING MATERIAL (ACM)	8/19/2021	C-752-A	640	S	C-725	TM	3/17/2022	Energy*Solutions*, Clive, UT	019695420JJK
122252	122252-08	PCB Container	VENTILATION DUCT OIL AND WATER	10/25/2021	C-752-A	231	L	C-337	TM	3/22/2022	Energy*Solutions*, Clive, UT	019695436JJK
106744	106744-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	9,964	Solid (S)	C-337	TSCA Mixed (TM)	4/7/2022	Waste Control Specialist, Andrews, TX	019695368JJK
106744	106744-04	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	608	S	C-337	TM	4/7/2022	Waste Control Specialist, Andrews, TX	019695368JJK
106744	106744-05	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	600	S	C-337	TM	4/7/2022	Waste Control Specialist, Andrews, TX	019695368JJK
122431	122431-02	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED INTO THIS CONTAINER (122431-02) (C-631-3 WASTE ADDED TO THIS CONTAINER PBI - 0101 A.1, NENDST)	6/1/2021	C-752-A	4,980	S	C-333	TM	4/12/2022	Energy*Solutions*, Clive, UT	019695446JJK
122396	122396-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS/ETC	5/20/2021	C-752-A	42	S	Various	TM	4/12/2022	Energy*Solutions*, Clive, UT	019695450JJK
122623	122623-03	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/24/2022	C-752-A	60	S	Proc Bldgs	TM	4/12/2022	Energy*Solutions*, Clive, UT	019695453JJK
122193	122193-08	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/15/2021	C-752-A	732	S	C-410	TM	4/12/2022	Energy*Solutions*, Clive, UT	019695455JJK

Table D.4. PCB Waste Shipped for Disposal in 2022 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
107839	107839-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	C-337	16,647	S	C-337	TM	5/5/2022	Waste Control Specialist, Andrews, TX	019695369JJK
107839	107839-02	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	C-337	308	S	C-337	TM	5/5/2022	Waste Control Specialist, Andrews, TX	019695369JJK
122645	122645-01	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/2/2022	C-752-A	193	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-02	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/2/2022	C-752-A	181	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-03	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/2/2022	C-752-A	187	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-04	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	187	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-05	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	192	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-06	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	191	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-07	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	190	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-08	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	191	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-09	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	191	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-10	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	192	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-11	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	200	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-12	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	188	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122645	122645-13	PCB Container	USED PCB CONTAMINATED OIL DRAINED FROM TRANSFORMERS	3/3/2022	C-752-A	74	L	C-315	RTM	6/10/2022	Energy*Solutions,* Clive, UT	023682004JJK
122473	122473-01	PCB Article Container	MISC PART AND FROM TWO PCB TRANSFORMER IN C-337 - RECEIVED MATERIAL FROM 107839-01.	6/27/2004	C-752-A	1,168	S	C-337	TM	7/26/2022	Energy*Solutions,* Clive, UT	023682090JJK
122431	122431-04	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE	3/23/2022	C-752-A	4,119	S	C-333	TM	8/4/2022	Energy*Solutions,* Clive, UT	023682097JJK
130060	130060-01	PCB Container	GLASS APARATUS CONTAINING ELEMENTAL MERCURY/AMALGUM FROM LAB	8/2/2022	C-752-A	17	S	C-710	RTM	8/16/2022	Perma-Fix of Florida Gainesville, FL	023531984JJK
122193	122193-09	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	3/24/2022	C-752-A	824	S	C-410	TM	8/23/2022	Energy*Solutions,* Clive, UT	023682104JJK
122717	122717-01	PCB Article Container	PCB/HAZ VACUUM AND VACUUM DEBRIS FROM CLEAN UP OF NON-GASKET SPILL 774	5/17/2022	C-752-A	39	S	C-337	RTM	8/29/2022	Energy*Solutions,* Clive, UT	023682106JJK
122622	122622-01	PCB Container	VENTILATION DUCT OIL AND WATER	1/12/2022	C-752-A	204	L	Proc Bldgs	TM	8/29/2022	Energy*Solutions,* Clive, UT	023682110JJK
122540	122540-01	PCB Article Container	PCB LIGHT BALLAST (FY22PBI 05/20 0105-A.4 AND FY22PBI 05/01 0105-A.7)	1/31/2022	C-752-A	81	S	C-333-A	TM	8/29/2022	Energy*Solutions,* Clive, UT	023682111JJK
121255	121255-05	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING	10/19/2021	C-752-A	225	L	C-337	RTM	8/29/2022	Energy*Solutions,* Clive, UT	023682112JJK

Table D.4. PCB Waste Shipped for Disposal in 2022 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
122623	122623-05	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/25/2022	C-752-A	65	S	Proc Bldgs	TM	8/29/2022	Energy*Solutions,* Clive, UT	023682112JJK
122623	122623-06	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	3/10/2022	C-752-A	59	S	Proc Bldgs	TM	8/29/2022	Energy*Solutions,* Clive, UT	023682112JJK
122623	122623-07	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	6/9/2022	C-752-A	61	S	Proc Bldgs	TM	8/29/2022	Energy*Solutions,* Clive, UT	023682112JJK
TOTAL PCB WASTE SHIPPED FOR DISPOSAL IN CY 2022*:						**45,665**						

*Due to rounding, the weight totals may vary.

Table D.5. PCB Waste Inventory as of December 31, 2022

RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kgs)	Current Facility	Source	Waste Category
122193	122193-10[a]	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	6/24/2022	Solid (S)	589	C-333	C-410	TSCA Mixed (TM)
122235	122235-05	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	5/18/2022	S	454	C-333	C-746-B	TM
122621	122621-01[a]	PCB Container	LUBE OIL/PCB RINSATE COLLECTED FROM SITE GLASSES FROM TRANSFORMER DRAINING	8/23/2022	Liquid (L)	27	C-337	C-337	RCRA/TSCA Mixed (RTM)
122622	122622-02	PCB Container	VENTILATION DUCT OIL AND WATER	2/21/2022	L	209	C-752-A	Proc Bldgs	TM
122622	122622-03[a]	PCB Container	VENTILATION DUCT OIL AND WATER	11/17/2022	L	27	C-337	Proc Bldgs	TM
122623	122623-08	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	8/2/2022	S	81	C-752-A	Proc Bldgs	TM
122623	122623-09	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	9/27/2022	S	85	C-752-A	Proc Bldgs	TM
122623	122623-10	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	10/7/2022	S	98	C-752-A	Proc Bldgs	TM
122623	122623-11[a]	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	11/17/2022	S	27	C-337	Proc Bldgs	TM
122667	122667-01	PCB Article Container	POTHEAD WITH ELECTRICAL CABLE. POTHEAD CONTAINS PETROLATUM. CABLE IS PAPER AND LEAD INSULATED. PAPER IS IMPREGNATED WITH OIL	3/7/2022	S	571	C-752-A	C-531	RTM
122668	122668-01	PCB Article Container	PCB LIGHT BALLASTS/CAPACITORS/TRANSFORMERS/ETC.	3/10/2022	S	83	C-752-A	Various	TM
130083	130083-01	PCB Article Container	CAPACITORS FROM CHARGERS IN BATTERY ROOMS AND ASSOCIATED BCS	9/7/2022	S	5	C-752-A	Proc Bldgs	TM
130099	130099-01[a]	PCB Container	PCB LIQUIDS WITH CADMIUM, CHROMIUM, AND LEAD	12/28/2022	L	27	C-337	C-333	RTM
130106	130106-01[a]	PCB Article Container	PCB LIGHT BALLASTS	10/27/2022	S	28	C-720	Various	TM
			TOTAL PCB WASTE INVENTORY AS OF DECEMBER 31, 2022[b]:			**2,310**			

[a] Indicates a collection containers as of December 31, 2022. Weight is estimated.

[b] Due to rounding, the weight totals may vary.