

Department of Energy

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June 28, 2024

Ms. Myrna Redfield, Program Manager Four Rivers Nuclear Partnership, LLC 5511 Hobbs Road Kevil, Kentucky 42053 PPPO-02-10027989-24

Dear Ms. Redfield:

DE-EM0004895: CONCURRENCE ON DEVLIVERABLE NO. 68, FINAL ANNUAL REPORT OF POLYCHLORINATED BIPHENYLS, FOR JANUARY 1, 2023 – DECEMBER 31, 2023, FRNP-RPT-0347

Reference: Letter from M. Redfield to J. Stokes, "Four Rivers Nuclear Partnership, LLC— Deliverable No. 68—FINAL Annual Report of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2023– December 31, 2023, FRNP-RPT-0347," (FRNP-24-8443), dated June 13, 2024

The U.S. Department of Energy reviewed the Four Rivers Nuclear Partnership, LLC, Deliverable No. 68, final *Annual Document of Polychlorinated Biphenyls for January 1, 2023 – December 31, 2023*, FRNP-RPT-0347, 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: 2024.06.28 09:34:05 -05'00'

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

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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.

FRNP-RPT-0347

Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2023–December 31, 2023



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FRNP-RPT-0347

Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2023–December 31, 2023

Date Issued—June 2024

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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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

EXECUTIVE SUMMARY

This Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2023–December 31, 2023, (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 2023 are summarized below:

PCB transformers in service as of 12/31/2023:	0
Total PCBs in kg in PCB transformers as of 12/31/2023:	0
PCB large capacitors in service as of 12/31/2023:	0
PCB waste in kg ¹ generated in CY 2023:	29,174
PCB waste in kg ² shipped off-site for treatment/disposal in CY 2023:	6,906
PCB waste in kg ³ remaining in storage for disposal as of 12/31/2023:	19,117

Throughout CY 2023, the Paducah Site generated 17 manifested shipments of PCB wastes to off-site treatment/disposal facilities. Fifteen CDs were received in CY 2023 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 2023 Annual Compliance Agreement Report January 1 through December 31, 2023, for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, FRNP-RPT-0352, dated May 2024, in accordance with the *Modification to the February 20, 1992, Compliance Agreement Between the*

¹ The weights in kg are taken from the Waste Tracking System, 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 Waste Tracking System weights shown in Table D.4.

³ See note 1.

United 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), *PCBs and PCB Items in service or projected for disposal*. This section of the *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2023–December 31, 2023*, (Annual Document) contains the information from the signed manifests of PCB wastes shipped off-site for disposal during CY 2023, which are included in Appendix A.

Seventeen manifests with 30 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.

Table 1.1 summarizes the 2023 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.

UHWM Number	Date Shipped	Shipment Destination	Number of PCB Containers	Weight from UHWM (kg) ^{a,b}
		EnergySolutions,		
023682199JJK	1/12/2023	Clive, UT	2	114
		EnergySolutions,		
023682201JJK	1/12/2023	Clive, UT	1	183
		EnergySolutions,		
023682222JJK	2/7/2023	Clive, UT	1	1
		EnergySolutions,		
023682223JJK	2/7/2023	Clive, UT	1	211
		EnergySolutions,		60
023682259JJK	2/23/2023	Clive, UT	1	69
		EnergySolutions,		
023682277JJK	3/23/2023	Clive, UT	1	71
		EnergySolutions,		
023682312JJK	4/27/2023	Clive, UT	3	483
		EnergySolutions,		
023682332JJK	6/20/2023	Clive, UT	1	3
		EnergySolutions,		
023682338JJK	6/20/2023	Clive, UT	1	25
		EnergySolutions,		
023682405JJK	8/17/2023	Clive, UT	1	47
		EnergySolutions,		
023682407JJK	8/17/2023	Clive, UT	1	57
	0/15/0000	EnergySolutions,		(0
023682410JJK	8/17/2023	Clive, UT	1	69
000 (00 410 102	0/17/2022	EnergySolutions,	1	101
023682418JJK	8/17/2023	Clive, UT	1	101
000(00400100	0/10/2022	Energy <i>Solutions</i> ,	0	5024
023682433JJK	9/18/2023	Clive, UT	9	5024
000(004(010)	11/2/2022	Energy <i>Solutions</i> ,	2	02
023682462JJK	11/2/2023	Clive, UT	2	83
0006004641112	11/2/2022	Energy <i>Solutions</i> ,	1	190
023682464JJK	11/2/2023	Clive, UT	1	180
00000000000	11/2/2022	Energy <i>Solutions</i> ,	2	107
023682469JJK	11/2/2023	Clive, UT	2	185
	Total UHWM: 1	17	30	6,906

Table 1.1 PCB Waste Manifests Summary

^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). Fifteen CDs were received in 2023 from the following facilities:

- Energy Solutions disposal facility in Clive, Utah; and
- Perma-Fix of Florida, Inc., treatment facility in Gainesville, Florida.

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 2023 was for waste shipped in 2023, the manifests are shown in Table 1.1 and Appendix A.

UHWM	Earliest Date Removed from Service	Date Shipped	Disposer	Containers Disposed of	Weight from UHWM (kg) ^a	Date of Disposal	Date CD Received
		1	Perma-Fix of Florida				
023531984JJK	8/2/2022	8/16/2022	Gainesville, FL	1	1	8/16/2023	9/11/2023
			EnergySolutions,				
023682199JJK	8/2/2022	1/12/2023	Clive, UT	1	56	3/31/2023	4/26/2023
			EnergySolutions,				
023682199JJK	9/27/2022	1/12/2023	Clive, UT	1	58	3/31/2023	4/26/2023
			EnergySolutions,				
023682201JJK	2/21/2022	1/12/2023	Clive, UT	1	183	11/13/2023	12/14/2023
000000000000000000000000000000000000000	0/7/0000	0.17.100000	EnergySolutions,	1	1	2/16/2022	4/4/2022
023682222JJK	9/7/2022	2/7/2023	Clive, UT	1	1	3/16/2023	4/4/2023
000000000000000000000000000000000000000	2/7/2022	2/7/2022	EnergySolutions,	1	211	2/27/2022	4/4/2022
023682223JJK	3/7/2022	2/7/2023	Clive, UT	1	211	3/27/2023	4/4/2023
0226922501112	2/10/2022	2/23/2023	Energy <i>Solutions,</i> Clive, UT	1	69	3/16/2023	4/4/2023
023682259JJK	3/10/2022	2/23/2023	EnergySolutions,	1	09	3/10/2023	4/4/2023
023682277JJK	10/7/2022	3/23/2023	Clive, UT	1	71	5/22/2023	6/26/2023
0230022773JK	10///2022	3/23/2023	EnergySolutions,	1	/1	5/22/2023	0/20/2023
023682312JJK	5/18/2022	4/27/2023	Clive, UT	1	96	5/22/2023	6/26/2023
025002512551	5/10/2022	4/2//2025	EnergySolutions,	1	<i>)</i> 0	512212025	0/20/2025
023682312JJK	6/24/2022	4/27/2023	Clive, UT	1	372	5/22/2023	6/26/2023
			EnergySolutions,				
023682312JJK	2/20/2023	4/27/2023	Clive, UT	1	15	5/22/2023	6/26/2023
			EnergySolutions,				
023682332JJK	2/16/2023	6/20/2023	Clive, UT	1	3	7/31/2023	8/2/2023
			EnergySolutions,				
023682338JJK	2/20/2023	6/20/2023	Clive, UT	1	25	6/29/2023	7/24/2023
			EnergySolutions,				
023682405JJK	11/17/2022	8/17/2023	Clive, UT	1	47	9/7/2023	9/20/2023
			EnergySolutions,				
023682407JJK	2/8/2023	8/17/2023	Clive, UT	1	57	9/25/2023	10/3/2023
000 (00 110 117	10/05/0000	0.11.5.10.000	EnergySolutions,		101	0/05/0000	10/2/2020
023682418JJK	10/27/2022	8/17/2023	Clive, UT	1	101	9/25/2023	10/3/2023
000(004001112	7/14/2022	0/19/2022	EnergySolutions,	1	222	0/29/2022	10/2/2022
023682433JJK	7/14/2023	9/18/2023	Clive, UT	1	233	9/28/2023	10/3/2023
023682433JJK	7/21/2023	9/18/2023	Energy <i>Solutions,</i> Clive, UT	1	233	9/28/2023	10/3/2023
023062433JJK	//21/2023	9/10/2023	EnergySolutions,	1	233	9/20/2023	10/5/2025
023682433JJK	7/21/2023	9/18/2023	Clive, UT	1	64	9/28/2023	10/3/2023
023002433JJK	//21/2023	9/10/2023	Energy <i>Solutions</i> ,	1	04	312012023	10/3/2023
023682433JJK	7/22/2023	9/18/2023	Clive, UT	1	176	9/28/2023	10/3/2023

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
			EnergySolutions,				
023682433JJK	7/22/2023	9/18/2023	Clive, UT	1	666	9/28/2023	10/3/2023
023682433JJK	7/22/2023	9/18/2023	Energy <i>Solutions,</i> Clive, UT	1	245	9/28/2023	10/3/2023
023682433JJK	8/4/2023	9/18/2023	Energy <i>Solutions,</i> Clive, UT	1	529	9/28/2023	10/3/2023
023682433JJK	8/8/2023	9/18/2023	Energy <i>Solutions,</i> Clive, UT	1	2,458	9/28/2023	10/3/2023
023682433JJK	8/11/2023	9/18/2023	Energy <i>Solutions,</i> Clive, UT	1	420	9/28/2023	10/3/2023
023682462JJK	7/21/2023	11/2/2023	Energy <i>Solutions,</i> Clive, UT	1	49	12/14/2023	12/28/2023
023682462JJK	7/21/2023	11/2/2023	Energy <i>Solutions,</i> Clive, UT	1	34	12/14/2023	12/28/2023
			Totals ^b	27	6,473		

Table 2.1. PCB Waste Certificates of Disposal Summary (Continued)

^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.

3. PCB WASTE STORAGE AREA INSPECTION RECORDS

Records of inspections performed in accordance with 40 *CFR* § 761.65(c)(5), *Storage and Disposal*, 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 2023. 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.

Building	Waste Area Designator
C-300	30DAA-PCB-300-01 ^a
C-300	30DAA-PCB-300-02 ^b
C-333	G-331-18°
C-333	S-333-27 ^{d,e}
C-333	S-333-28 ^{d,f}
C-333	S-333-29 ^{d,g}
C-337	G-337-PCB-02°
C-337	S-337-12 ^d
C-337	S-337-13 ^{d,h}
C-337	S-337-14 ^{d,i}
C-733	C-733
C-746-Q	C-746-Q
C-752-A	C-752-A
С-753-А	C-753-A
C-757	G-757-03°

Table 3.1. PCB Waste Storage Areas at the Paducah Site

^a 30DAA-PCB-300-01 was established on September 14, 2023, and closed on October 21, 2023.

^b 30DAA-PCB-300-02 was established on September 27, 2023, and closed on October 17, 2023.

^cWaste 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. ^dWaste 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 lowlevel (radioactive) waste.

^eS-333-27 was established on July 31, 2023.

^fS-333-28 was established on August 28, 2023.

^gS-333-29 was established on August 28, 2023.

^h S-337-13 was closed on August 29, 2023.

ⁱ S-337-14 was closed on August 29, 2023.

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 2023, there are no records.

5. PCB ELECTRICAL EQUIPMENT IN SERVICE

No PCB [\geq 500 parts per million (ppm)] transformers or PCB (\geq 500 ppm) large capacitors were in service at the Paducah Site as of December 31, 2023, which is summarized in Table 5.1. In addition, no PCB transformers or PCB large capacitors were removed from service in CY 2023. Sixty-seven PCB transformers were removed from service, drained, and flushed during 2015. They were stored in place in C-337 during CY 2023. Residual flushate was removed over time as it drained through and collected in the units.

There are no CY 2023 PCB transformer maintenance records because there was no maintenance performed on these transformers, and the transformers currently are not in service.

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

Table 5.1. PCB Electrical Equipment in Serviceas of December 31, 2023

*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.

6. PCB WASTE ACTIVITY

PCB waste activities performed by the facility during CY 2023 are annual records required by 40 *CFR* § 761.180 (a)(2)(iii). The PCB Waste Activity Summary for CY 2023 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, 2022, has been adjusted from the "PCB Waste Inventory as of December 31, 2022," reported as Table D.5 of the *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2022—December 31, 2022,* FRNP-RPT-0296. The net changes to the January 1, 2023, beginning inventory include adjustments because of in-process collection containers at the time of the 2022 inventory, information received after the 2022 report submittal, and/or weight corrections. The detailed listing of the December 31, 2022, corrections and adjustments is provided in Appendix D, Table D.1.

The detailed listing of PCB waste generated during CY 2023 is provided in Appendix D, Table D.2.

The detailed listing of the adjustments to the CY 2023 PCB inventory is provided in Appendix D, Table D.3.

The detailed listing of the PCB waste shipped in CY 2023 is provided in Appendix D, Table D.4.

The detailed listing of the PCB waste inventory as of December 31, 2023, is provided in Appendix D, Table D.5.

There was no PCB waste received from off-site facilities in CY 2023.

Table 6.1. PCB Waste Activity Summary for CY 2023

12/31/2022 Inventory		Corrections and Adjustments to Beginning Inventory ^a		1/1/2023 Inventory		Generated		Corrections to 2023 Inventory ^b		Shipped for Disposal		12/31/2023 Inventory	
pc	kg	рс	kg	pc	kg	pc	kg	рс	kg	pc	kg	pc	kg
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	687	1	162	5	849	34	96	-30	18,094	-5	-778	4	18,261
1	5	0	0	1	5	0	0	0	0	-1	-5	0	0
2	111	1	162	3	273	2	96	-1	-76	-3	-202	1	91
1	571	0	0	1	571	32	g	-29	18,170	-1	-571	3	18,170
10	1,624	1	614	11	2,238	31	8,739	-9	2,244	-25	-12,365	8	856
4	290	1	429	5	719	2	190	0	0	-5	-719	2	190
6	1,334	0	185	6	1,519	29	8,549	-9	2,244	-20	-11,646	6	666
0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	2 311	2	776	16	3.097	65	8 935	30	20.338	30	13 1/2	12	19,117
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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 2022 inventory, information received after the 2022 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 2023 Inventory column includes adjustments due to repackaging of wastes or because of in-process collection containers during time of 2023 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.

^dPortable (mobile) tanks and totes are counted as Containers.

^ePCB Remediation Waste Solids disposed at the onsite C-746-U Landfill.

^fDue to rounding, the weight totals may vary.

^gThe containers were created as collection containers and repackaged before being individually weighed. The total weight of the items was captured in the final conatainer listed on Table D.

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 2023 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
7340-08-0027	1/12/2023	Energy <i>Solutions,</i> Clive, UT	023682199JJK	(2) DRUMS OF TSCA/LLW	1/16/2023		TSCA Mixed (TM)	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 1/16/2023
9750-04-0014	1/12/2023	Energy <i>Solutions,</i> Clive, UT	023682201JJK	(1) DRUM OF TSCA/LLW WASTE	1/16/2023		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 1/16/2023
9750-01-0098	2/7/2023	Energy <i>Solutions,</i> Clive, UT	023682223JJK	(1) ST-90 OF TSCA/MLLW	2/13/2023		RCRA/TSCA Mixed (RTM)	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 2/13/2023
9750-90-0003	2/7/2023	Energy <i>Solutions,</i> Clive, UT	023682222JJK	(1) DRUM OF TSCA WASTE	2/13/2023		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 2/13/2023
9750-90-0004	2/23/2023	Energy <i>Solutions,</i> Clive, UT	023682259JJK	(1) DRUM OF TSCA/LLW	2/28/2023		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 2/28/2023
7340-08-0028	3/23/2023	Energy <i>Solutions,</i> Clive, UT	023682277JJK	(1) DRUM OF TSCA/LLW	3/27/2023		ТМ	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 3/27/2023
7340-08-0029	4/27/2023	Energy <i>Solutions,</i> Clive, UT	023682312JJK	(2) ST-90S AND (1) DRUM OF TSCA/LLW	5/1/2023		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 5/1/2023
9750-01-0101	6/20/2023	Energy <i>Solutions,</i> Clive, UT	023682338JJK	(2) DRUMS OF TSCA/ MLLW, (3) DRUMS OF RCRA WASTE, (1) DRUM OF LLW/TSCA/ACM	6/23/2023		RTM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 6/23/2023
9750-90-0005	6/20/2023	Energy <i>Solutions,</i> Clive, UT	023682332JJK	(1) DRUM OF TSCA WASTE	7/3/2023		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 7/3/2023
7340-08-0031	8/17/2023	Energy <i>Solutions,</i> Clive, UT	023682405JJK	(1) DRUM OF TSCA/LLW	8/22/2023		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 8/22/2023
9750-01-0102	8/17/2023	Energy <i>Solutions,</i> Clive, UT	023682407JJK	(1) DRUM OF TSCA/LLW AND (3) DRUMS OF MLLW/PCB BULK PRODUCT	8/22/2023		RTM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 8/22/2023
9750-09-0036	8/17/2023	Energy <i>Solutions,</i> Clive, UT	023682410JJK	(1) DRUM OF RCRA WASTE (UNPUNCTURED AEROSAL CANS) AND (1) DRUM OF TSCA/MLLW	8/22/2023		RTM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 8/22/2023
9750-90-0006	8/17/2023	Energy <i>Solutions,</i> Clive, UT	023682418JJK	(1) DRUM TSCA/LLW	8/22/2023		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 8/22/2023
7340-08-0032	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK	(7) ST-90s, (1) SEALAND, AND (1) B-12 BOX OF TSCA/LLW	9/21/2023		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 9/21/2023
9750-01-0103	11/2/2023	Energy <i>Solutions,</i> Clive, UT	023682462JJK	(3) DRUMS OF MLLW AND (1) DRUM OF RCRA WASTE	11/7/2023		RT	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 11/7/2023
9750-04-0015	11/2/2023	Energy <i>Solutions,</i> Clive, UT	023682469JJK	(2) DRUMS OF TSCA/LLW	11/7/2023		TM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 11/7/2023
9750-09-0037	11/2/2023	Energy <i>Solutions,</i> Clive, UT	023682464JJK	(1) DRUM OF RCRA/TSCA WASTE AND (2) DRUMS OF RCRA WASTE	11/7/2023		RTM	RECEIVED EMAIL CONFIRMATION FROM SCOTT GLEASON ON 11/7/2023

APPENDIX A

PCB WASTE MANIFESTS

ease print or type.								Approved, OM	B No. 2050-
UNIFORM HAZARDOUS	1. Generator ID Number	2. Page 1 of 2		ency Response		4. Manifest		2199	ПК
5. Generator's Name and Mail	KY 8890008982			r's Sile Address				2133	UUIN
Four Rivers Nuclear 5511 Hobbs Road Generator's Phone: 27	Partnership, LLC, (FRNP) on behalf of F , Kevil, KY 42053 0-441-8211	RNP	FRI Pac	NP on beh Jucah Gas 1 Hobbs R	alf of the F eous Diffu	RNP sion Plant			1
6. Transporter 1 Company Na	ne					U.S. EPA ID I		10004870	
7. Transporter 2 Company Na						U.S. EPAID		00034678	
The manapolitar 2 company has									
	Clive Disposal Site- Bulk Wast	e Facility				U.S. EPAID	lumber		
Facility's Phone: 1-435-8	Clive, UT 84029 184-0155					1.1	UTD9	82598898	
	tion (including Proper Shipping Name, Hazard Class, ID I	Number	1	10. Contair	ners	11. Total	12. Unit		
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	oactive material, lew specific activity (l ⊱99, Th-230, U-234, Solid/Oxide, 26),	2	DM	114	ĸ		
2.			ĺ						
3.			-						-
<u> </u>					-				
4.									_
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Exclusive Use S 15. GENERATOR'S/OFFER marked and labeled/plac Exporter, I cartify that the	he event of an RQ Release, call Shipment, See Attachment for Ar DR'S CERTIFICATION: Thereby declare that the conten- arded, and are in all respects in proper condition for trans contents of this consignment conterms of the terms of the	dditional Info nts of this consignment sport according to appli e attached EPA Acknow	are fully ar cable inter ledgment (national and nati of Consent.	onal governme	Shipm by the proper sh intal regulations.	ent ID: (pping name		0027 d, packaged,
Generator's/Offeror's Printed/T	nimization statement identified In 40 CFR 262.27(a) (if I ypod Name on Behalf OF F		nature	(b) (if I am a sma	Ill Quantity gene	erator) is true.		Month	Day Ye
16. International Shipments	Import to U.S.	Export from U	<u>slar</u>	Port of en			2	0	12 8
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17. Transporter Acknowledgma Transporter 1 Printed/Typed N Transporter 2 Printed/Typed N	əmə	Sig	nature					Month	Dayi Ye
18. Discrepancy		2	_			-			
18e. Discrepancy Indication Sp		EIVE		Residue	Number:	Partial Rej	ection	E F	ull Rejection
18b. Alternate Facility (or Germ	erator)	16 2023		8		U.S. EPAID N	lumber.		
Facility's Phone: 18c. Signature of Alternate Fac 19. Hazardous Waste Report I 1.	slity (or Generator)	Ŕ	H			1	68	Month	Day
19. Hazardous Waste Report I	lanagement Method Codes (i.e., codes for hazardous w		al, and recy	cling systems)	_	1			
1. H137	2.	3.				4.			
	or Operator: Certification of receipt of hazardous materia	als covered by the mani	ifest excep	t as noted in iter	n 18a				
Printed/Typed Name	h Lui	Sig	nature	+	C		\$2.	Month	Day Yi
Alt) Previous editions are obsolete		Cia	m.t	INTER TER	FACILITY			16 2

Additional Information Attachment, Page 2 of 2

Manifest Number: 023682199JJK

Shipment ID Number:	7340-08-0027

Shipment Date: 1/12/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Date to Storage	NET VOLUME (ff3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (Ib)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122623	122623-08		POTENTIALLY PCB CONTAMINATED PPE & PLASTIC	8/2/2022	7	179	81	123	56	13
9b.1	122623	122623-09		POTENTIALLY PCB CONTAMINATED PPE & PLASTIC	9/27/2022	7	187	85	127	58	13
		Totals	2			14	366	166	250	114	26

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.

Plea	ise	print or type.											B No. 2050-0039			
Î		WASTE MANIFEST	1. Generator ID	Number KY 8890008	3982	2. Page 1 of 2			441-6333		368		JJK			
	Ge	Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP FRNP on behalf of the FRNP 5511 Hobbs Road, Kevil, KY 42053 Paducah Gaseous Diffusion Plant nerator's Phone: 270-441-8211 Transporter 1 Company Name U.S. EPA ID Number														
	6. Transporter 1 Company Name Interstate Ventures, Inc.										R0000346	78				
	7.	r. Transporter 2 Company Name								U.S. EPAID Number						
	8.	8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site- Waste Treatment Facility US I-80 Exit 49, Clive, UT 84029									U.S. EPA ID Number					
	Fa	Facility's Phone:								UTD982598898						
		9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers								11. Total Quantity	11. Total 12. Unit Quantity Wt./Vol. 13. Waste Codes					
2		1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (Po								quantity	Herron.		- 1			
GENERATOR	F	Q 241, Np-237, Fissile Except		-239, To-99, Th-23	10, Liquid/Ox	kide, 0.41	7 MBo	, 1	DM	183	к					
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	L	3.								3.			*			
		0.														
	\vdash	4.														
	14	A. Special Handling Instruction							II							
•				of an RQ Relea				on Start Da	ite: NA	lfun		3 Start Date able, retur	: 02-21-22 n to genera			
	15	Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9750-04-0014 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,										4-0014 d, packaged,				
		15. GENERATOR SUPPEROR'S CENTRICATION: Instants declare that the contents of this consignment are low and according to explicable interval according to applicable interval according to applicable interval and labeled/placarded, and are in all respects in proper condition for transport according to applicable interval and advantage develop the proper strapping name, and are deasaned, pervaper, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable interval and advantage develop the proper strapping name, and are deasaned, pervaper, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable interval and an atoma 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. Lettify that the waster 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) or the small control quantity generator) or the terms.														
	G	BLAKE CIE	ped Name	On Behalf	OF F	RNF1 SK	BO	all C	llar	y		Month 01	Day Year			
INT'L		6. International Shipments			Ĺ	Export from	U.S.	Port of er Date leav		/						
		ransporter signature (for expo . Transporter Acknowledgmer		terials				Date leav	ing 0.5.:							
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TRANSPORTER	Tr	ansporter 2 Printed/Typed Na		100 10			gnature					Month	Day Year			
1	18	3. Discrepancy 3a: Discrepancy Indication Sp	200 [7]		AE	CE		/EI		Π						
		а, окоораној никакон ор	- α	uantity	Туре	AN 1	6 9	Residue	e Number:	Partial Rej	ection		Full Rejection			
CILITY		3b. Alternate Facility (or Gene	ralor)			M	A	020		U.S. EPAID N	lumber	ti.				
DESIGNATED FACIL	Fa 18	acility's Phone: Bc. Signature of Alternate Fac	ility (or Generator)	BY:	A	1					Month	Day Year			
ESIGN	19	9. Hazardous Waste Report M	lanagement Meth	od Codes (i.e., codes for ha	zardous waste tre	atment, dispos	al, and rec	cycling systems)		14						
		64132	•	^{2.}		3.				4.						
		0. Designated Facility Owner rinted/Typed Name	or Operator: Certi	fication of receipt of hazardo	ous materials cove		nifest exce Ignature	ept as noted in Ite	m 18a -			Month	Day Year			
ł		Au	surt	Euns				int	him	M		1	16 23			
EP	AF	orm 8700-22 (Rev. 12-17) Previous edit	ons are obsolete.			A-5	DES	SIGNATE	FACILITY	TO EPA	A's e-MANIF	EST SYSTEM			

Manifest Number: 023682201JJK

Shipment ID Number: 9750-04-0014

Shipment Date: 1/12/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description .	Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (Ib)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122622	122622-02	PAD22C50128	VENTILATION DUCT OIL AND WATER	02/21/22	5.95	460	209	404	183	0.417
		Totals	1			6	460	209	404	183	0.417

A-6

)			
UNIFORM HAZARDOUS WASTE MANIFEST	nerator ID Number KY 889000898	100 COLOR COM COLOR COLOR	nergency Response 1-270-441-		4. Manifest	Tracking Null 368	Approved. mber 222		JK
5511 Hobbs Road, K	antnership, LLC, (FRNP) on bei	nalf of FRNP F	rator's Site Address RNP on beha 'aducah Gase 511 Hobbs R	alf of the F Ious Diffu	RNP sion Plant	ss)			
6. Transporter 1 Company Name RSB LOGISTIC In 7. Transporter 2 Company Name					U.S. EPAID U.S. EPAID	WARD	000120	05	
US 1-80 Exit 49, C		te Treatment Facility			U.S. EPA ID				
····	L-0155 duding Proper Shipping Name, Hazard Cla	ass, ID Number,	10. Contai	-	11. Total Quantity	UTD98 12. Unit Wt./Vol.		Uaste Code	s
1111	nentally Hazardous substan	ce, solid, n.o.s. (PCB),	No.	_{Туре}	1.	K			
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with RCRA requirements. Trans	imited to, characterizing waste, manifestin portation hereunder is for DOE and the actu	ial total transportation charges paid	g and labeling waste are to be reimbursed	for transport, I by the Goven	and storing and	managing was to Contract De	ste, in accord E-EM0004893	ance	070
with RCR regulements. Trans 14. Secial Handling Instructions and Truck: 58308 Tra ERG # 171 In the See Attachment f 15. GENERATOR'S/OFFEROR'S I marked and tabled/placatdo, Exorter. Lentify that the conte	Indication, characterizing waste, mainfestion sortation hereunder is for DOE and the acti- Additional Information ailler 253285 TID: 34987 event of an RQ Release or Additional Info SERTIFICATION: I hereby declare that this and are in all respects in proper condition to of this consummation of the terr	varies to off-site facilities, packaging ial total transportation charges paid Accurryulation call 1-800-424-880 <u>Pm 020</u> contents of this consignment are for for transport according to applicable so of the attached EPAckdrowledgr	g and labeling waste are to be reimbursed n Start Date: 2 05 illy and accurately di international and na nent of Consent.	for transport, by the Goven N/A	and storing and ment pursuant If unde Shipm a by the proper s nental regulation	PCB Si PCB Si eliverable ent ID:	tart Date e, retui 9750-8	e: 09/ 171 to ge 30-000(assified, pad	ernær 3 kaged,
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Manifest Number: 023682222JJK

Shipment ID Number: 9750-90-0003 Shipment Date: 2/7/2023

				Ompinent Date.	LITTLULU					
UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Date To Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (Ib)	Net Wt (Kg)
9b.1	130083	130083-01	PAD22C50693	CAPACITORS FROM CHARGERS IN BATTERY ROOMS AND ASSOCIATED BCS	09/07/22	0.2	11	5	2	1
		Totals	1			0.20	11	5	2	1

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Plea		nt or type.	1 Oceanter 10 Marches		Do Dana di af	Form Approved. OMB No. 2050						0-0039	
Î	WA	ORM HAZARDOUS	1. Generator ID Number KY 88900	08982	2. Page 1 of 2		-270-441-	-6333	02	368	2223	JJK	
		erator's Name and Mailin			-		or's Site Address (-	5S)			
	1	5511 Hobbs Roa	ar Partnership, LLC, (FRNP) id, Kevil, KY 42053 270-441-5544	on behalf of FRN	P	Pa	NP on beha ducah Gase	ous Diffu	sion Plant				
		ator's Phone: isporter 1 Company Nam		10 A		00	1 Hobbs R	u, nevil, r	U.S. EPAID	Number		2	
		RSB LOGISTI						20	1		00012005		
	7. Trar	sporter 2 Company Nam	18						U.S. EPAID N	lumber			
	8. Des	ionaled Facility Name ar	nd Site Address. NS Clive Disposal Site-	Waste Treatn	nent Fac	ility			U.S. EPA ID I	Number			
			9, Clive, UT 84029										
	Facilit	/s Phone: 1-435	-884-0155						Ĩ.	UTD9	32598898		
	9a. HM		ion (including Proper Shipping Name, Haany))	azard Class, ID Number,	D		10. Contair No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Was	le Codes	
2		1. UN 2913, Wa	ste, Radioactive Material, s	surface contamir	nated obje	cts					DOOS		
GENERATOR	RQ	(SCO-I), 7, (D MBa, Fissile E	0008, PCB), NP-237, Tc-9 Excepted	9, U-234, U-236	, Solid/Ox	kide, 1	1	СМ	211	ĸ			
ENE		2.											
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		3											
	_			in the second				·					
		FRNP is responsible for EM0004895, including, b	tnership, LLC (FRNP) and the U.S. Departy performing all Resource Conservation an but not limited to, characterizing waste, s. Transportation hereunder is for DOE a	d Recovery Act (RCRA) go munifesting waste to off-	enerator activit	ies on bet ackaging	alf of both FRNP : and labeling waste	and DOE for all for transport,	activities under	the scope of managing w	FRNP's Contract (E-	
	14. Sp		ns and Additional Information					LI			l		
			the event of an RQ Re	349879			Start Date:	03/07/2			tart Date:	03/07	
			nt for Additional Info	lease, call 1-6	•						e, return i	-	rate
			DR'S CERTIFICATION: I hereby declar	re that the contents of thi	PM02		and accurately de	scribed above			9750-01- and are classifie		J.
	r E	narked and labeled/place Exporter, I certify that the	arded, and are in all respects in proper of contents of this consignment conform to nimization statement identified in 40 CF	condition for transport ac	cording to app ed EPA Acknow	licable inte wiedgmen	mational and nati of Consent.	onal governm	ental regulations				
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DESIGNATED FACILIT	18c. S	Signature of Alternate Fac	ility (or Generator)	FFR 1	3 20	23					Month	Day	Year
SIG		azardous Waste Report N	lanagement Method Codes (i.e., codes	for hazardous waste tre	atment, dispos	al, and re	cycling systems)						
	1.	H132	2.	BY: M	A 3.				4.				
		esignated Facility Owner	or Operator: Certification of receipt of h				pt as noted in Iter	n 18a					
	Printe	d/Typed Name	1		S	gnature	1,1				Month		Year 23
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Manifest Number: 023682223JJK

Shipment ID Number: 9750-01-0098

Shipment Date: 2/7/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date To Storage	Maximum Activity MBq	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	122667-01	122667-01	PAD22C50415	Site Process Equip.	03/07/22	03/07/22	1	30	1258	571	465	211
		Totals	1				1	30.00	1258	571	465	211

122667-01

9750-01-0098

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	023682223JJK	
Profile No.:	9750-01	State Manifest No.:	N/A	

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

Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the 2. 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.

DEE #	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK N	IONE.	5. HOW MUST THE WASTE BE MANAGED?
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	NONE	ENTER LETTER FROM BELOW
1	D008	TCLP Lead		A
2				
3		QN 11/30/2022		
4	+	0		

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.

Teler to the	se state citations instead of the 40 of 17 ortations.
Α.	RESTRICTED WASTE REQUIRES TREATMENT
	This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
	Sor 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
	decharacterized waste contains underlying hazardous constituents that require internet to meet reachent standards. Fain aware that there are significant penalties
•	for submitting a false certification, including the possibility of fine and imprisonment." RESTRICTED WASTE SUBJECT TO A VARIANCE
C.	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
υ.	"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
L .	This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.
Lboroby	codify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2022.11.30 15:20:46 -05'00' JOSHUA NORMAN 11/30/2022 Waste Engineer Date Title Signature(Affiliate)

> Form A1 Page 1 of 2

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 STANDARDS2								
F001 through F005 spent solvent constituents and their associated	Treatm	ent Standard ¹	F001 through F005 spent solvent constituents and their associated USEPA hazardous	Treatment Standard ¹				
USEPA hazardous waste code(s).	Wastewaters	Nonwastewaters	waste code(s).	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

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	023682223JJK	

Profile No.:	9750-01	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 <u>IS NOT</u> 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.

	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	5. HOW MUST THE WASTE BE MANAGED? ENTER		
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	N	ONE	LETTER FROM FORM A1, PAGE 1
5	-		-[
6			[
7			[
8					
9			[
10			[V
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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: 2022.11.30 15:21:45 -05'00'

Signature	AL CARGE AND THE THE THE THE THE THE THE AND AND AND THE THE THE THE T	 Butter 2022111150 15121115 05 00
Title	Waste Engineer	

Date 11/30/2022

Form A2 Page 1 of 2

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	023682223JJK	
Profile No.:	9750-01	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 <u>IS NOT</u> 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.

	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	NONE.	5. HOW MUST THE WASTE BE MANAGED? ENTER
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	NONE	LETTER FROM FORM A1, PAGE 1
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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: 2022.11.30 15:22:30 -05'00'

Title Waste Engineer

_{Date} 11/30/2022

Form A2 Page 2 of 2

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

0			
Gene	rator	Name	Э.

Profile No.:

Four Rivers Nuclea	r Partnership	
1 Sundanna an	0	

Manifest Doc. No. :

75/409750-90-7750-01

State Manifest No.:

023682222JJ N/A

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	1 1	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	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	0.141	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.41	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	1 1	0.028 ¹	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)	ON	0.0033	0.26	trans-1,3-Dichloropropylene	an	0.036	18
p-Chloroaniline	11/30/2022	0.46	16	Dieldrin	11/30/2022	0.017	0.13
Chlorobenzene		0.057	6.0	Diethyl phthalate		0.20	28

Form B1 Page 1 of 3

Page 5 of 7

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	5 K.	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
	-	0.017	28	Molinate		0.042 ¹	1.4 ¹
Di-n-octyl phthalate		0.40	14	Naphthalene		0.059	5.6
Di-n-propylnitrosamine		12.0	170	2-Naphthylamine		0.52	NA
1,4-Dioxane		0.92	13 ¹	o-Nitroaniline		0.27 ¹	141
Diphenylamine ³			13 ¹			0.27	28
Diphenylnitrosamine ³		0.92		p-Nitroaniline		0.028	14
1,2-Diphenylhydrazine		0.087	NA	Nitrobenzene			
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
		0.24	160	Parathion		0.014	4.6
Ethyl ether				Total PCBs (sum of all PCB			
Bis(2-Ethylhexyl)phthalate		0.28	28	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
	+ +	0.055	2.4	Phorate		0.021	4.6
Hexachlorocyclopentadiene							
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		0.0561	1.41
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
lodomethane		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
	+ +	0.056 ¹	1.4 ¹	1,2,4,5-Tetrachlorobenzene	1 1	0.055	14
Methiocarb Methomyl		0.0281	0.14 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor	av	0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)	an	0.000063	0.001
3-Methylcholanthrene	11/30/2022	0.0055	15	1,1,1,2-Tetrachloroethane	11/30/2022	0.057	6.0
4,4'-Methylene bis(2-	1		30	1,1,2,2-Tetrachloroethane	¥ >	0.057	6.0
chloroaniline)	*	• 0.50	30	1, 1, 2, 2-1 etrachioroethane		0.007	0.0

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	NA⁴
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	Qu	0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of o-,m-, and p-xylene	11/30/2022	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
/	Qu			Thallium	Qu	1.4	0.20 mg/l
	11/30/2022			Vanadium	11/30/2022	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.

> Form B1 Page 3 of 3

ease print	and a second s	1. Generator ID Numb	ber		2. Page 1 of	3. Emerger	cy Response	e Phone	4. Manifest	Tracking N	n Approved		
	RM HAZARDOUS	KY	888000388;	2.	2	1.	-270-44	1-6333	02	368	3225	59 .	IJK
5. Gener	rator's Name and Mailin	g Address	da analai a da			Generator's	Site Address	(if different the	nan mailing addre . Departme				
		Nuclear Par				aducah (IL OF EU	~18λ		
1		e U.S. Depa				511 Hob			and an event and a set				
	or's En Snie:1 Hobb		I, KY 42053	A Special and a special second se	۲	ortriod		19 MI, 15 (U.S. EPAID	Number			
6. Trans	porter 1 Company Nam										/AR000	04000	5
7 Trans	RSB LOGIS					-			U.S. EPA ID		AROUU	01200	<u> </u>
T. Trano	portor 2 company riam												
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1		35-884-0155											
Facility's		30-004-0100	1								·		
	9b. U.S. DOT Descriptio		nipping Name, Haza	rd Class, ID Number	r,		10. Conta	1	11. Total	12. Unit	13	Waste Co	des
1 1141	and Packing Group (if a	•			tanta t		No.	Туре	Quantity	Wt./Vol.		1	1
		Radioactive m						0.1	00	14			
RO		:O-I), 7, Np-2					1	DM	69	K			
2	Selid/Oxide	, (PCB) 0.3 6	MBq, Fiss	ile Excepted	<u>.</u>		and deale weeks						+
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14 800	rial Handling Induction	o-and Additional Inform	nation		11 In And				808				
14. Spec	cial Handling Instruction				349197			tion date:		PCB Star		03/1	
14. Spec	ERG # 162	In the eve	nt of an RQ	Release, c	all 1-800	-424-88	02		If undelive	erable,	return t	o gene	
	ERG # 162 Exclusive L	In the eve Jse Shipmen	nt of an RC t, See PCB	Release, c Attachmen	call 1-800 t for Addi	-424-88 itional Ir	02 No		If undelive Shipmen	erable, t ID: \$	return t)750-90	o gene -0004	rato
15. GE ma Exj I ce	ERG # 162 Exclusive L NERATOR'S/OFFERO arked and labeled/placar porter, I certify that the c ertify that the waste mini	In the eve Jse Shipment R'S CERTIFICATION: ded, and are in all resp contents of this consign imization statement ide	t, See PCB thereby declare the pects in proper cond	Attachmen Attachmen at the contents of the lition for transport are e terms of the attach	t for Addi ts consignment coording to appli ted EPAAcknow	-424-88 itional Ir are fully and icable Internal vledgment of (02 nfo accurately de tional and na Consent.	escribed abov lional governr	If undelive Shipmen e by the proper s nental regulations	erable, tID: \$	return t 1750-30 He, and are cla hipment and	o gene -0004 assified, pa am the Pri	ckaged, imary
15. GE ma Ex I co Generati	ERG # 162 Exclusive L NERATOR'S/OFFERO arked and labeled/placar porter, I certify that the certify that the waste mini- or's/Offeror's Printed by or's/Offeror's Printed by	In the eve Jse Shipment R'S CERTIFICATION: ded, and are in all resp contents of this consign imization statement ide	nt of an RG t, See PCB Thereby declare th pects in proper cond ment conform to the entified in 40 CFR 20	Release, or Attachment at the contents of the lition for transport arc terms of the attact 62.27(a) (if I am a la	t for Addi t for Addi nis consignment coording to appli ned EPAAcknow rge quantity ger	-424-88 itional Ir are fully and icable Internal vledgment of (02 nfo accurately de tional and na Consent.	escribed abov lional governr	If undelive Shipmen e by the proper s nental regulations	erable, tID: \$	return t 1750-30 He, and are cla hipment and	o gene -0004	ckaged, imary
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Manifest Number: 023682259JJK

Shipment ID Number: 9750-90-0004

Shipment Date: 2/23/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (Ib)	NET Wt (Kg)
9b.1	122668	122668-01	PAD22C50602	PCB LIGHT BALLASTS, CAPACITORS, TRANSFORMERS ETC	03/10/22	2.8	183	83	153	69
		Totals	1			2.8	183	83	153	69

ase print or type.								Appioico.	OMB No.	
	erator ID Number KY 889000898		Page 1 of 3. Eme	rgency Responsi	Phone 1-6333	4. Manifes	t Tracking Nu 368	mber		JK
5. Generator's Name and Mailing Addres	ss lear Partnership, LLC, 1		Genera FRNP (or's Site Address	(if different the	an mailing addre	ess)			
	6. Department of Energ			h Gaseous			it of tailer	81		
Generator 5564 Hobbs Roa	d, Kevil, KY 42053	-	5\$11 H	obbs Rd, Ke	evil, KY 4					
6. Transporter 1 Company Name	way on behalf of					U.S. EPA ID				
Hittman Transpo 7. Transporter 2 Company Name	nt Services					U.S. EPA ID		<u>160000</u>	034686	
						1				
8. Designated Facility Name and Site Ad EnergySolutions		ilk Waste Fa	acility			U.S. EPA ID				
US I-80 Exit 49, 1-435-88	Construction of the balance						U	TD982	598898	
Facility's Phone:										
9a. 9b. U.S. DOT Description (inclue HM and Packing Group (if any))	ding Proper Shipping Name, Hazard Cla	iss, ID Number,		10. Contai No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	s
	ive material, low specific ac	•••								
	u-239, TC-99, Th-230, U-2	234, Solid/Oxi	ide, 26.07	1	DM	71	ĸ			
MBq, Fissile Except 2.	<u>tea</u>									
3.							+			<u> </u>
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14. Second Handling Instructions and Ad	different information									
14. Special Handling Instructions and Ac Truck: 2001 44	dilijonal Information		6.010.000-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0			1	PCB Star	t Date:	10/0	7/22
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				PCB and Additional Information Attache	nent, Page 2 of 2					
				Manifest Number:	023682277JJK					
				Shipment ID Number:	7340-08-0028					
				Shipment Date:	3/23/2023					
UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Date to storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (Ib)	NET Wt (Kg)
9b.1	122623	122623-10	PAD22C51278	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	10/7/2022	7.4	216	98	156	71
		Totals	1			7.4	216	98	156	71

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.

Plea	ase print or type.									Form	Approved.	OMB No.	2050-0039
1	UNIFORM HAZARD		Number KY 88900089	82	2. Page 1 of 2		rgency Response 1-270-441		4. Manifest		231	2 J	JK
	5. Generator's Name and					General	or's Site Address	if different that	an mailing addres				
	Four Rivers 1 5511 Hobbs Generator's Phone:	luclear Partnershi Road, Kevil, Ky 270-441-5		ehalf of FRN	Ρ	Pa	RNP on beh Iducah Gase 11 Hobbs R	eous Diffe	usion Plant				
	6. Transporter 1 Company	Contraction of the second s							U.S. EPAID Number				
	RSB LOG									1001001110	000120	00	
	7. Transporter 2 Company	y Name							U.S. EPA ID N	umbér			
	8. Designated Facility N Energy So	me and Site Address	isposal Site- Wa	ste Treatn	nent Fac	aility			U.S. EPAID N	lumber			
	US 1-80 E	kit 49, Clive, L	JT 84029										
	1-	435-884-0155							1	UTD9	8259888	38	
	Facility's Phone:		or Chinning Name Hazard C	laca ID Number			10 Contain	ore	di Talal	10 11-14			
	ga. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, HM 10. Containers HM Packing Group (if any)) No. Type						11. Total Quantity	12. Unit Wt./Vol.	13. V	Vaste Code	es		
ATOR -	RQ 1. UN 2912 RQ To-99, Tr		iterial, low specific a Ilid/Oxide, 316 MBq			CB),	2	СМ	468	к			
- GENERATOR	RQ ^{2.} UN 2912 Np-237, 7		iterial, low specific a J-234, Solid/Oxide,				1	DM	15	ĸ			
	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 arxivities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, Including, but not limited to, characteriting waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with the transport and the actual total transportation charges paid are to be reimbursed by the Goverment pursuant to Contract DE-EM0004895.												
	14. Special Handling Instructions and Additional Information Truck: 505306 Trailer 79357 TID: 2061486 Accumulation Start Date: NA PCB Start Date: 05/18/22												
11			of an RQ Releas	e. call 1-8	300-424-	-8802			If unde	liverab	le, retur	n to g	enerato
11	EXCLUSI		ee PCB Attachme				PROGL	77			7340-0	-	
	marked and labele Exporter, I certify the location of the labele	d/placarded, and are in a at the contents of this co ste minimization stateme	TION: I hereby declare that the ll respects in proper condition onsignment conform to the ter ant identified in 40 CFR 262.2	n for transport acc rms of the atlache	cording to appl ad EPA Acknow	licable inte wledgmen	emational and nati t of Consent.	onal governm	ental regulations.	lpping name If export sh	ipment and I a	am the Prin	nary
ļ	Generator's/Offeror's Pri	ea on be	chalf of t	TRUP		gnature	gina t	en			Mon 4	ih Day	y Year 23
EN	16. International Shipme Transporter signature (f		t to U.S.	L	Export from	U.S.	Port of en Date leavi						
R	17. Transporter Acknowl	dgment of Receipt of Ma	iterials										
E S	Transporter 1 Printed/Ty	bed Name			Si	gnature	~ h				Mon	th Day	
L G G	Sharve Cul)		,	Ĩ	theil	. Upp				4 Mon	th Day	7 23 y Year
TRANSPO	Transporter 2 Printeo/19	ped Name			1	gnature					I	1 00,	1
E	18. Discrepancy												_
IĨ	18a. Discrepancy Indica	ion Space Q	uantity	Туре		[Residue		Partial Rej	ection	[Full Re	jection
				RI	=C	E	anifest Reference	Number					
	18b. Alternate Facility (c	r Generator)		U		- Colorenza	A DIGHT METCHINA	-	U.S. EPA ID N	lumber			
ACIL				A	ΜΔΥ	01	2023		T				
DESIGNATED FACIL	Facility's Phone: 18c. Signature of Altern	te Facility (or Generator)		VICM	AA	1	U			Mo	nth Da	ay Year
SIGN	19. Hazardous Waste R	eport Management Meth	od Codes (i.e., codes for haz	ardous waste trea	atment, dispos	al, and re	cycling systems)						
E DE	H 30		2. H132		3.				4.				
		Owner or Operator: Certi	fication of receipt of hazardou	us materials cover			ept as noted in Iter	n 18a			Mor	nth Day	y Year
	Printed/Typed Name	HA. G	lann		s I	ignature	+1	10	2		10		/ 23
EP	A Form 8700-22 (Rev.		ons are obsolete.			,XL	DES	IGNATE	D FACILITY	TO EP/		M_	1000

A-22

Manifest Number: 023682312JJK

Shipment ID Number: 7340-08-0029

Shipment Date: 4/27/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	NET VOLUME (ft3)	PCB Date To Storage	Total Activity (MEq)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT {Ib}	Net Wt (Kg)
95.1	122235	122235-05	PAD22C50509	EPOXY PAINT CHIPS,	15	5/18/2022	57	1000	454	211	96
9b.1	122193	122193-10	PAD22C50285	EPOXY PAINT CHIPS,	65	6/24/2022	259	1612	731	820	372
9b.2	122623	122623-12	PAD23C60071	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	6	2/20/2023	17	84	38	34	15
		Totals	3		86.00		333	2696	1223	1065	483

Plea	se print or type.								pproved. OMB	No. 2050-0039
1	UNIFORM HAZARDOUS	1. Generator ID Number	Y 8890008982	2. Page 1 of 3. En	ergency Response	441-633	3 4. Manifest	Tracking Num		
	5. Generator's Name and Mail	ng Address		Gener	ator's Site Address	(if different tha	n mailing addres	is)		
	Fo	ur Rivers Nuclear F	artnership, LLC, (FR	NP).		FRNP f	or U.S. De	partment	of Energy (I	
		and the second second	ent of Energy (DOE) ad, Kevil, KY 42053	12	5-44-1				usion Plant,	
	Generator's Phone: 6. Transporter 1 Company Nat		Bu, NEVII, NJ 42000	191	5 9971	- 6000	U.S. EPAID N	lumber		
	RSBLOGIS	TICS Inc.		• •			1	CHEVOLUS -	R0000120	105
	7. Transporter 2 Company Nat	пе					U.S. EPAID N	lumber		
	8. Designated Facility Name a						U.S. EPAID N	lumber		
			al Site-Treatment	Facility						
	The second second second second second	49, Clive, UT 84 5-884-0155	029				i –	UT	09825988	98
	9a. 9b. U.S. DOT Descrip	tion (including Proper Shippin	g Name, Hazard Class, ID Num	ber,	10. Contai	ners	11. Total	12. Unit	13. Waste	Codes
	HM and Packing Group (if	any))			No.	Туре	Quantity	Wt./Vol.		
<u>R</u>	UN 3077, Er	nvironmentally ha	zardous substance	e, solid, n.o.s.,	i	DM	3	- R		
ERA	(PCB), 9, P	G-111			ļ	L/1/0	3	<u> </u>		
GENERATOR	2.									
1										
	3.									
	4.									
					* a.			ΙΓ		
	14. Special Handling Instruction Truck:58718	ons and Additional Information	TID: 0349776		PCB Start ()ate 02/	16/23			
			an RQ Release, ca	1-800-424-8				ble, retu	m to gener	rator
	See Attachn	nent for Additiona	al Info	Pmozy	57	Shi	pment ID:		50-90-000	
	marked and labeled/place	arded and are in all respects	reby declare that the contents o in proper condition for transport	according to applicable i	nternational and nat	scribed above ional governme	by the proper st ental regulations.	hipping name, a . If export ship	and are classified, ment and I am the	packaged, Primary
	Exporter, I certify that the I certify that the waste m	e contents of this consignmen inimization statement identifie	t conform to the terms of the atta d in 40 CFR 262.27(a) (if I am a	ached EPA Acknowledgm large quantity generator	ent of Consent. or (b) (if I am a sm	all quantity gen	erator) is true.			
	Generator's/Offeror's Printed/	Typed Name	for us I	Signature	nda	no L	1900	Ho	Month	Day Year
+	16. International Shipments	Gilleric	TUIUSE	106 (1)	Port of er	- y	mo	U.	Le l	$a \cup a$
LLINI	Transporter signature (for exp	Import to U.S. ports only):		Export from U.S.	Date leav					
	17. Transporter Acknowledgme Transporter 1 Printed/Typed N	ni or		Signature	11 0	,			Month	Day Year
R	Transporter 1 Finitourryped in		PM	Gignatere	VALK	6			161	60
10		Mex Lot			Leger J	20				
ANSP	Transporter 2 Printed/Typed N	MEXION		Signature	egers.	20			Month	Day Year
+ TRANSPORTER		MEXION		Signature	eg ro				Month	Day Year
+ TRANSPI	Transporter 2 Printed/Typed N 18. Discrepancy 18a. Discrepancy Indication S			Signature	Residue		Partial Re	jection		Il Rejection
+ TRANSPI	18. Discrepancy	Iame		Signature ECEI	Residue		Partial Re	jection		
1 λ	18. Discrepancy 18a. Discrepancy Indication S 18b. Alternate Facility (or Ger	tame		Signature	Røsidee Manifest Reference	a Number:	U.S. EPAID			
1 λ	18. Discrepancy 18a. Discrepancy Indication S 18b. Alternate Facility (or Ger	tame		Signature	Rasidue Manifest Reference 2023	a Number:				
1 λ	18. Discrepancy 18a. Discrepancy Indication S 18b. Alternate Facility (or Ger	Iame	Тур	Signature		a Number:				
1 λ	18. Discrepancy 18a. Discrepancy Indication S 18b. Alternate Facility (or Ger	Iame Ipace Quantity verator) citity (or Generator)	BY:	MA	2023	a Number:				Il Rejection
1 λ	18. Discrepancy 18a. Discrepancy Indication S 18b. Alternate Facility (or Ger	Iame Ipace Quantity verator) Icility (or Generator) Management Method Codes	Тур	MA	2023	Number:				Il Rejection
- DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication S 18b. Atternate Facility (or Ger Facility's Phone: 18c. Signature of Atternate Fac 19. Hazardous Waste Report 1. H13Z	Iame Ippace Quantity Inerator) Itality (or Generator) Itality (or Generator) Itality (2.	BY:	treatment, disposal, and	2023 recycling systems)	J	U.S. EPAID			Il Rejection
Λ	18. Discrepancy 18a. Discrepancy Indication S 18b. Atternate Facility (or Ger Facility's Phone: 18c. Signature of Atternate Fac 19. Hazardous Waste Report 1. 1. 20. Designated Facility Owne	Iame Ippace Quantity Inerator) Itality (or Generator) Itality (or Generator) Itality (2.	BY:	treatment, disposal, and 3. overed by the manifest ex	2023 recycling systems)	J	U.S. EPAID			II Rejection
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← DESIGNATED FACILITY →	18. Discrepancy 18a. Discrepancy Indication S 18b. Alternate Facility (or Ger Facility's Phone: 18c. Signature of Alternate Facility 19. Hazardous Waste Report 1. 1. 20. Designated Facility Owne Printed/Typed Name	Iame Ipace Quantity Interator) Interator Inter	(i.e., codes for hazardous materials c	treatment, disposal, and 3. overed by the manifest ex	2023 recycling systems) ccept as nded in life	m 18a	U.S. EPAID 	Number	Month	Il Rejsction Day Year Day Year Day Year

Manifest Number: 023682332 JJK

Shipment ID Number: 9750-90-0005

Shipment Date: 6/20/2023

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	130162	130162-01	PAD23C60339	PCB LIGHT BALLASTS AND/OR CAPACITORS	02/16/23	0.2	12	5	7	3
		Totals	1			0.2	12	5	7	3

Plea	ise pr	int or type.								Form	n Approved	. OMB No.	2050-0039
1	W	FORM HAZARDOUS		Y 8890008982	2. Page 1 of 2		rgency Response 1-270-441	-6333		368	233	8 J	JK
	5. Ge	Four Rivers Nume Four Rivers Num for U.S. Departi		LLC, (FRNP)			or's Site Address (FRNP for U Paducah Gi						
	Gene	5511 Hobbs Ro	ad, Kevil, KY 420	53		5511 Hobbs Rd, Kevil, KY 42053							
		ansporter 1 Company Nan RSB LOGIST							U.S. EPAID Number WAR 000012005				
	7. Tr	ansporter 2 Company Nan					· · ·		U.S. EPA ID Number				
	8 De	esignated Facility Name ar	nd Site Address						U.S. EPA ID I	lumber			
		EnergySolutio	ons Clive Dispo	sal Site- Waste Treatr	ment Fa	cility							
	Facil		19, Clive, UT 84 5-884-0155	1028					r u	JTD98	2598898	3	
11	9a, 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,						10. Contain	ers	11. Total	12. Unit	13.	Waste Code	5
	HM	and Packing Group (if 1. UN 2912, Wa		material, low specific activ	vity (LSA-	1). 7.	No.	Туре	Quantity	Wt./Vol.	8000	0007	8000
GENERATOR		(PCB, D008) Fissile Except		Th-230, U-234, Solid/Oxi	ide, 71 M	Ðq,	2	DM	79	к			0000
- GENI	RQ	2 ^{2.} NA3077, Haz (D010)	ardous waste sol	id, n.o.s., (Barium, Seleni	ium), 9, P	G III,	3	DM	67	к	D005	D010	
	RQ			naterial, surface contamin Np-237, To-99, Th-230, L		cts	1	DM	25	к	D008	D007	D008
	Solid/Oxide, 0.77 MBg, Fissile Excepted								14	ļ			
Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-cenerators 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 this soope of FRNP's contract DE- EM0004995, including, but not limited to, characterizing waste, manifesting waste to off-life failudes, packaging and labeling waste for transport, and storing and manuging waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reinbursed by the Government pursuant to Contract DE-EM0004895.													
	14.5		Trailer 253191	TID: 349776			Start Date:	03/22/2			rt Date:	02/2	
				nt of an RQ Release, e PCB Attachment for					If undeliv Shipmer				erator
	15.	GENERATOR'S/OFFER	OR'S CERTIFICATION: 11	hereby declare that the contents of this ts in proper condition for transport acc	s consignment	are fully a	and accurately des	cribed above	by the proper sh	ipping name	e, and are cla	ssified, pack	aged,
	Case	Exporter, I certify that the	contents of this consignment identition statement identition	as in proper condition for transport acc ent conform to the terms of the attache fied in 40 CFR 262.27(a) (if I am a larg	ed EPA Acknow	vledgmen	t of Consent.			. Il export si	Mo		
+	K	Paina Plac International Shipments	on behal	f of FRNP		Re	gina	tea			10	6 20	123
INT		nsporter signature (for exp			Export from	0.5.	Port of ent Date leaving						
RER		ransporter Acknowledgme spirter 1 Printed/TypeqNa			Sig	nature /	1		n		Mo	nth Day	Year
TRANSPORTER		Sporter 2 Printed/Typed No	er hoten			Inature	<u>uj on</u>	au	Kota	to		D Day	Year
TRAN	ITan					gnatore	1						.
Î	-	Discrepancy Discrepancy Indication Sp	1909 D	AFC	FI		ER		[
			ace Quantity	Ц Тура			Residue	Number:	Partial Rej	ection		Full Rej	ection
CILITY		Alternale Facility (or Gene	erator)	IV JU	N 2 3	202	3		U.S. EPAID I	Number			
DESIGNATED FACIL	Facil 18c.	lity's Phone: Signature of Alternate Fac	slity (or Generator)	BY: A	11						M	onth Da	y Year
NAT				V	V								
DESIC	19.1	•	2.	s (i.e., codes for hazardous waste trea	atment, disposi 3.	al, and re			4.				
li	-	H13		Hi32	and by the man	inet over	H132					•	
		ted/Typed Name	u v r	of receipt of hazardous materials cover		gnature	0 1		-			onth Day	
HEP.	AFon	R 8700-22 (Rev. 12-17		obsolete.			DES	IGNATE	FACILITY	TO FP		6 Z	-

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Shipment ID Number: 9750-01-0101
```

Shipment Date: 6/20/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	Accumulation Start Date	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (Ib)	Net Wt (Kg)	Maximum Activity MBq
9b.1	121650	121650-62	PAD23C60005	LEAD WASTE, lead paint chips	N/A	03/22/23	6.1	98	44	48	22	34
9b.1	121650	121650-63	PAD23C60088	LEAD WASTE, lead paint chips	N/A	04/17/23	6.6	176	80	126	57	37
9b.2	122234	122234-17	PAD22C51097	ABSORBENTS FROM LUBE OIL THAT WAS GENERATED IN SUPPORT OF PGDP	N/A	04/20/23	6	100	45	44	20	N/A
9b.2	122234	122234-18	PAD23C60750	ABSORBENTS FROM LUBE OIL THAT WAS GENERATED IN SUPPORT OF PGDP	N/A	05/09/23	6.5	94	43	44	20	N/A
9b.2	122234	122234-19	PAD23C60527	ABSORBENTS FROM LUBE OIL THAT WAS GENERATED IN SUPPORT OF PGDP	N/A	05/18/23	6.5	110	50	60	27	N/A
9b.3	130163	130163-01	PAD23C60072	PCB CONTAMINATED ASBESTOS	02/20/23	06/05/23	6	105	48	56	25	0.77
		Totals	6				37.7	684	310	378	171	71.77

Manifest Number: 023682338JJK

130163-01

9750-01-0101 LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	023682338JJK	
Profile No.:	9750-01	State Manifest No.:	N/A	

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

klentify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the 2 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.

	3. USEPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	5. HOW MUST THE WASTE BE MANAGED?		
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	NONE	ENTER LETTER FROM BELOW	
1	D006	Cadmium (TCLP)		А	
2	D007	Chromium (TCLP)		А	
3	D008	Lead (TCLP)		A	
4		SS-06/06/2023		>	

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 b refer to those state citations instead of the 40 CFR citations. A. RESTRICTED WASTE REQUIRESTREATMENT

Α.

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."

RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS **B.1**

- "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."
- GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS **B.3** "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 nonw astewater 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." DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

B.4 "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."

- RESTRICTED WASTE CAN BELAND DISPOSED WITHOUT FURTHER TREATMENT D. "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 aw are that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."
- WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS E.
- 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	MARY STAHR (Affiliate)	Digitally signed by MARY STAHR (Affiliate) Date: 2023.06.06.09:54:47-05'00'	 WASTEENGINEER	Date	-

Form A1 Page 1 of 2

If the waste identified on the first page of this form is described by any of the follow ing 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 WA	STE TREATMENT STANDARDS ²			
F001 through F005spent solvent constituents and their associated	Treatm	ent Standard ¹	F001 through F005spent solvent constituents and their associated USEPA hazardous	Treatment Standard ¹		
USEPA hazardous waste code(s).	Wastewaters	Nonwastewaters	waste code(s).	Wastewaters	Nonwastewaters	
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP) ³	
Benzene (F005)	0.14	10	Methy lene chloride (F001, F002)	0.089	30	
n-Butanol (n-buty l alcohol) (F003)	5.6	2.6	Methylethylketone (F005)	0.28	36	
Carbon disulfide (F005)	3.8	4.8 (TCLP) ³	Methy I isobuty I 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) follow ed by CARBN}	INCIN	
o-Cresol (F004)	0.11	5.6	Py ridine (F005)	0.014	16	
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethy lene (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-Ethox yethanol (F005) also called ethy lene gly col, moroethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0	
Ethylacetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0	
Ethy I benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30	
Ethy I ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2- trifluoroethane (F002)	0.057	30	
Isobutanol (Isobuty I Alcohol) (F005)	5.6	170	Xy lenes (sum of o-, m-, and p- isomers) (F003)	0.32	30	

¹ All spent solv ent 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 ISDWA 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 sy stems.

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

10	01	10	01
13	UI	03	-01

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	023682338JJK
Solioi ator Harlor			

Profile No .:

9750-01

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 <u>IS NOT</u> 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.

	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	5. HOW MUST THE WAST BE MANAGED? ENTER		
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	NC		LETTER FROM FORM A1, PAGE 1
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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	MARY STAHR (Affiliate)	 Digitally signed by MARY STAHR (Affiliate) Date: 2023.06.06.09.53:55 -05'00' 			
5	STEENGINEER			Date	 21
			Form A2		

13	01	63	-0	1

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	023682338JJK	
Profile No.:	9750-01	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.

	3. USEPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	N	DNE.	5. HOW MUST THE WASTE BE MANAGED? ENTER
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	N	ONE	LETTER FROM FORM A1, PAGE 1
36	Language				
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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 MARY STAHR (Affiliate)	Digitally signed by MARY STAHR (Affiliate) Date: 2023.06.06 09:53:10 -05'00'	
Title WASTEENGINEER		 Date

Form A2 Page 2 of 2

10	01	62	01
13	U	63.	-01

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

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 023682338JJK

Profile No .:

9750-01

State Manifest No.:

N/A

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 w hich 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'
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile	1	5.6	381	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone	1	0.010	9.7	bis(2-Chloroethyl)ether	1	0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform	1	0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acylamide		19'	23'	p-Chloro-m-cresol	1	0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.062'	NA '
Aldicarb sulfone		0.056 ¹	0.28 ¹	Chloromethane/Methyl	1	0.19	30
ing managan menanganan persebutah ing persebutah pers			0.000	chloride		0.055	5.6
Aldrin		0.021	0.066	2-Chloronaphthalene	<i> </i>	0.055	5.0
4-Aminobiphenyl		0.13	NA	2-Chlorophenol	ļ	0.044	30
Aniline		0.81	14	3-Chloropropylene			30
Anthracene		0.059	3.4	Chrysene	ļ	0.059	3.4 5.6
Aramite		0.36	NA	o-Cresol		0.11	100,000 L
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'	1.4'
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l
Barban		0.056'	1.4'	o,p'-DDD		0.023	0.087
Bendiocarb	Î	0.056'	1.4'	p,p'-DDD		0.023	0.087
Benomyl		0.056'	1.4'	o,p'-DDE		0.031	0.087
Benzene	Î	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	SS 06/06/2023	0.055	6.0	p,p'-DDT	SS 06/06/2023	0.0039	0.087
Benzo(b)fluoranthene ³	00 00/00/2020	0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene		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'	1.4'	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane	L	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	0.14	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056	1.4'	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006	0.14	2,4-Dichlorophenol	1	0.044	14
Carbofuran phenol		0.056'	1.4'	2.6-Dichlorophenol	1	0.044	14
Carbon disulfide		3.8	4.8 mg/l	2,4-Dichlorophenoxyacetic		0.72	10
Carbon tetrachloride		0.057	TCLP ¹ 6.0	acid/2,4-D 1,2-Dichloropropane	+ /	0.85	18
Carbosulfan		0.0281	1.4	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma	a /	0.020			1		18
isomers)	a	0.0033	0.26	trans-1,3-Dichloropropylene	J	0.036	18
p-Chloroaniline	1	0.46	16	Dieldrin	J		28
Chlorobenzene	2	0.057	6.0	Diethyl phthalate		▶ 0.20	20

Page 5 of 7

13

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'	NA
2,4-Dimethylphenol	1	0.036	14	Methylenechloride		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	33 160
,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14 0.018	NA
,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	4.6
,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	1.4'
,4-Dinitrotoluene		0.32	140	Metolcarb		0.056	1.4
6-Dinitrotoluene		0.55	28 28	Mexacarbate Molinate		0.042'	1.4
i-n-octyl phthalate		0.017				0.059	5.6
Di-n-propyInitrosamine		0.40	14 170	Naphthalene 2-Naphthylamine	<i> </i>	0.52	NA
,4-Dioxane		12.0 0.92	13'	o-Nitroaniline		0.02	14'
Diphenylamine'		0.92	13'	p-Nitroaniline		0.028	28
Diphenylnitrosamine'		0.92	NA	Nitrobenzene		0.068	14
,2-Diphenylhydrazine Disulfoton		0.087	6.2	5-Nitro-o-toluidine		0.32	28
Dithiocarbamates (total)		0.017	28'	o-Nitrophenol		0.028'	13'
Indosulfan l		0.023	0.066	p-Nitrophenol		0.12	29
Indosulfan II		0.020	0.13	N-Nitrosodiethylamine		0.40	28
Endosulfan sulfate		0.029	0.13	N-Nitrosodimethylamine		0.40	2.3'
Endrin		0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17
Endrin aldehyde		0.025	0.13	N-Nitrosomethylethylamine	1	0.40	2.3
EPTC		0.042'	1.4	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate		0.34	33	N-Nitrosopiperidine	1	0.013	35
thyl benzene	SS 06/06/2023	0.057	10	N-Nitrosopyrrolidine		0.013	35
thyl cyanide/Propanenitrile	00 00/05/2020	0.24	360	Oxamyl	SS 06/06/2023	0.056'	0.28'
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'	1.4'
Ethylene oxide		0.12	NA	Pentachlorobenzene		0.055'	10'
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	1	0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride		0.0561	1.4'	Pentachloronitrobenzene	Î	0.055	4.8
Heptachlor	1	0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlorepoxide		0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene		0.055	5.6	Phenol	Î	0.039	6.2
Hexachlorocyclopentadiene	1	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	Phthalicanhydride		0.055	28 ¹
Hexachloroethane	1	0.055	30	Physostigmine		0.056	1.4
lexachloropropylene	1	0.035	30	Physostigmine salicylate		0.056	1.4'
ndeno(1,2,3-c,d)pyrene	1	0.0055	3.4	Promecarb		0.056'	1.4'
odomethane	1	0.19	65 .	Pronamide		0.093	1.5
sobutyl alcohol		5.6	170	Propham		0.056'	1.4'
Isodrin		0.021	0.066	Propoxur		0.056	1.4'
sosafrole		0.081	2.6	Prosulfocarb		0.0421	1.4'
Kepone		0.0011	0.13	Pyrene		0.067	8.2
Methacrylonitrile	1	0.24	84	Pyridine		0.014	16
Methanol		5.6	0.75 mg/l	Safrole		0.081	22
Methapyrilene	1	0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb	1	0.056'	1.4'	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	11	0.0055	15	1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane	1	0.057	6.0
4,4'-Methylene bis(2-							

Form B1 Page 2 of 3

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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		が	
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 TCLP⁴
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 TCLP⁴
Triallate		0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/ TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium	Í	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	S 06/06/2023	0.054	6.0	Cyanides(Total) S	5 06/06/2023	1.2	590
Trichloromonofluoromethane	1	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	1	0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead	Î	0.69	0.75 mg/l TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)	j	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/ TCLP
Triethylamine		0.081 ¹	1.5 ¹	Nickel	ĺ	3.98	5.0 mg/l TCLP
Tris-(2,3- Dibromopropyl)phosphate		0.11	0.10 ¹	Nickel	l 1	3.98	11 mg/l TCLP⁴
Vemolate		0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride	1	0.27	6.0	Selenium		0.82	5.7 mg/l TCLP⁵
Xylenes – mixed isomers (sum of o-,m-, and p-xylene		0.32	30	Silver		0.43	0.30 mg/l TCLP
or o-,m-, and p-xytene				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
	SS 06/06/202	β		Thallium		1.4	0.078 mg/ 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
		J	1				-020 warton

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.

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8. Desig	nated Facility Name and	Site Address						U.S. EPA ID) Number		
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Manifest Number: 023682405JJK

Shipment ID Number: 7340-08-0031

Shipment Date: 8/17/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	Net Wt (Ib)	Net Wt (Kg)
9b.1	122623	122623-11	PAD22C51254	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	11/17/2022	7.4	154	70	104	47
		Totals	1			7.4	154	71	104	47

A-36

sse print or type.		100 C		0.0	D	Dise	A Hanifest	Tracking M	lumber		
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Numb KY 889	0008982			mergency Respons 0-441-6333		4. Manifest	368	3240)7 J	JK
5. Generator's Name and Mailin Four Rivers Nucl	g Address	LLC (FRMP)	Gen	arator's Site Address - RNP for U.S	s (if different th	an mailing addre	ss))E)		
on behalf of FRN		, LLV, (FIXIO)		Paducah Gas				/)		
5511 Hobbs Roa)53			5511 Hobbs H			•			
Generator's Phone: 6. Transporter 1 Company Nan	8					5 5	U.S. EPAID	Number			
CAST Transpo	tation							COROO	000538	9	
7. Transporter 2 Company Nan	e						U.S. EPAID	Number			
8. Designated Facility Name an	d Site Address						U.S. EPA ID	Number			
EnergySolution	s Clive Dispo	sal Site-Tre	atment Fac	sility			0.0. LI XID	Number			
US 1-80 Exit 48		4028					L	JTD982	2598898	3	
Facility's Phone: 1-435-	384-0155										
9a. 9b. U.S. DOT Descript HM and Packing Group (if		hipping Name, Hazan	d Class, ID Number	r,	10. Conta No.		11. Total Quantity	12. Unit Wt.Nol.	13	. Waste Coo	les
		aterial low sner	the activity (SA-IN 7 (PCH		Туре	Quality	YYLIVOI.	5000	6007	000
RQ 10N 2912, W35te D008), Am-241, Fissile Excepted RQ ² UN 2912, Waste D008), Am-241 Fissile Excepted	Ри-239, Тс-99, Т				1	DM	57	к	0008	D007	000
a a a a a a a a a a a a a a a a a a a	Ри-239, Тс-99, Т				3	DM	71	к	0008	D007	000
Fissile Excepted				4. Names - 1997							+
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EM0004895, Including, bu with RCRA requirements.	t not limited to, charac	Conservation and Rec terizing waste, manifi	overy Act (RCRA) ge esting waste to off-	e co-generators pursua enerator activities on site facilities, packagi portation charges paid	behalf of both FRNP	and DOE for al	activities under	the scope of managing w	FRNP's Cont	ract DE-	
with RCRA regularements. 14. Special Handing Instruction 17 UCK: 1442 V ERG # 162 In Exclusive Use 3 15. GENERATOR'S/OFFERC marked and labeled/place	t not limited to, charac Transportation hereun is and Additional Inform an: 519 the event of Shipment, Se pris certifications rded, and are in all res	Conservation and Rec centraling wasto, manifi- dater is for DOE and the malion TTD: 034975 an RQ Relie are PCB Attact : Thereby declare the pects in proper condi	overy Act (RCRA) g, esting waste to off- a actual total transp 56 ease, call 1 chment for at the contents of th tion for transport a	enerator activities on isla facilities, packagi partation charges paid Accumulation -800-424-88 Additional In his consignment are faccording to applicable	behalf of both FRNP ng and labeling wast are to be reimburst Start Date: £ 02 ifo international and na	and DOE for al e for transport of by the Gove	I activities under , and storing and rnment pursuant If undelin Shipme a by the proper s	the scope of managing w to Contract PCB Sta /erable nt ID: 1	FRNP's Cont raste, In acco de-EM00048 Ift Date: , return 9750-01 ne, and are cl	2/8/2 to gen 1-0102 assified, pac	erato
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Manifest Number: 023682407 JJK

Shipment ID Number: 9750-01-0102

Shipment Date: 8/17/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	Accumulation Storage Date	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (Ib)	Net Wt (Kg)	Maximum Activity MBq
9b.1	130116	130116-01	PAD22C51252	PCB SOLIDS WITH CADMIUM, CHROMIUM, AND LEAD	2/8/2023	5/10/2023	7.4	176	80	126	57	0.36
9b.2	121650	121650-64	PAD23C60047	LEAD WASTE, BAGGED PAINT CHIPS, BAGGED PPE, BAGGED RAGS WASTE ECT.	N/A	5/3/2023	6.5	128	58	78	35	0.29
9b.2	121650	121650-65	PAD23C60522	LEAD WASTE, BAGGED PAINT CHIPS, BAGGED PPE, BAGGED RAGS WASTE ECT.	N/A	5/15/2023	6,5	84	38	34	15	0.26
9b.2	121650	121650-66	PAD23C60528	LEAD WASTE, BAGGED PAINT CHIPS, BAGGED PPE, BAGGED RAGS WASTE FCT	N/A	5/17/2023	6.5	94	43	44	20	0.27
		Totals	4				26.9	482	219	282	128	1.18

121650-64, 121650-65, and 120650-66 are PCB Bulk Product

PAD-WD-0598-R8-V13

121650-64/-65/-66/-67, 122617-15/-16/-17, 130116-01

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	623682407 JJK
Profile No.:	9758-61-6162	State Manifest No.:	AU

Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater X Wastewater Z
 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	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	5. HOW MUST THE WASTE BE MANAGED?	
REF # HAZARDOUS WASTE CODE(S)		DESCRIPTION		ENTER LETTER FROM BELOW
1	D006	Cadmium	\square	A
2	D007	Chromium		А
3	D008	Lead	\boxtimes	A
4	4	FO_07/03/2023		

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

Solution of the 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.

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. FRANKLIN OVERBY (Millate)

Signature(Affiliate)	Date: 2023.07.12.06:58:26 -05'00' Title	Waste Engineer	Date07/03/2023
		Form A1	

Page 1 of 2

121650-64/-65/-66/-67, 122617-15/-16/-17, 130116-01

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	Treatment Standard ¹		F001 through F005 spent solvent constituents and their associated USEPA hazardous	Treatment Standard		
USEPA hazardous waste code(s).	Wastewaters	Nonwastewaters	waste code(s).	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	1,4,2-Trichloroethane (F002)	0.054	6.0 ×	
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0 P	
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)	្នុំ ភ្នំ5.6	170	Xylenes (sum of o-, m-, and p- isomers) (F003)	4 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

Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	023682407 JJK
Profile No.:	9155-01-0102	State Manifest No.:	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 CHE	5. HOW MUST THE WASTE BE MANAGED? ENTER	
KEF#		DESCRIPTION	NONE	LETTER FROM FORM A1
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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 FRANKLIN OVERBY (Affiliate)

Digitally signed by FRANKLIN OVERBY (Affiliate) Date: 2023.07.12 07:00:26 -05'00'

Title Waste Engineer

Date 07/03/2023

Form A2 Page 1 of 2

AA

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	023682467JJK

Profile No .:

Profile No.:	9750-01-0102	State Manifest No.:	AU	
This form is a continu	uation from form A1 for a waste identified by mor	e than five USEPA waste code	e/subcategory groups.	This page by itself
IS NOT an acceptabl	le Land Disposal Notification and Certification Fo	orm.		

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.

	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CH	5. HOW MUST THE WASTE BE MANAGED? ENTER		
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION		NON	I ETTER FROM FORM A1
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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 FRANKLIN OVERBY (Affiliate)

Digitally signed by FRANKLIN OVERBY (Affiliate) Date: 2023.07.12 07:01:09 -05'00'

Title_ Waste Engineer Date 07/03/2023

Form A2 Page 2 of 2

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

Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	023682401322
	0200-01-0102		

Profile No .:

9750-01-0102

State Manifest No .:

NA

1

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	4	0.057	0.281
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	FO	0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.0621	NA ¹
Aldicarb sulfone	/	0.056 ¹	0.281	Chloromethane/Methyl chloride	07/03/2023	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	INA	o-Cresol		0.11	516 "
alpha-(BHC)		0.00014	0.066	m-Cresol		0.77	5.60
beta-(BHC)		0.00014	0.066	p-Cresol		0.77	5.60
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate		0.056 ¹	1.41
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	FQ	0.056 ¹	1.41	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	07/03/2023	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	FO	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	07/03/2023	0.21	6.0
Carbaryl		0.0061	0.141	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.41	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.0061	0.141	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	V	0.017	0.13
Chlorobenzene			6.0	Diethyl phthalate		0.20	28

Form B1 Page 1 of 3

PAD-WD-0598-R8-V13

121650-64/-65/-66/-67, 122617-15/-16/-17, 130116-01

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CONSTITUENT	HOW MUS THIS CONSTITU BE MANA	JENT	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW M THIS CONST BE MAN	UST	WW (mg/l) 0.13 ¹	NWW (mg/kg) unless noted
Chlorobenzilate	4		0.10	NA	p-Dimethylaminoazobenzene	4	4		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				NA
2,4-Dinitrophenol			0.12	160	Methyl parathion			0.014 0.056 ¹	4.6 1.4 ¹
2,4-Dinitrotoluene			0.32	140	Metolcarb			0.0561	1.4 ¹
2,6-Dinitrotoluene			0.55	28 28	Mexacarbate Molinate			0.058	1.4 ¹
Di-n-octyl phthalate Di-n-propylnitrosamine			0.40	14	Naphthalene			0.042	5.6
1.4-Dioxane			12.0	170	2-Naphthylamine			0.000	NA
Diphenylamine ³			0.92	131	o-Nitroaniline			0.32	141
Diphenylnitrosamine ³			0.92	13 ¹	p-Nitroaniline			0.028	28
1,2-Diphenylhydrazine			0.087	NA	Nitrobenzene	FO		0.068	14
Disulfoton			0.017	6.2	5-Nitro-o-toluidine			0.32	28
Dithiocarbamates (total)			0.028	281	o-Nitrophenol			0.0281	131
Endosulfan I			0.023	0.066	p-Nitrophenol			0.12	29
Endosulfan II			0.029	0.13	N-Nitrosodiethylamine	07	7/03/2023	0.40	28
Endosulfan sulfate		1	0.029	0.13	N-Nitrosodimethylamine			0.40	2.31
Endrin		1	0.0028	0.13	N-Nitroso-di-n-butylamine			0.40	17
Endrin aldehyde		1	0.025	0.13	N-Nitrosomethylethylamine			0.40	2.3
EPTC		1	0.0421	1.41	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		1	0.056 ¹	0.28 ¹
Ethyl ether			0.12	160	Parathion		1	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 '8 ;			0.042 ¹	1.41
Ethylene oxide			0.12	NA	Pentachlorobenzene			0.055 ¹	10 ¹
Famphur	FQ		0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)			0.000035	0.001
Fluoranthene	07/03	3/2023	0.068	3.4	PeCDFs(All Pentachlorodibenzofurans)			0.000035	0.001
Fluorene			0.059	3.4	Pentachloroethane			0.055	6.0
Formetanate hydrochloride			0.0561	1.41	Pentachloronitrobenzene			0.055	4.8
Heptachlor			0.0012	0.066	Pentachlorophenol	1, 1		0.089	7.4
Heptachlor epoxide			0.016	0.066	Phenacetin .	E		0.081	16
Hexachlorobenzene	1.03		0.055	10	Phenanthrene	1 33		0.059	5.6
Hexachlorobutadiene			0.055	5.6	Phenol	-		0.039	6.2
Hexachlorocyclopentadiene	1		0.057	2.4	Phorate	4		0.021	4.6
HxCDDs (All Hexachrorodibenzo-p-dioxins)			0.000063	0.001	Phthalic acid			0.055 ¹	28¹
HxCDFs (All Hexachlorodibenzofurans)			0.000063	0.001	Phthalic anhydride	F	Ö	0.055	28 ¹
Hexachloroethane	1		0.055	30	Physostigmine	r I		0.056 ¹	1.4 ¹
Hexachloropropylene			0.035	30	Physostigmine salicylate			0.056 ¹	1.41
Indeno(1,2,3-c,d)pyrene			0.0055	3.4	Promecarb	0	7/03/2023		1.41
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			0.0561	1.41
Isosafrole			0.081	2.6	Prosulfocarb	L		0.0421	1.4 ¹
Kepone	<u> </u>		0.0011	0.13	Pyrene	L		0.067	8.2
Methacrylonitrile			0.24	84	Pyridine			0.014	16
Methanol	⊢/		5.6	0.75 mg/l ¹	Safrole	L		0.081	22
Methapyrilene	ļ ļ		0.081	1.5	Silvex/2,4,5-TP	<u> </u>		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	4	0.056	6.0	INORGANIC CONSTITUENTS		Carrow Carrow	
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony	1	1.9	2.1 mg/l TCLP
Thiodicarb		0.0191	1.4 ¹	Antimony		1.9	1.15 mg/l TCLP⁴
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 TCLP⁴
Triallate		0.0421	1.4 ¹	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP⁴
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	FO	0.054	6.0	Chromium (Total)	- P	2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)	FO	2.77	0.60 mg/l TCLP ⁴
Trichloroethylene	07 03/2023	0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)	07/03/2023	0.86	30 ¹
2,4,5-Trichlorophenol	19: 	0.18	7.4	Fluoride	e f	35	NA⁴
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/l⁴ TCLP
1,2,3-Trichloropropane	·s'	0.85	30	Mercury (Nonwastewater from Retort)	ă'	NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2- trifluoroethane	4 . F .	0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine	10	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 TCLP⁴
Vernolate	1.	0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride	· * *	0.27	6.0	Selenium	1	0.82	5.7 mg/l TCLP⁵
Xylenes – mixed isomers (sum of o-,m-, and p-xylene	<u>↓</u>	0.32	30	Silver	:/	0.43	0.30 mg/l TCLP
••••••••••••••••••••••••••••••••••••				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide	Fg	14	NA ²
	FO			Thallium	07/03/2023	1.4	0.078 mg/l TCLP ¹
	07/03/2023			Thallium		1.4	0.20 mg/l TCLP ⁴
				Vanadium	/	4.3 ²	1.6 mg/l TCLP ²
				Zinc	$ \longrightarrow $	2.61	4.3 mg/l TCLP ²
	· · · · · · · · · · · · · · · · · · ·	1 1		Those constituents are not constit			

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.

Plas		int or type.					Form	n Approved	OMB No.	2050-0039
1	UNI	FORM HAZARDOUS 1. Generator ID Number		rgency Respons	e Phone	4. Manifest	Tracking No	umber	L	
		ASTE MANIFEST 지구 Construction States (Construction of Construction States) (Construction of Construction of				20 L	368		UU	JK
		r U.S. DOE		ucah Gase			IN (DOF)		
	5	511 Hobbs Road, Kevil, KY 42053		Hobbs Ro						
	Gene	ansporter 1 Company Name				U.S. EPA ID	Number			
	C	AST Transportation					R0000	05389		
	7. Tr	ansporter 2 Company Name				U.S. EPA ID	Number			
	8. De	esignated Facility Name and Site Address				U.S. EPA ID	Number			
		nergySolutions Clive Disposal Site-Treatment Facility					117	FD9825	00000	
		S I-80 Exit 49, Clive, UT 84029 _{ilys Phone:} 1-435-884-0155				т	U		80080	
	Facil 9a.	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,		10. Conta	iners	11. Total	12. Unit			
	HM	and Packing Group (if any))		No.	Туре	Quantity	WL/Vol.	13.	Waste Code	S
K	V	UN 1954, Waste, Compressed gas, flammable, n.o.s. (contains non- punctured aerosol cans), 2.1, "Umited quantity radioactive material"				20	10	D001	D003	
RAT	1	,, , ,, ,,		1	рм	38	ĸ			
NAN R	DA	UN 1954, Waste, Compressed gas, flammable, n.o.s. (contains non- punctured aerosol cans), 2.1, "Limited quantity radioactive material" NA 3052, Hazardous waste liquid, n.o.s. (contains PCB and Benzene), PCB, D016), III 3.	9,					D018	D021	D027
lĭ	na	PCB, D016), III		1	фм	69	ĸ	0000		
		3.						D032		
Ш		<u>6</u>					Ś			
11	-	4. · Four Rivers Nuclear Pártñership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-ge	nerators pursi	uant to a Co-Gen	erator agreeme	ant dated Septem	ber 13, 2017.	Under this w	greement,	
11		FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generat EM0004895, including; but not limited to, characterizing waste, manifesting waste to off-site fa	or activities or cilities, packar	t behalf of both F	RNP and DOE	for all activities us sport, and storing	nder the scop and managing	ng waste, in a	contract DE-	
11		with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation Special Handling Instructions and Additional Information								
П				rt Date: 06			CB Star		8/23/2	
		RG # 115, 171 / In the event of an RQ Release, call 1-80 edicated Service Shipment, See Attachment for Additiona		3802	1	f undelive Shipmer			-	ator
		GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consign	ment are fully			e by the proper s	hipping name	e, and are cla	ssified, pack	
		marked and labeled/placarded, and are in all respects in proper condition for transport according to Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Ac	knowledgmen	nt of Consent.			s. If export sh	ipment and I	am the Prim	ary
11	Gen	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantitierator's/Offeror's Printed/Typed Name	Signalure	or (b) (n'i am a sn	nall quanuty ge	inerator) is true.		Mo	nth Day	Year
ļ	L	Chelle Telfaire for FRNP	A.C.	filled	Ufc-	-			8117	23
E		nternational Shipments Import to U.S. Export	from U.S.		entiv/exit: wing U.S.:					
R	17.1	isporter signature (for exports only): Transporter Acknowledgment of Receipt of Materials		Date lea	mily 0.3.					
TRANSPORTER INT	Tran	sporter 1 Printed/Typed Name TGLII SPENCE sporter 2 Printed/Typed Name	Signature	lin	00	1 . 1		Mo	th Day	Year
NSP	Tran	sporter 2 Printed/Typed Name	Signature	ly	AR	ng		Mo		Year
TRA			·							
1	-	Discrepancy		THE R						
11	183.	Discrepancy Indication Space Quantity	IV	Residue		Partial R	ejection		Full Rej	ection
1	-			Manifest Referen	ce Number:	U.S. EPAID	Number			
E	18b.	Alternate Facility (or Generator)	2 202	3 🖌		U.S. EPAID	Number			
FAC	Faci	Kty's Phone:	N							
E	18c.	Signature of Alternate Facility (or Generator) BY:	K					M	onth Day I	Year
DESIGNATED	19.1	Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, d	isposal, and r	ecycling systems)					
Ĕ	1.	1,1,2,2	3.			4.				
1	20	1/132 Hi32 Designated Facility Owner or Operator: Certification of receipt of hezardous materials covered by the	e manifest exe	cept as noted in li	em 18a					
		ted/Typed Name	Signature	ant	1				onth Day	
+	AFor	m 8700-22 (Rev. 12-17) Previous editions are obsolete.			CICHAT	DEACH	TO EP		8 ZI	23 EVETER
EP	AFOR	וו טרטייבב (הפא, וביוו) רופאוטטל מטונטונל צופ טולטופופ.	A-46	DE	SIGNATE	D FACILIT	TUEP	ase-MA	MIFESI	STOLE

RT

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 023682410 JJK

Shipment ID Number: 9750-09-0036

Shipment Date: 8/17/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	Accumulation Storage Date	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	122610	122610-02	PAD22C50485	UNPUNCTURED AEROSOL CANS	N/A	4/19/2023	7	144	65	84	38
9b.2	122621	122621-01	PAD22C50116	LUBE OIL/PCB RINSATE COLLECTED FROM SITE GLASSES FROM TRANSFORMER DRAINING	8/23/2022	06/28/23	1.34	208	94	152	69
		Totals	2				8.34	352	159	236	107

- 13 1991 - 1991 - 199

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.

122621-01

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	0236824103	53K
Profile No.:	9750-09-0036	_ 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	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK N	IONE.	5. HOW MUST THE WASTE BE MANAGED?
NEF #	WASTE CODE(S)	DESCRIPTION	NONE	ENTER LETTER FROM BELOW
1	D018	TCLP Benzene		А
2	D021	TCLP Chlorobenzene		А
3	D027	TCLP 1,4-Dichlorobenzene		Α,
, 4	D032	TCLP Hexachlorobenzene		Α ΄

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

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

EU

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

"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.

Sign	JOSHUA NORMAN ature (Affiliate)	Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2023.07.06 09:59:52 -04'00'	Title	Waste Engineer	Date	07/06/2023

Form A1 Page 1 of 2

122621-01

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 WA	STE TREATMENT STANDARDS ²	and the second	er ar er pre		
F001 through F005 spent solvent constituents and their associated	Treatm	ent Standard ¹	F001 through F005 spent solvent constituents and their associated USEPA hazardous	Treatment Standard			
USEPA hazardous waste code(s).	Wastewaters	Nonwastewaters	waste code(s).	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 _i 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)	ς I. τε γ. 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

122621-01		
	LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)	

Generator Name:

Four Rivers Nuclear Partnership

Manifest Doc. No. :

023682410 TOK

Profile No.:

97.50-09-0036

State Manifest No .:

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.

	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	NONE.	5. HOW MUST THE WASTE BE MANAGED? ENTER
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	NONE	LETTER FROM FORM A1, PAGE 1
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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: 2023.07.06 09:58:45 -04'00'

Waste Engineer Title

07/06/2023 Date

Form A2 Page 1 of 2

122621-01	LA	ND DISPOSAL NOTIFICATION	AND CERTIFICATION	(PHASE IV)						
Generator N	lame: Four R	ivers Nuclear Partnership	Manifest Doc. No. :	02368	2410 23K					
Profile No.:	- 8-	750-09-0036	State Manifest No.:		A					
This form is <u>IS NOT</u> an	a continuation fro	m form A1 for a waste identified by mor Disposal Notification and Certification Fo	re than five USEPA waste coo orm.	de/subcategory	groups. This page by itself					
For each w does not ha	aste number, iden ave a subcategory.	a 1) to identify ALL USEPA hazardous w tify the corresponding subcategory (writ). Also identify in column 5 how the wa rlying hazardous constituent(s) if application	e in the description from 40 C ste must be managed. Spen	CFR 268.40, or o t solvents are lis	check NONE if the waste					
	An and a stand of the	5, HOW MUST THE WASTE BE MANAGED? ENTER								
REF #	HAZARDOUS WASTE CODE(S)	DESCRIP	DESCRIPTION NONE LETTER FROM FORM							

	WASTE CODE(S)	DESCRIPTION	NONE	PAGE 1
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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) Digitally signed by JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) signature_JOSHUA NORMAN (Affiliate)

Waste Engineer Title

Form A2 Page 2 of 2

07/06/2023 Date_

CP3-WM-0437-F04 FR2

T the failed in

122621-01

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

Generator Name: Four Rivers Nuclear Partnership

Manifest Doc. No. :

023682410 JJK NP

Profile No.:

Q. 758-09-0036

_ State Manifest No.:

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	0.281	Chloromethane/Methyl chloride		0.19	30
Aldrin	+	0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl	+	0.021	NA	2-Chlorophenol		0.044	5.7
Aniline	+	0.13	14	3-Chloropropylene		0.036	30
Anthracene	+	0.059	3.4	Chrysene		0.059	3.4
Aramite	+	0.36	NA NA	o-Cresol		0.000	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)		0.00014	0.066	m-Cumenyl methylcarbamate		0.0561	1.41
		0.023	0.066	Cyclohexanone	·····	0.36	0.75 mg/l ¹
gamma-(BHC) Barban		0.0561	1.41	o,p'-DDD		0.023	0.087
Bendiocarb		0.0561	1.41	p,p'-DDD		0.023	0.087
		0.056 ¹	1.41	o,p'-DDE		0.023	0.087
Benomyl			1.4	p,p'-DDE		0.031	0.087
Benzene		0.14 0.059	3.4			0.0039	0.087
Benz(a)anthracene		0.059 0.055 ¹	6.0 ¹	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055	6.8	p,p'-DDT Dibenz(a,h)anthracene	·	0.055	8.2
Denzo(D)ndorantinene			6.8			0.055	NA
Benzo(k)fluoranthene ³		0.11	1.8	Dibenz(a,e)pyrene 1,2-Dibromo-3-chloropropane		0.001	15
Benzo (g,h,i)perylene	+	0.0055	1.8	1.2-Dibromomethane/		0.11	10
Benzo(a)pyrene		0.061	3.4	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	1.41	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)	QN	0.0033	0.26	trans-1,3-Dichloropropylene	QN	0.036	18
p-Chloroaniline	07/06/2023	0.46	16	Dieldrin	07/06/2023	0.017	0.13
Chlorobenzene		0.057	6.0	Diethyl phthalate			28

Form B1 Page 1 of 3

122621-01

CONSTITUENT	THIS CONS	MUST STITUEN ANAGE		WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW N THIS CONS ⁻ BE MA	TITUEN		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			T	0.12	160	Methyl parathion			T	0.014	4.6
2,4-Dinitrotoluene				0.32	140	Metolcarb			1	0.056 ¹	1.4 ¹
2,6-Dinitrotoluene			1	0.55	28	Mexacarbate			1	0.056 ¹	1.4 ¹
Di-n-octyl phthalate			1	0.017	28	Molinate				0.042 ¹	1.41
Di-n-propylnitrosamine				0.40	14	Naphthalene			1	0.059	5.6
1,4-Dioxane				12.0	170	2-Naphthylamine				0.52	NA
Diphenylamine ³				0.92	13 ¹	o-Nitroaniline				0.271	14 ¹
DiphenyInitrosamine ³				0.92	131	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				0.0281	13 ¹
Endosulfan I				0.023	0.066	p-Nitrophenol				0.028	29
Endosulfan II				0.023	0.000	N-Nitrosodiethylamine				0.12	29
Endosulfan sulfate				0.029	0.13	N-Nitrosodimethylamine				0.40	28 2.3 ¹
Endrin				0.029	0.13			·			
Endrin aldehyde				0.0028	0.13	N-Nitroso-di-n-butylamine N-Nitrosomethylethylamine				0.40	17
EPTC										0.40	2.3
		15		0.0421	1.4 ¹	N-Nitrosomorpholine		17		0.40	2.3
Ethyl acetate Ethyl benzene				0.34	33	N-Nitrosopiperidine				0.013	35
				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			5	0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)				0.10	10
Ethyl methacrylate		1. A		0.14	160	Pebulate		8		0.042 ¹	1.4 ¹
Ethylene oxide		2.3		0.12	NA	Pentachlorobenzene		-		0.055 ¹	10 ¹
Famphur				0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		N.		0.000035	0.001
Fluoranthene		1		0.068	3.4	PeCDFs(All Pentachlorodibenzofurans)		1		0.000035	0.001
Fluorene				0.059	3.4	Pentachloroethane		1		0.055	6.0
Formetanate hydrochloride				0.0561	1.41	Pentachloronitrobenzene				0.055	4.8
Heptachlor				0.0012	0.066	Pentachlorophenol				0.089	7.4
Heptachlor epoxide				0.016	0.066	Phenacetin				0.089	16
Texachlorobenzene				0.055	10	Phenanthrene				0.059	5.6
Hexachlorobutadiene		1				Phenol					
		1		0.055	5.6	Phenol				0.039	6.2
Hexachlorocyclopentadiene HxCDDs (All				0.000063	0.001	Phorate Phthalic acid				0.021 0.055 ¹	4.6 28 ¹
Hexachrorodibenzo-p-dioxins) HxCDFs (All				0.000063	0.001	Phthalic anhydride				0.055	28 ¹
Hexachlorodibenzofurans) Hexachloroethane				CARLONCE, CREW MENT COMPANY							
				0.055	30	Physostigmine Dhysostigmine a cliquidate				0.056 ¹	1.41
Hexachloropropylene				0.035	30	Physostigmine salicylate				0.0561	1.41
ndeno(1,2,3-c,d)pyrene	├ ── <i> </i>			0.0055	3.4	Promecarb				0.056 ¹	1.41
odomethane				0.19	65	Pronamide				0.093	1.5
sobutyl alcohol	-			5.6	170	Propham				0.0561	1.4 ¹
sodrin				0.021	0.066	Propoxur				0.056 ¹	1.4 ¹
sosafrole				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	1.41	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	V		0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)	QN			0.000063	0.001
3-Methylcholanthrene	10	7/06/202	23	0.0055	15	1,1,1,2-Tetrachloroethane		/06/202	23	0.057	6.0
4,4'-Methylene bis(2-											
chloroaniline)	V		-	0.50	30	1,1,2,2-Tetrachloroethane	¥			0.057	6.0

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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	P	0.056	6.0	INORGANIC CONSTITUENTS			0.55
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
Triallate		0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/
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
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/
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	QN	0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of o-,m-, and p-xylene	07/06/2023	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
	QN			Thallium	an	1.4	0.20 mg/l TCLP ⁴
	07/06/2023			Vanadium	07/06/2023	4.3 ²	1.6 mg/l TCLP ²
				Zinc	¥>	2.61	4.3 mg/l

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

Plea	se print	or type.											OMB No. 2	2050-0039	
1	UNIFO	ORM HAZARDOUS	1. Generator ID		0000000	And a second second							8 .I.	К	
1		erator's Name and Mailin	ng Address			J	Generator	's Site Address	(if different the	an mailing addres	is)				
		Four Rive	rs Nuclear f	Partnership, L	LC, (FRNP) for l	J.S. V 42053								2053	
						0 12000	- Cepa	·	-11C1 83 (E	02)00111	102021			2000	
	Genera 6. Tran	sporter 1 Company Nam	10							U.S. EPA ID N	lumber				
		CAST INTER	entation-					36 M (1 1 1 1		U.S. EPAID N	umber C	:OR000	005389	 	
	r. tran	sponer z Company Man	10							Ĺ					
	8. Desi	-								U.S. EPAID N	lumber				
		~ .			te- Waste Treal	tment Fa	cility					170000	choona		
	Facility											10802	1999690		
	9a.	9b. U.S. DOT Descript	ion (including Pro		Hazard Class, ID Number	6	-		1	11. Total	12. Unit	13. \	Vaste Code	5	
	Interaction Inc. Type Quantity WLAK Interactions With and Packag Group (famy) No. Type Quantity WLAK Interactions With and Packag Group (famy) No. Type Quantity WLAK Interactions With and Packag Group (famy) No. Type Quantity WLAK Interactions With and Packag Group (famy) Interactions Interactions Interactions Interactions With and Packag Group (famy) Interactions Interactions Interactions Interactions With an Interactions Interactions Interactions Interactions Interactions Interactions Interactions Interactions Interactions Interactions Interactions Interactions Interactions Interactions <th></th>														
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	14. Sp				349756 Acr	inculation	Start D	ate: N/A	PCB	Start Date	: 10/2	12022			
													rator		
		Exclusive Us	e Shipmer	nt, See PCE	3 Attachment fo	r Additio	nalIn	0		Shipm	ent ID:	9750-9	0-0003	and	
	n	arked and labeled/placa	arded, and are in	all respects in prope	er condition for transport ac	cording to app	licable Inter	mational and na	tional governm	e by the proper si nental regulations	. If export sh	ipment and I	am the Prim	ary	
	1	certify that the waste mi	nimization slatem	ent identified in 40	n to the terms of the attach CFR 262.27(a) (if I am a la	rge quantity ge	nerator) or	(b) (if I am a sm	ali quantity ge	nerator) is true.					
	Gener	ator's/Offeror's Printed/T	yped Name	Same	OF TONE	Si D I	Rh.D	((00		-				Year	
*				Pr. 1	UT TAN	Export from	US		1			0		105	
EN1			orts only):				0.0.								
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HO di		796	er s	PINC	P		-	Ma	pire	1				7 27 Year	
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E A	18. Dis	screpancy		2											
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					K		Ma	anifest Referen	ce Number:	5					
È	18b. A	ternate Facility (or Gene	erator)		1	AUG	22	2023	U	U.S. EPA ID	Number				
FACIL	Facility	's Phone:				7	10	2020							
回			cility (or Generato	t)	BY:	10	K					~ Mo	nth Day	y Year	
GNA	10 Ha	Tardour Wasts Pepert	Innanament Mat	had Codes (i.e. cor	tos for hazardous waste In	estment disno	sal and rec	volino systems							
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1	00.5	H132	L Opportune Com	blightion of model	hazardous malarials	and hy the me	nifestove	nt as noted in II	em 18a						
		/Typed Name		-	A HOTALOOAP WAIGUAR COA				1			Mo	-		
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EP.	Form	8700-22 (Rev. 12-17) Previous edi	uons are obsolete	θ.	A	A-55	DE	SIGNATE	D FACILITY	TUEP	a's e-ma	NIFESI	STOLE	

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Additional Information Attachment, Page 2 of 2

Manifest Number: 023682418JJK

Shipment ID Number: 9750-90-0006

Shipment Date: 8/17/2023

	JHWM lection	RFD	Container / WASTE ID	Barcode	Description	Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	Net Wt (lb)	Net Wt (Kg)
	9b.1	130123	130123-01	PAD23C60156	PCB LIGHT BALLASTS, CAPACITORS, TRANSFORMERS, ETC.	10/27/2022	3.8	252	114	222	101
_	-		Totals	1			3.8	252	115	222	101

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.

Plas	se pri	int or type.									Form	Approved.	OMB No. 2	050-0039
1	UNI	FORM HAZARDOUS	1. Generator JD Num F. Y 858U	88992		1 2. Page flot	270	5-441-1	6333	02	Tracking Nur 368		<u> </u>	
		nerator's Name and Mailin	-							tnership (F				
	F	our Rivers Mudea	ir Partnership, I	LLC, (FRNP)			Four	Rivers Nu	Idear Par	rgy (DOE),	relat.) tot			
	F	nr.U.S. Departme	nt of Energy (D)OE)			U.S.	Hobbs R	d Kavil k	(V 42053				
	6. Ha	nr U.S. Departme relors Phone:	10 evil, KY, 420	58			0011	HUUUSIN	u, neva, r	U.S. EPAID	Number	05000		
		AGT Transport									ORODOD	00208		
	7. Tra	ansporter 2 Company Nam	10 .							U.S. EPAID	Number			
	8 De	stonated Facility Name an	nd Site Address		tinto E					U.S. EPA ID	Number			
	E	signated Facility Name an Frengy Solutions	Clive Dispo	sal Site Buik v	vaste ra	acanty								
	L	JS 1-30 Exit 49,	Clive, UI 84	1058						. U	TD9825	88888		
	Facil	ity's Phone.	84-0155								· · · · · · · · · · · · · · · · · · ·			
	9a.	9b. U.S. DOT Descript	ion (including Proper S any))	hipping Name, Hazard	Class, ID Num	ber,	_ }	10. Conta	-	11. Total Quantity	12. Unit Wt.Nol.	13. V	Vaste Codes	6
1	HM	237, Tc-93, Th-23	ctive material, in	w specific activit	Flecha F	7, (PCB), N	ų.	No. 7	Туре	2148	K	1		
SR	RQ	237, To-93, Th-23	0, U-234, Sollov	Oxide, 2000 Miby	1 19911C L	Adopted		1	Civi	2140	1			
RA						A TATA TA								
GENERATOR	RQ	AUN-2912, Radioa Th-230, Solid/Ox	iotive material, li Ida 28 MBa Etc	ow specific activit	lý (Lorel).	7, (PGD), 10		1	CM	420	ĸ			
		(n-250, 5010/08	tite, op mod't is	one Excepted							1			
	00	UN 2512, Radio	active material d	ow specific activi	IV (LSA-I)	7, (PCB), TO	c-99,					· ji		
۱F	KU	Solid/Oxide, 257	7 MBq, Flaslie E	xcepted				1	CM	2458	ĸ			
				L					4					
		4.												
	14.5	Special, Handling Instruction	ms and Additional Prot	mation		Accumula		art Date: 1	N/A		PCB Sta	t Date:	7/14/2	023
11		ERG # 182 In	the event of	an RQ Relea	se, call '	1-800-424-	-8802				iverable, ent ID: 7			
11		Exclusive Use	Shipment, S	ee Additional	Attachm	ient for Ad	Iditiona	Info		Shipme	entiu. 7	340-00	-0032	
	15.	GENERATOR'S/OFFER	OR'S CERTIFICATION	: I hereby declare that	the contents of	of this constanmen	nt are fully a	nd accurately of	described abo	ve by the proper	shipping name	, and are clas	sified, pack	aged,
		marked and labeled/place Exporter, I certify that the	arded, and are in all re	spects In proper condition	on for transpor	rt according to app	plicable inte	mational and n	ational govern	mental regulation	is. If export shi	pment and I	am the Prim	ary
		I certify that the waste mi	inimization statement i	dentified in 40 CFR 262	.27(a) (if I am	a large quantity ge	enerator) or	(b) (if I am a sr	mall quantity g	enerator) is true.				
		erator's/Offeror's Printed/T		Dohnit	00	CO 10	Signatural	000	COMP	11/		Mor	The Day	Year
L*		International Shipments		DEIUIT	OF	INNE	d	ule	Mun	<u>vy</u>		U	7/10	a_3
INT'I	Tra	nsporter signature (for exp	Import to	U.S.		Export from	n U.S.		entry/exit:/ aving U.S.:	/				
		Transporter Acknowledgme		als										
TRANSPORTER	Tran	sporter 1 Printed/Typed N	DHBA			S	Signature				7	Mor	th Day	Year
dsi	L	.OUIS PAL	-				Signature	e				Mo	th Day	Year
NAG.						, I	Signature					1		1
TA		Discrepancy				l.								
	18a	Discrepancy Indication S	ipace 🗌 Quan	tity 🔲	Тур			Residue		Partial F	Rejection		Full Re	ection
					E	CEI		En						
5	185	Alternate Facility (or Gen	ierator)				M	anifest Referen	nce Number:	U.S. EPA I	D Number			
		ar along to be a start of the second			SE	EP 2 1	2023							
EA.	Fac	lity's Phone:			-									
	180	b. Signature of Alternate Fa	acility (or Generator)	D	×.	delt						M	onth Da I	y Year
DESIGNATED EACILIT	10	Hazardous Waste Report	Management Method		Y:	te treatment disc	osal, and re	cycling system	s)					
NEC I	19.		management mealog	2.		3	3.	-, and of a com	-/	4.				
		H132			32			H13						
		Designated Facility Owne nted/Typed Name	er or Operator: Certifica	tion of receipt of hazard	lous materials		Signature	apt as noted in	Item 18a			M	onth Da	y Year
			Funds			, i	1	mt	6	-			9 12	
E	PAFo	A b crł Irm 8700-22 (Rev. 12-1	7) Previous edition	s are obsolete.		l		-	ESIGNAT	ED FACILIT	Y TO EP	A's e-MA		
						Α	A-57							

PCB and Additional Information Attachment, Page 2 of 3

Manifest Number: 023682433JJK Shipment ID Number: 7340-08-0032

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date To Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	Net Wt (Ib)	Net Wt (Kg)	Maximum Activity MBq
9b.1	130188	130188-01	PAD23C60561	PCB CONTAMINATED MISCELLANEOUS	7/14/2023	70	1282	582	514	233	13
9b.1	130188	130188-02		PCB CONTAMINATED MISCELLANEOUS	7/21/2023	54	1282	582	514	233	1188
9b.1	130188	130188-03		PCB CONTAMINATED MISCELLANEOUS	7/21/2023	52	910	413	142	64	119
9b.1	130188	130188-04	PAD23C60564	PCB CONTAMINATED MISCELLANEOUS	7/22/2023	88	1154	523	388	176	194
9b.1	130188	130188-05	PAD23C60565	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND	7/22/2023	66	2256	1023	1468	666	145
9b.1	130188	130188-06		PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND	7/22/2023	85	1306	592	540	245	187
9b.1	130188	130188-07		PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND	8/4/2023	70	2160	980	1166	529	154
9b.2	130188	130188-17	PAD23C61519	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	8/11/2023	17	926	420	926	420	38
9b.3	130188	130188-19	PAD23C61660	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	8/8/2023	1171	10400	4717	5420	2458	2577
	Totals					1673	2167	6 983	2		461

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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.

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J WASTE MANIFEST NY 8890008982 5	of 3. Emerge 1-270-4			4. Manifes	st Tracking	rm Approve Number 324(<u>o. 2050-</u> JJK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) for U.S.				han mailing addr	ess)			JAIV
Department of Energy (DOE) 5511 Hobbs Road, Kevil, KY Generator's Phone: 42053	T		FRNP for Paduc	the U.S. D ah Gaseou:	epartme s Diffusi	on Plant		
6. Transporter 1 Company Name			5511	-lobbs Rd U.S. EPA ID	Kevil K	¥ 47052	1	
Hittman Transport Services				U.S. EPA ID	Number	- 1.00 CTC		
7. Transporter 2 Company Name				U.S. EPA ID	<u>TNRÖ(</u> Number	100346	98	
8. Design Hard Engly Book #105/19/20/19/20 Disposal Site- Waste Treatment F	acility			U.S. EPA ID	Number			
US I-80 Exit 49, Clive, UT 84029 1-435-884-0155 Facility's Phone:	5		<i>\$</i>	1			325988	98
9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,		10. Cont	alnom		1	1		
HM I and Packing Group (if any)		No.	Type	11. Total Quantity	12. Unit WL/Vol.	13	. Waste Coo	les
1.UN 2913, Waste, Radioactive material, surface contaminated obje RQ (SCO-II), 7, (PCB,D008), Np-237, To-99, Th-230, U-234, Solid/O: 10.71 MBg, Fissile Excepted	xide,	1	DM	19	к	D006	0007	0008
R(2UN 2912, Waste, Radioactive material, low specific activity (LSA-I) (PCB, D009), Am-241, Np-237, Pt-239, To 09, Theorem, and	.7,	2	рм	83	к	Dada	DODS	Dana
RONA 3077, Hazardous waste, solid, n.o.s. (Barium, Salasium), o. s.	G III	<i></i>				D011 -		
(D010) Four Rivers Nuclear Partnership, LLC (FR/P) and the U.S. Department of Energy (D0E) are co-generators pu FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, pack with RCRA requirements. Transportation hereunder is for D0E and the actual total transportation charges p	rsuant to a Co	1 Generator	РМ	17		D005		
with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges provided in the requirements. Transportation hereunder is for DOE and the actual total transportation charges provided in the requirements. Transportation hereunder is for DOE and the actual total transportation charges provided in the requirements. Transportation hereunder is for DOE and the actual total transportation charges provided in the requirements. Transportation hereunder is for DOE and the actual total transportation charges provided in the requirements. Transportation hereunder is for DOE and the actual total transportation charges provided in the requirements. The requirements of the requirement of an RQ Release, call 1–80. 14. Spectrum Use Shipment, See Attachment for Additional Information marked and labeled/placarded, and are in all respects in proper condition for transport according to applic exporter. I certify that the contents of this consignment conform to the terms of the attached EPAAcknown Leertify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator's/Offeror's Printed/Typed Name	ttion Start 30-424-8 o are fully and ac able internatio	Date: 802 curately de naland nat	7/21/202: sscribed above l	BC B PC If undelive <u>Shipmen</u> by the proper shi ntal regulations. I	:04// B Start erable, t ID: 5	EM0004895. 6/24 Date: N return	★ 7/2 to gene	erator
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Transporter signature (for exports only):	.S.	Port of en Date leavi				<u></u>		
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3b. Alternate Facility (or Generator)	Manifest	Reference		U.S. EPA ID Nur	nber			10 00
scility's Phone: sc. Signature of Alternate Facility (or Generator)		¥				Mont	h Day	Year
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. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifes	st except as no	ted in Item	18a				· · · · · ·	
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rm 8700-22 (Rev. 12-17) Previous editions are obsolete.								l

Additional Information Attachment, Page 2 of 2

Manifest Number: 023682462JJK

Shipment ID Number: 9750-01-0103

Shipment Date: 11/2/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Storage Date	PCB Start Date	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	Net Wt (Ib)	Net Wt (Kg)
9b.1	121650	121650-68	PAD23C60926	LEAD WASTE, BAGGED PAINT CHIPS, BAGGED PPE, BAGGED RAGS WASTE ECT.	8/11/2023	N/A	6	92	42	42	19
9b.2	130233	130233-01	PAD23C60567	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT CONTAINER CIRCUIT BOARDS, CAPACITORS, ETC.	7/21/2023	7/21/2023	6	158	72	108	49
9b.2	130233	130233-02	PAD23C60569	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT CONTAINER CIRCUIT BOARDS, CAPACITORS, ETC	7/21/2023	7/21/2023	4.74	126	57	76	34
9b.3	122234	122234-20	PAD23C60765	ABSORBENTS FROM LUBE OIL THAT WAS GENERATED IN SUPPORT OF PGDP	05/15/23	N/A	0.6	88	40	38	17
		Totals	4				17.34	464	211	264	120

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.

Water Edit Numeres CV 35882 4664 JJK Convention Name COV 35882 4664 JJK Convention Name Coversion Name Fight Path	ase print or type.							Form	Approved.	OMB No.	2050-0039
	UNIFORM HAZARDOUS WASTE MANIFEST		890008982				4. Manifest	Tracking Nu	246	Δ.Ι.	IK
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Control of Comparison Name Control of Control											
Hittman Transport Services TINR000034686 Userport 2 Company Name U.S. EPA D Number U.S. E	Generator's Phone:		10			551	l Hobbs Rd	, Kevil,	KY 42053	3	
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Additional Information Attachment, Page 2 of 2

Manifest Number: 023682464JJK

Shipment ID Number: 9750-09-0037

Shipment Date: 11/2/2023

UHV Sect		Container / WASTE ID	Barcode	Description	Accumulation Storage Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	Net Wt (Ib)	Net Wt (Kg)
9b	1 130099	130099-01	PAD22C51251	PCB LIQUIDS WITH CADMIUM, CHROMIUM, AND LEAD	10/03/23	12/28/2022	6.15	436	198	396	180
9b	.2 122731	122731-01	PAD22C50667	USED OIL FROM NON-PROCESS EQUIPMENT	8/31/2023	N/A	6.68	432	196	373	169
9b	2 121896	121896-08	PAD23C60114	USED OIL	08/31/23	N/A ·	7	402	182	349	158
		Totals	3				19.83	1270	576	1118	507

A-62

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.

· Super

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	0236824643316
Profile No.:	9750-09-0037	State Manifest No.:	NĄ

- 1 ls this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater 🛛 Wastewater 🗆
- Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the 2 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 CHECKN	5. HOW MUST THE WASTE BE MANAGED?	
		DESCRIPTION	NONE	ENTER LETTER FROM BELOW
1	D006	TCLP Cadmium		А
2	D007	TCLP Chromium		A
3	D008	TCLP Lead		A
4	4	FO 10/10/2023		

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: \Box

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 b refer to those state citations instead of the 40 CFR citations.

A.	RESTRICTE	WASTE RE	EQUIRESTREATMEN	IT

- 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."
- RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS **B.1**

6 "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 inquirie of these individuals interested to support the treatment technology and operation of the treatment process used to support this certification. 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 aw are that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

- GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS **B.3** "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 inquity 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 nonw astewater 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."

DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS **B.4** "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."

RESTRICTED WASTE CAN BELAND DISPOSED WITHOUT FURTHER TREATMENT D. "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 aw are that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

- WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS E.
- 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 FRANKLIN OVERBY (Affiliate) Digitally signed by FRANKLIN OVERBY (Affiliate) Date: 2023.10.11 09:40:02 -05'00'	Title	Waste Engineer	Date	10/10/2023
	ind_		Duic_	10/10/2020

Form A1 Page 1 of 2

Page 1 of 7

LAND SPOSAL NOTIFICATION AND CERTIN ATION (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.

		SOLVENTWA	STE TREATMENT STANDARDS ²			
F001 through F005spent solvent constituents and their associated	Treatment Standard ¹		F001 through F005spent solvent constituents and their associated USEPA hazardous	Treatment Standard ¹		
USEPA hazardous waste code(s).	Wastewaters	Nonwastewaters	waste code(s).	Wastewaters	Nonwastewaters	
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP) ³	
Benzene (F005)	0.14	10	Methy lene chloride (F001, F002)	0.089	30	
n-Butanol (n-buty l alcohol) (F003)	5.6	2.6	Methylethylketone (F005)	0.28	36	
Carbon disulfide (F005)	3.8	4.8 (TCLP) ³	Methy lisobutyl 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) follow ed by CARBN}	INCIN	
o-Cresol (F004)	0.11	5.6	Py ridine (F005)	0.014	16	
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethy lene (F001, F002)	0.056	6.0	
Cy clohexanone (F003)	0.36	0.75 (TCLP) ³	Toluene (F005)	0.080	10	
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichlαoethane (F001, F002)	0.054	6.0	
2-Ethoxyethanol (F005) also called ethy lene gly col, 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	
lsobutanol (Isobuty I Alcohol) (F005)	5.6	_{.ਗ} 170	Xylenes (sumofo-, m-, and p- isomers) (F003)	0.32	a (_e 30	

¹ All spent solv ent 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

	LAI		D CERTIL JATION (PHASE IV)				
Generator Nan	me: US Dep	partment of Energy (Paducah Site)	Manifest Doc. No. :	0236	32464JJK			
Profile No .:	9-	150-09-0037	State Manifest No.:	^	AC			
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	4. SUBCATE ENTER THE SUBCATEGORY DESCRIPTION. IF N	the second s	HECKNONE.	5. HOW MUST THE WASTE BE MANAGED? ENTER			
	WASTE CODE(S)	DESCRIPTION		NONE	LETTER FROM FORM A1, PAGE 1			
5 🗲								

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Date <u>10/10/2023</u>

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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 FRANKLIN OVERBY (Affiliate)	Digitally signed by FRANKLIN OVERBY (Affiliate) Date: 2023.10.11 09:40:46 -05'00'

FO

10/10/20223

Title Waste Engineer

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Form A2 Page 1 of 2

. 2

Page 3 of 7

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			PHASE IV) 023682464UK
Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	02360016-10-30-23
Profile No.:	9750-09-0037	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 <u>IS NOT</u> 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	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	NONE.	5. HOW MUST THE WASTE BE MANAGED? ENTER
KEF#	WASTE CODE(S)	DESCRIPTION	NONE	LETTER FROM FORM A1, PAGE 1
36	< 			
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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 FRANKLIN OVERBY (Affiliate)

Title Waste Engineer

Digitally signed by FRANKLIN OVERBY (Affiliate) Date: 2023.10.11 09:42:04 -05'00'

Date <u>10/10/2023</u>

Form A2 Page 2 of 2 i ii

	F039, DERLYING HAZARDOUS		
Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	023682464JJK
Profile No.:	9750-69-6637	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 3.4	CONSTITUENT	HOW M THIS CONST BE MAN		WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene			0.059		2-Chloro-1,3-butadiene	4		0.057	0.28'
Acenapthene			0.059	3.4	Chlorodibromomethane			0.057	15
Acetone			0.28	160	Chloroethane			0.27	6.0
Acetonitrile			5.6	38'	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'	23'	p-Chloro-m-cresol			0.018	14
Acrylonitrile			0.24	84	2-Chloroethyl vinyl ether			0.062'	NA '
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		l	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	1.4'
gamma-(BHC)			0.0017	0.066	Cyclohexanone			0.36	0.75 mg/l ⁺
Barban	2		0.0561	1.4'	o,p'-DDD			0.023	0.087
Bendiocarb			0.056'	1.4'	p,p'-DDD			0.023	0.087
Benomyl			0.056'	1.4'	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'	6.0'	p,p'-DDT			0.0039	0.087
Benzo(b)fluoranthene ³	FO 10	10/2023	0.11	6.8	Dibenz(a,h)anthracene	FO 10	/10/2023	0.055	8.2
Benzo(k)fluoranthene°			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	<u> </u>		0.055	15	o-Dichlorobenzene			0.088	6.0
n-Butyl alcohol			5.6	2.6	p-Dichlorobenzene			0.090	6.0
Butylate	1		0.042	1.4'	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'	0.14'	1,1-Dichloroethylene			0.025	6.0
Carbenzadim			0.056'	1.4'	trans-1,2-Dichloroethylene			0.023	30
Carbofuran			0.006'	0.14'	2,4-Dichlorophenol			0.034	14
Carbofuran phenol			0.056'	1.4'	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	1		0.028'	1.4'	cis-1,3-Dichloropropylene			0.036	18
Chlordane (alpha and gamma isomers)	1		0.0033	0.26	trans-1,3-Dichloropropylene			0.036	18
p-Chloroanilíne			0.46	16	Dieldrin			0.017	0.13
Chlorobenzene			0.40	6.0	Diethyl phthalate			0.20	28

Page 5 of 7

CONSTITUENT		JST ITUENT NAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	THIS	MUST STITUENT ANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate	+	1	0.10	NA	p-Dimethylaminoazobenzene	+		0.13'	NA
2,4-Dimethylphenol			0.036	14	Methylenechloride			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'	1.4'
2.6-Dinitrotoluene			0.55	28	Mexacarbate			0.056'	1.4'
A REAL AND A REAL PROPERTY OF THE APPROXIMATELY AND A REAL PROPERTY.			0.017	28	Molinate	ļ		0.030	1.4
Di-n-octyl phthalate									
Di-n-propyInitrosamine			0.40	14	Naphthalene	FO	10/10/2023	0.059	5.6
1,4-Dioxane			12.0	170	2-Naphthylamine			0.52	NA
Diphenylamine°			0.92	13'	o-Nitroaniline			0.27'	14'
DiphenyInitrosamine°			0.92	13'	p-Nitroaniline			0.028	28
1,2-Diphenylhydrazine		1	0.087	NA	Nitrobenzene			0.068	14
Disulfoton		l	0.017	6.2	5-Nitro-o-toluidine			0.32	28
Dithiocarbamates(total)			0.028	28'	o-Nitrophenol			0.028'	13'
Endosulfan I			0.023	0.066	p-Nitrophenol			0.020	29
Endosulfan II			0.029	0.13	N-Nitrosodiethylamine			0.40	28
Endosulfan sulfate			0.029	0.13	N-Nitrosodimethylamine			0.40	2.31
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	1.4'	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	<u> </u>		0.056'	0.28'
Ethyl ether	FO 10	/10/2023	0.12	160	Parathion		-	0.014	4.6
Bis(2-Ethylhexyl)phthalate		/10/2023	0.12	28	Total PCBs (sum of all PCB	A		0.014	10
					isomers or all Aroclors)	L			
Ethyl methacrylate			0.14	160	Pebulate			0.042'	1.4'
Ethylene oxide			0.12	NA	Pentachlorobenzene			0.055'	10'
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'	1.4'	Pentachloronitrobenzene			0.055	4.8
Heptachlor			0.0012	0.066	Dantashlananhanal			0.089	7.4
Heptachlorepoxide					Pentachiorophenol				
			0.016	0.066	a /.			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	Phthalicacid			0.055 ¹	28 ¹
HxCDFs (All Hexachlorodibenzofurans)			0.000063	0.001	Phthalicanhydride 🧳	FO 1	10/10/2023	0.055	28 ¹
Hexachloroethane			0.055	30	Physostigmine		1	0.0561	1.4'
Hexachloropropylene			0.035	30	Physostigmine salicylate			0.056	1.4
					, , ,				
Indeno(1,2,3-c,d)pyrene			0.0055	3.4	Promecarb			0.056'	1.4'
lodomethane			0.19	65	Pronamide			0.093	1.5
Isobutyl alcohol			5.6	170	Propham			0.056'	1.4'
Isodrin			0.021	0.066	Propoxur			0.056'	1.4'
sosafrole			0.081	2.6	Prosulfocarb			0.042'	1.4'
Kepone			0.0011	0.13	Pyrene		1	0.067	8.2
Methacrylonitrile			0.24	84	Pyridine		1	0.014	16
Methanol			5.6	0.75 mg/l'	Safrole		+	0.081	22
				-					
Methapyrilene			0.081	1.5	Silvex/2,4,5-TP			0.72	7.9
Methiocarb Methomyl			0.056 ¹ 0.028 ¹	1.4' 0.14 ¹	1,2,4,5-Tetrachlorobenzene TCDDs (All			0.055	14 0.001
					Tetrachlorodibenzo-p-dioxins) TCDFs (All				
Methoxychlor			0.25	0.18	Tetrachlorodibenzo-furans) 1,1,1,2-Tetrachloroethane			0.000063	0.001
3-Methylcholanthrene			0.0055	15	1, 1, 1, 2-1 etrachioroethane			0.057	6.0
4,4'-Methylene bis(2- chloroaniline)		$ \rightarrow $	0.50	30	1,1,2,2-Tetrachloroethane		$ \rightarrow $	0.057	6.0

Form B1 Page 2 of 3

Page 6 of 7

CONSTITUENT	JENT HOW MUST THIS CONSTITUENT BE MANAGED?		WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	THIS	V MUST 3 ISTITUEN MANAGE		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			5	1.9	1.15 mg/ 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
Tribromomethane/Bromoform			0.63	15	Beryllium				0.82	1.22 mg/ TCLP ⁴
2,4,6-Tribromophenol			0.035	7.4	Cadmium				0.69	0.19 mg/ TCLP
1,2,4-Trichlorobenzene			0.055	19	Cadmium				0.69	0.11 mg/ TCLP ⁴
1,1,1-Trichloroethane	FO 10	10/2023	0.054	6.0	Chromium (Total)				2.77	0.86mg/l
1,1,2-Trichloroethane			0.054	6.0	Chromium (Total)				2.77	0.60 mg/ TCLP ⁴
Trichloroethylene			0.054	6.0	Cyanides(Total)				1.2	590
Trichloromonofluoromethane			0.020	30	Cyanides(Amenable)			e.	0.86	30 ¹
2,4,5-Trichlorophenol			0.18	7.4	Fluoride	FO	10/10/2	023	35	NA ⁴
2,4,6-Trichlorophenol			0.035	7.4	Lead				0.69	0.37 mg/
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T			0.72	7.9	Lead				0.69	0.75 mg/ TCLP
1,2,3-Trichloropropane			0.85	30	Mercury (Nonwastewater from Retort)				NA	0.20 mg/ TCLP
1,1,2-Trichloro-1,2,2- trifluoroethane			0.057	30	Mercury (All others)				0.15	0.025 mg 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/ 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/ TCLP
					, Silver				0.43	0.14 mg/ TCLP ⁴
		/			Sulfide				14	NA ²
	F	0			Thallium		1		1.4	0.078 mg TCLP ¹
/	10/1	0/2023			Thallium		1		1.4	0.20 mg/
					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.

Page 7 of 7

Plea	ise print or type.					9		Form	Approved. O	MB No. 3	2051
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	200000000	2. Page 1 of 3. Eme	rgency Respons		4. Manifest	Tracking Nu	2469) J.	IK
	5. Generator's Name and Maili	ng Address	890006982	Generat	or's Site Addres	s (if different th	an mailing addre	\$\$)			011
		Nuclear Partnership, L VP 5511 Hobbs Road.		half of	F		he U.S. De h Gaseous	•		y.	
11	Generator's Phone:	270-441-53	C CONTRACTOR CONTRACTOR	T			lobbs Rd, k				
	6. Transporter 1 Company Nar					00111	U.S. EPA ID		12000	Kalution and Annua Pr	****
	Hittman Trar	isport Services			-				TNROOD	03468	86
	7. Transporter 2 Company Nar	ne					U.S. EPA ID	Number			
	8. Designated Facility Name an	nd Site Address					U.S. EPA ID	Number			
		ons Clive Disposal		tment Facility							
		49, Clive, UT 8402 5-884-0155	1				1		UTD982	59889	18
	Tacinty ST hone.	ion (including Proper Shipping Nar	me Hazard Class ID Number		10. Conta	inore					
	HM and Packing Group (if	any))			No.	Туре	11. Total Quantity	12. Unit Wt./Vol.	13. Wa	aste Code:	S
N-	¹ UN 2912, Radi	oactive material, low s	pecific activity (LSA-	I), 7, (PCB), An	r 2	DM	185	K	1		
RATC		u-239, To-99, Th-230,	Liquid/Oxide, 0.42	MBq, Fissile							
GENERATOR	2. Excepted					1					
0											
	3.										
								1			
	4.	40000000000000000000000000000000000000		Magazanian and a second and a second and a second							
	4.							1 1			
	14. Special Handling Instruction Truck:3051 V		349232	Accumulation				Don o			
		In the event of an F				. IWA	lf unde		rt Date: 1 e, return		
	Exclusive Us	e Shipment, See At	tachment for Add	itional Info			Shipm	ent ID.	9750.0	4.004	4
	marked and labeled/place	DR'S CERTIFICATION: 1 hereby or inded, and are in all respects in pro-	oper condition for transport acc	cording to applicable inte	mational and na	escribed above tional governm	e by the proper sl regulations	hipping name, If export shire	and are classif	fied, packa the Prima	aged, arv
	Exporter, I certify that the	contents of this consignment confi ilmization statement identified in 4	orm to the terms of the attache	ed EPA Acknowledgment	of Consent.						,
	Generator's/Offeror's Printed/Ty	vped Name	m.I	Signature	00 10	0 - 1 - 0 -	/		Month	Day	Year
+	16. International Shipments	in on Beha	IF OF FRN	P Blu	u u	lary				12	123
ITTN	Transporter signature (for expo	Import to U.S.		Export from U.S.	Port of e Date leav						
	17. Transporter Acknowledgmer	nt of Receipt of Materials			Date lea	ang o.o					
TRANSPORTER	Transporter 1 Printed/Typed Na	Brian (-	2/20-22	Signature	12-6	64			Month	Day	Year
NSP	Transporter 2 Printed/Typed Na		J reas in	Signature	Jul	que	u		Month	Day	Year
TRA									ł		
1	18. Discrepancy						*****				
	18a. Discrepancy Indication Sp	ace Quantity	Туре	Ľ	Residue		Partial Re	jection		Full Reje	ction
				м	anifest Referenc	e Number					
Ł	18b. Alternate Facility (or Gene	rator)	ECE	VEA	annearranoione	a Romber.	U.S. EPA ID	Number			
FACILI	- 15 L BI		Enn Stan	· W Elass			1				
	Facility's Phone: 18c. Signature of Alternate Fac	ility (or Generator)	NOV 0 7	2022					Month	n Day	Year
DESIGNATED		I V	NUY U /	2023							1
ESIG		lanagement Method Codes (i.e., c	odes for haza cous waste trea		cycling systems)	******					
ā	1. H137	^{2.} BY		3.	-		4.				
	20. Designated Facility Owner	or Operator: Certification of receip	t of hazardous materials cover	red by the manifest exce	pt as noted in Ite	m 18a	L				
	Printed/Typed Name	A C		Signature	0	+ /	1		Month	Day	Year
FD/	Form 8700-22 /Rev 12.17	Previous editions are obsole	de .		um	RICHATE) FACILITY	TO EDA	1/1	EEST	45
LCF	1 001 0/ 00-22 (1/04. 12*1)	1 Totiona contrata dia obsole		A-70	DE	NGWATEL	FAGILITY	TO EPA	5 C-MANI	real \$	101

Additional Information Attachment, Page 2 of 2

Manifest Number: 023682469JJK

Shipment ID Number:	9750-04-0015

Shipment Date: 11/2/2023

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Storage Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	Net Wt (Ib)	Net Wt (Kg)
9b.1	122622	122622-03	PAD22C51008	Vent Duct Oil and Water	NA	11/17/2022	5.7	412	187	372	169
9b.1	130135	130135-01	PAD22C51552	SPENT OIL. PENDING SAMPLE RESULTS	N/A	08/02/23	0.87	68	31	35	16
		Totals	2				6.57	480	218	407	185

A-71

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.

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APPENDIX B

PCB WASTE CERTIFICATES OF DISPOSAL

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EPA ID # FLD980711071

1940 N.W. 67th Pl., Gainesville, FL

Certificate No. PFFR-22-255-20230816

Certificate of Management

Perma-Fix of Florida of Gainesville, Florida has managed waste(s)

a 14

Received from		Four River Nuclear Partnership, LLC on behalf of USDOE
EPA ID Number	KY8890008982	as identified in Hazardous Waste
Manifest Number	<u>023531984 JJK</u>	& the attached container list and hereby certifies management as of
8/16/2023 in accordance	with applicable Federa	l and State regulations.
Shipment Number:	PFFR-22-255	
Generator:	Four River Nuclear	Partnership, LLC on behalf of USDOE
Address:	5511 Hobbs Road	
	Kevil, KY 42053-	
Contact:	<u>10011, 101 42000-</u>	



- By: Tom McCartt
- Title: Waste Tracking Representative

Signature: Tom McCartt Digitally signed by Tom McCartt Digitally signed by Tom McCartt



Certificate of Management

120000

PFFR-22-255-20230816

PFF Receipt Number	Haz Manifest Number	PFF Profile Number	PFF Package Number	Item Number	Date Processed	Generator Code	Waste Code	Date Received
PFFR-22-255	023531984 JJK	RS22-07-048	102959	130052-01	8/16/2023	KYFRN01	LARW Solids	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-048	102960	130052-02	8/16/2023	KYFRN01	LARW Solids	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-048	102961	130052-03	8/16/2023	KYFRN01	LARW Solids	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-048	102962	130052-04	8/16/2023	KYFRN01	LARW Solids	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-048	102963	130052-05	8/16/2023	KYFRN01	LARW Solids	8/18/2022
PFFR-22-255	023531984 JJK	RS22-08-008	102964	130052-06	8/16/2023	KYFRN01	LARW Solids	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-048	102965	130052-07	8/16/2023	KYFRN01	LARW Solids	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-049	102966	130053-01	8/16/2023	KYFRN01	CAT III L/P	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-049	102967	130053-02	8/16/2023	KYFRN01	CAT III L/P	8/18/2022
PFFR-22-255	023531984 JJK	RS22-08-008	102968	130053-03	8/16/2023	KYFRN01	Reactive	8/18/2022
PFFR-22-255	023531984 JJK	RS22-08-004	102969	130055-01	8/16/2023	KYFRN01	Mercury	8/18/2022
PFFR-22-255	023531984 JJK	RS22-08-005	102970	130055-02	8/16/2023	KYFRN01	PF I	8/18/2022
PFFR-22-255	023531984 JJK	RS22-08-004	102971	130058-01	8/16/2023	KYFRN01	Mercury	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-049	102972	130058-02	8/16/2023	KYFRN01	CAT III L/P	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-048	102973	130059-01	8/16/2023	KYFRN01	LARW Solids	8/18/2022
PFFR-22-255	023531984 JJK	RS22-07-049	102974	130060-01	8/16/2023	KYFRN01	CAT III L/P	8/18/2022

SEP 1 1 2023

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: Volume (Cu/Ft)

15.0

Shipment 7340-08-0027 **Disposal Date** 03/31/2023

UHWM #

82199

Process Landfill

Disposal Location Mixed Waste



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.

Digitally signed by Brennon Dick Date: 2023.04.07 11:32:34 -06'00' Brennon Dick Date: 2023.04.07 11:32:34 - Ub UL Adobe Acrobat Reader version: 2023.001.20093

Brennon Dick Operations Manager Date

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

<u>UHWM #</u>

82201

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:

<u>Shipment</u> 9750-04-0014 Disposal Date 11/13/2023 Volume (Cu/Ft) 7.5 Process Landfill Disposal Location Mixed Waste

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N	DEC 1 4 2023
BY:_	AA
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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.

Digitally signed by Brennon Dick Brennon Dick Date: 2023.12.01 12:36:45 -07/00' Adobe Acrobat Reader version: 2023.006.20380

Brennon Dick Operations Manager Date

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	<u>UHWM #</u>	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-90-0003	2222	03/16/2023	0.8	Landfill	Mixed Waste
9750-90-0004	82259	03/16/2023	4.1	Landfill	Mixed Waste



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.

Digitally signed by Brennon Dick Date: 2023.03.28 08:43:24 -06'00' Brennon Dick Date: 2023.03.28 08:43:24 -06'00 Adobe Acrobat Reader version: 2023.001.20064

Brennon Dick Operations Manager Date

Disposal Location Mixed Waste Mixed Waste

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
9750-01-0097	82200	03/27/2023	30.2	Landfill
9750-01-0098	2223	03/27/2023	96.0	Landfill



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 Date: 2023/03.31 15:16:12 - 06:00 Adobe Acrobat Reader version:

Digitally signed by Brennon Dick 2023.001.20093

Brennon Dick Operations Manager Date

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	<u>UHWM #</u>	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-90-0003	2222	03/16/2023	0.8	Landfill	Mixed Waste
9750-90-0004	82259	03/16/2023	4.1	Landfill	Mixed Waste



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.

Digitally signed by Brennon Dick Date: 2023.03.28 08:43:24 -06'00' Brennon Dick Date: 2023.03.28 08:43:24 -06'00 Adobe Acrobat Reader version: 2023.001.20064

Brennon Dick Operations Manager Date

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 7340-08-0028 7340-08-0029 UHWM # **Disposal Date** 05/22/2023 05/22/2023

2277

82312

Volume (Cu/Ft) 7.5 251.5

Process Landfill Landfill

Disposal Location Mixed Waste Mixed Waste

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Ν	.IUN 2 6 2023	
BY:_	AA	-

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.

Digitally signed by Brennon Dick Brennon Dick Date: 2023.05.30 15:04:40 -06'00' Adobe Acrobat Reader version: 2023.001.20174

Brennon Dick Operations Manager Date

UHWM #

2277

82312

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:

<u>Shipment</u>
7340-08-0028
7340-08-0029

<u>Disposal Date</u> 05/22/2023 05/22/2023 Volume (Cu/Ft) 7.5 251.5 <u>Process</u> Landfill Landfill

Disposal Location Mixed Waste Mixed Waste

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Λ	IUN 2 6 2023	Ų
BY:	AA	

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: 2023.05.30 15:04:40 -06'00' Adobe Acrobat Reader version: 2023.001.20174
--------------	--

Brennon Dick Operations Manager Date

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:

<u>Shipment</u>	<u>UHWM #</u>	Disposal Date	<u>Volume (Cu/Ft)</u>	<u>Process</u>	Disposal Location
9750-90-0005	82332	07/31/2023		Landfill	Mixed Waste
9730-90-0003	02332	0113112023	0.0	Lanum	WINEU Wasle

RECEIVED 8/2/2023

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.

Digitally signed by Brennon Dick Brennon Dick Date: AUX.VO.VI VO.VII Adobe Acrobat Reader version: 2023.003.20244

Date

Brennon Dick Operations Manager

UHWM #

82338

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:

<u>Shipment</u> 9750-01-0101 Disposal Date 06/29/2023 Volume (Cu/Ft) 45.0 <u>Process</u> Landfill Disposal Location Mixed Waste



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.

Digitally signed by Brennon Dick Brennon Dick Date: 2023.07.06 08:32:27 -06'00' Adobe Acrobat Reader version: 2023.003.20201

Brennon Dick Operations Manager Date

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 7340-08-0031

Disposal Date <u>UHWM #</u> 09/07/2023

82405

Volume (Cu/Ft) 7.5

Process Landfill

Disposal Location Mixed Waste



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.

Digitally signed by Brennon Dick Brennon Dick Date: 2023.09.11 14:04:54 -06'00' Adobe Acrobat Reader version: 2023.003.20284

Brennon Dick Operations Manager Date

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:

<u>Shipment</u> 9750-01-0102 <u>Disposal Date</u> 09/25/2023

UHWM #

82407

<u>Volume (Cu/Ft)</u> 30.0 Process Landfill Disposal Location Mixed Waste

BY AH

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: 2023.09.29 11:20:23 -06'00' Adobe Acrobat Reader version: 2023.006.20320

Brennon Dick Operations Manager

Date

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
9750-90-0006

Disposal Date 09/25/2023

UHWM #

82418

Volume (Cu/Ft) 4.1

Process Landfill

Disposal Location Mixed Waste



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.

Digitally signed by Brennon Dick Brennon Dick Date: 2023.09.29 11:21:05 - 06'00' Adobe Acrobat Reader version: 2023.006.20320

Brennon Dick Operations Manager Date

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 7340-08-0032 Disposal Date 09/28/2023

UHWM #

82433

<u>Volume (Cu/Ft)</u> 2,080.0 <u>Process</u> Landfill Disposal Location Mixed Waste



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: 2023.09.29 08:42:46 - 06'00' Adobe Acrobat Reader version: 2023.006.20320

Brennon Dick Operations Manager

Date

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:

ShipmentUHWM #Disposal DateVolume (Cu/Ft)ProcessDisposal Location9750-01-01038246212/14/202330.0LandfillMixed Waste

DEC 2 8 2023

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.

Digitally signed by Brennon Dick Date: 2023.12.23 16:07:38 -07'00' Brennon Dick Adobe Acrobat Reader version: 2023.008.20421

Brennon Dick Operations Manager Date

APPENDIX C

PCB WASTE STORAGE AREA INSPECTION RECORDS

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				inspection sum	
Buildin	g Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-300					
	30DAA-PCB-300-01	9/19/2023			PCB storage area established 9/14/2023.
	30DAA-PCB-300-01	9/26/2023			
	30DAA-PCB-300-01	10/3/2023			
	30DAA-PCB-300-01	10/10/2023			
	30DAA-PCB-300-01	10/17/2023			PCB storage area was closed 10/21/2023.
	30DAA-PCB-300-02	10/3/2023			PCB storage area established 9/27/2023.
	30DAA-PCB-300-02	10/10/2023			
	50D/1111CD-500-02	10/10/2025			

Monday, May 6, 2024

	TOD Waster inspection Summary Report						
Buildir	ng Area	Date Inspected	Leaks Yes	Leaks No	Comments		
	30DAA-PCB-300-02	10/17/2023			PCB storage area was closed 10/17/2023.		
C-333							
	G-333-18	1/17/2023					
	G-333-18	2/14/2023		\checkmark			
	G-333-18	3/14/2023					
	G-333-18	4/11/2023		\checkmark			
	G-333-18	5/9/2023					
	G-333-18	6/6/2023					

Monday, May 6, 2024 $G = GSA \quad S = SAA$

Page 2 of 21

	TOD Waste inspection Summary Report					
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments	
G-33	3-18	7/5/2023				
G-33	3-18	8/2/2023				
G-33	3-18	8/29/2023				
G-33	3-18	9/19/2023				
G-33	3-18	10/17/2023				
G-33	3-18	11/14/2023				
G-33	3-18	12/12/2023				
S-33.	3-27	8/2/2023			PCB storage area established 7/31/2023.	

Monday, May 6, 2024 G = GSA

i eb wase inspection summary report					
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
S-33.	3-27	8/29/2023			
S-33.	3-27	9/19/2023			
S-33.	3-27	10/17/2023			
S-33.	3-27	11/14/2023			
S-33.	3-27	12/12/2023			
S-33.	3-28	9/19/2023			PCB storage area established 8/28/2023.
S-33.	3-28	10/17/2023			
S-33.	3-28	11/14/2023			

Monday, May 6, 2024 G=

Buildin	g Area	Date Inspected	Leaks Yes	Leaks No	Comments
	S-333-28	12/12/2023			
	S-333-29	9/19/2023			PCB storage area established 8/28/2023.
	8-333-29	10/17/2023			
	8-333-29	11/14/2023			
	S-333-29	12/12/2023			
	S-333-30	12/12/2023			PCB storage area established 11/21/2023.
C-337	G-337-PCB-02	1/17/2023		V	

Monday, May 6, 2024 G=

Duilding	A 1100	Data Insuranta d		L color No	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-3	337-PCB-02	2/14/2023			
G-2	337-PCB-02	3/14/2023			
G-2	337-PCB-02	4/11/2023			
G-2	337-PCB-02	5/9/2023			
G-2	337-PCB-02	6/6/2023			
G-2	337-PCB-02	7/5/2023			
G-3	337-PCB-02	8/2/2023			
G-3	337-PCB-02	8/29/2023			

PCB Waste Inspection Summary Report

Monday, May 6, 2024 G

			102 (10001	ispection out	
Building	g Area	Date Inspected	Leaks Yes	Leaks No	Comments
(G-337-PCB-02	9/19/2023			
(G-337-PCB-02	10/17/2023			
(G-337-PCB-02	11/14/2023			
(G-337-PCB-02	12/12/2023			
S	S-337-12	1/17/2023			
S	S-337-12	2/14/2023			
S	S-337-12	3/14/2023			
S	S-337-12	4/11/2023			

PCB Waste Inspection Summary Report

Monday, May 6, 2024 G = GSA

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	57-12	5/9/2023			
S-33	7-12	6/6/2023			
S-33	7-12	7/5/2023			
S-33	7-12	8/2/2023			
S-33	7-12	8/29/2023			
S-33	7-12	9/19/2023			
S-33	57-12	10/17/2023			
S-33	7-12	11/14/2023			

PCB Waste Inspection Su	ummary Report
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Monday, May 6, 2024 $G = GSA \quad S = SAA$

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
					Comments
S-33	37-12	12/12/2023			
S-33	37-13	1/17/2023			
S-33	37-13	2/14/2023			
S-33	37-13	3/14/2023			
S-33	37-13	4/11/2023			
S-33	37-13	5/9/2023			
S-33	37-13	6/6/2023			
S-33	37-13	7/5/2023			

PCB Waste Inspection Su	ummary Report
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Monday, May 6, 2024 G = GSA

	r ob wase inspection building report					
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments	
S-33′	7-13	8/2/2023				
S-33′	7-13	8/29/2023			PCB storage area was closed 8/29/2023.	
S-33′	7-14	1/17/2023				
S-33′	7-14	2/14/2023				
S-33'	7-14	3/14/2023				
S-33′	7-14	4/11/2023				
S-33′	7-14	5/9/2023				
S-33′	7-14	6/6/2023				

Monday, May 6, 2024

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Buildin	ng Area	Date Inspected	Leaks Yes	Leaks No	Comments
	S-337-14	7/5/2023			
	S-337-14	8/2/2023			
	S-337-14	8/29/2023			PCB storage area was closed 8/29/2023.
C-720					
C-720	G-720-36	1/17/2023			
	G-720-36	2/14/2023			
	G-720-36	3/14/2023			
	G-720-36	4/11/2023			

Monday, May 6, 2024 G = GSA

Buildi	ng Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-720-36	5/9/2023			
	G-720-36	6/6/2023			PCB storage area was closed 6/27/23
C-733					
	C-733	1/17/2023			
	C-733	2/14/2023			
	C-733	3/14/2023			
	C-733	4/11/2023			
	C-733	5/9/2023			

Monday, May 6, 2024

 $G = GSA \quad S = SAA$

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Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		6/6/2023			
C-733		6/20/2023			
C-733		7/5/2023			
C-733		8/2/2023			
C-733		8/29/2023			
C-733		9/19/2023			
C-733		10/17/2023			
C-733		11/14/2023			

PCB Waste Inspection Summary Report

Monday, May 6, 2024 G=GS

	r ob wuste inspection Summary Report								
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments				
C-733		12/12/2023							
C-746-Q									
C-746	-Q	1/17/2023							
C-746	-Q	2/14/2023							
C 746		2/14/2022							
C-746	-Q	3/14/2023							
C-746	-Q	4/11/2023							
C-746	-Q	5/9/2023		\checkmark					
C-746	-Q	6/6/2023							

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	i OD Wuste inspection Summary Report							
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments			
C-746-	-Q	7/5/2023						
C-746-	-Q	8/2/2023						
C-746-	-Q	8/29/2023						
C-746-	-Q	9/19/2023						
C-746-	-Q	10/17/2023						
C-746-	-Q	11/14/2023						
C-746-	-Q	12/12/2023						

PCB Waste Inspection Summary Report

	r ob waste inspection Summary Report									
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments					
C-752	2-A	1/17/2023								
C-752	2-A	2/14/2023								
C-752	2-A	3/14/2023								
C-752	2-A	4/11/2023								
C-752	2-A	5/9/2023								
C-752	2-A	6/6/2023								
C-752	2-A	6/20/2023								
C-752	2-A	7/5/2023								

PCB Waste Inspection Summary Report

Monday, May 6, 2024

Date Inspected	Leaks Yes	Leaks No	Comments
8/2/2023			
8/29/2023			
9/19/2023			
10/17/2023			
11/14/2023			
12/12/2023			
1/17/2023			
	8/29/2023 9/19/2023 10/17/2023 11/14/2023 12/12/2023	8/29/2023 □ 9/19/2023 □ 10/17/2023 □ 11/14/2023 □ 12/12/2023 □	8/29/2023 □ ✓ 9/19/2023 □ ✓ 10/17/2023 □ ✓ 11/14/2023 □ ✓ 12/12/2023 □ ✓

Monday, May 6, 2024

G = GSA S = SAA

Duilding	Building Area Date Inspected Leaks Yes Leaks No Comments								
Building	Area	Date Inspected	Leaks yes	Leaks No	Comments				
C-75	3-А	2/14/2023							
C-75	3-A	3/14/2023							
C-75	3-A	4/11/2023							
C-75	3-A	5/9/2023							
C-75	3-A	6/6/2023							
C-75	3-A	6/20/2023							
C-75	3-A	7/5/2023							
C-75	3-А	8/2/2023							

PCB Waste Inspection Summ	nary Report
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Monday, May 6, 2024 G = GSA

	r eb wase inspection summary report							
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments			
C-753-	-A	8/29/2023						
C-753-	-A	9/19/2023						
C-753-	-A	10/17/2023						
C-753-	-A	11/14/2023						
C-753-	-A	12/12/2023						
C-757								
G-757-	-03	1/17/2023						
G-757-	-03	2/7/2023						

Monday, May 6, 2024

 $G = GSA \quad S = SAA$

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D 111	Duilding Anon Data Inspected Looks Vog Looks No Comments								
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments				
G-7:	57-03	2/14/2023							
G-7:	57-03	3/14/2023							
G-7:	57-03	4/11/2023							
G-7:	57-03	5/9/2023							
G-7:	57-03	6/6/2023							
G-7:	57-03	7/5/2023							
G-7:	57-03	8/2/2023							
G-7:	57-03	8/29/2023							

PCB Waste Inspection Summary Report

Monday, May 6, 2024

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-75	57-03	9/19/2023		\checkmark	
G-75	57-03	10/17/2023			
G-75	57-03	11/14/2023			
G-75	57-03	12/12/2023			

PCB	Waste	Inspection	Summary	Report
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APPENDIX D

PCB WASTE INVENTORY TABLES

TABLES

D.1.	Corrections and Adjustments to the December 31, 2022, Inventory	D-5
D.2.	PCB Waste Generated in 2023	D-6
D.3.	Adjustments to the 2023 Inventory	D-8
	PCB Waste Shipped for Disposal in 2023	
D.5.	PCB Waste Inventory as of December 31, 2023	D-12

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
			PCB	EPOXY PAINT CHIPS,					TSCA Mixed	
0	122193	122193-10	Container	VEGETATION AND PPE	6/24/2022	Solid (S)	142	C-333	(TM)	
			PCB	LUBE OIL/PCB RINSATE COLLECTED FROM SITE GLASSES					RCRA/TSCA	
0	122621	122621-01	Container	FROM TRANSFORMER DRAINING	8/23/2022	Liquid (L)	67	C-337	Mixed (RTM)	
0	122622	122622-03	PCB Container	VENTILATION DUCT OIL AND WATER	11/17/2022	L	160	C-337	TM	
0	122623	122623-11	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	11/17/2022	S	43	C-337	TM	
0	130099	130099-01	PCB Container	PCB LIQUIDS WITH CADMIUM, CHROMIUM, AND LEAD	12/28/2022	L	171	C-337	RTM	
1	130135	130135-01	PCB Container	LLW PCB OIL FROM C-337	12/12/2022	L	31	C-337	TM	
1	130123	130123-01	PCB Article Container	PCB LIGHT BALLASTS, CAPACITORS, TRANSFORMERS, ETC.	10/27/2022	S	114	PlantWide	TM	
0	130106	130106-01	PCB Article Container	PCB LIGHT BALLASTS	10/27/2022	S	48	C-720	TM	
TOTAL CORRECTIONS AND ADJUSTMENTS TO THE DECEMBER 31, 2022, INVENTORY [*] : 776										

Table D.1. Corrections and Adjustments to the December 31, 2022 Inventory

*Due to rounding, the weight totals may vary.

Table D.2. PCB Waste Generated in 2023

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
			A			v	EnergySolutions,		TSCA Mixed
122193	122193-11	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	3/29/2023	398	Solid (S)	Clive, UT	C-410	(TM)
			LUBE OIL / PCB RINSATE COLLECTED FROM SITE	8/22/2023	101				RCRA/TSCA
122621	122621-02 ^a	PCB Container	GLASSES FROM TRANSFORMER DRAINING			Liquid (L)	C-337	C-337	Mixed (RTM)
122622	122622-04 ^a	PCB Container	VENTILATION DUCT OIL AND WATER	7/21/2023	89	L	C-337	Proc Bldgs	TM
			PCB SPILL CLEANUP DEBRIS/ENCAPSULATION				EnergySolutions,	0	
122623	122623-12	PCB Container	WASTE	2/20/2023	38	S	Clive, UT	Proc Bldgs	TM
			PCB SPILL CLEANUP DEBRIS/ENCAPSULATION				EnergySolutions,		
122623	122623-13	PCB Container	WASTE	5/11/2023	59	S	Clive, UT	Proc Bldgs	TM
			PCB SPILL CLEANUP DEBRIS/ENCAPSULATION				EnergySolutions,		
122623	122623-14	PCB Container	WASTE	10/12/2023	64	S	Clive, UT	Proc Bldgs	TM
			PCB SPILL CLEANUP DEBRIS/ENCAPSULATION				EnergySolutions,		
122623	122623-15	PCB Container	WASTE	11/16/2023	39	s	Clive, UT	Proc Bldgs	ТМ
122025	122023 13	T OD Container	PCB SOLIDS WITH CADMIUM, CHROMIUM, AND	11,10,2025	57	5	EnergySolutions,	1100 Diago	1111
130116	130116-01	PCB Container	LEAD	2/8/2023	80	S	Clive, UT	C-333	RTM
100110	100110 01	TOD COMMIN	PCB SOLIDS WITH CADMIUM, CHROMIUM, AND	2, 0, 2020	00	2	EnergySolutions,	0 000	
130116	130116-02	PCB Container	LEAD	5/10/2023	68	S	Clive, UT	C-333	RTM
			PCB SOLIDS WITH CADMIUM, CHROMIUM, AND				,		
130116	130116-03 ^a	PCB Container	LEAD	7/31/2023	38	S	C-333	C-333	RTM
		PCB Article					EnergySolutions,		
130162	130162-01	Container	PCB LIGHT BALLASTS AND/OR CAPACITORS	2/16/2023	5	S	Clive, UT	C-752-A	TM
							EnergySolutions,		
130163	130163-01	PCB Container	PCB CONTAMINATED ASBESTOS	2/20/2023	48	S	Clive, UT	C-333	RTM
			PCB CONTAMINATED MISCELLANEOUS				EnergySolutions,		
130188	130188-01	PCB Container	EQUIPMENT AND CONTAINERS	7/14/2023	582	S	Clive, UT	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS				EnergySolutions,		
130188	130188-02	PCB Container	EQUIPMENT AND CONTAINERS	7/21/2023	582	S	Clive, UT	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS				EnergySolutions,		
130188	130188-03	PCB Container	EQUIPMENT AND CONTAINERS	7/21/2023	413	S	Clive, UT	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS				EnergySolutions,		
130188	130188-04	PCB Container	EQUIPMENT AND CONTAINERS	7/22/2023	523	S	Clive, UT	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS				EnergySolutions,		
130188	130188-05	PCB Container	EQUIPMENT AND CONTAINERS	7/22/2023	1,023	S	Clive, UT	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS				EnergySolutions,		
130188	130188-06	PCB Container	EQUIPMENT AND CONTAINERS	7/22/2023	592	S	Clive, UT	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS				EnergySolutions,		
130188	130188-07	PCB Container	EQUIPMENT AND CONTAINERS	8/4/2023	980	S	Clive, UT	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS		_				
130188	130188-08	PCB Container	EQUIPMENT AND CONTAINERS	8/8/2023	312	S	REPACK	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS		_				
130188	130188-09	PCB Container	EQUIPMENT AND CONTAINERS	8/8/2023	366	S	REPACK	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS						
130188	130188-10	PCB Container	EQUIPMENT AND CONTAINERS	8/8/2023	219	S	REPACK	PlantWide	TM

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
		-	PCB CONTAMINATED MISCELLANEOUS			, i	· ·		
130188	130188-11	PCB Container	EQUIPMENT AND CONTAINERS	8/8/2023	400	S	REPACK	PlantWide	TM
		-	PCB CONTAMINATED MISCELLANEOUS						
130188	130188-12	PCB Container	EQUIPMENT AND CONTAINERS	8/8/2023	222	S	REPACK	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS						
130188	130188-13	PCB Container	EQUIPMENT AND CONTAINERS	8/8/2023	220	S	REPACK	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS						
130188	130188-14	PCB Container	EQUIPMENT AND CONTAINERS	8/8/2023	216	S	REPACK	PlantWide	ТМ
			PCB CONTAMINATED MISCELLANEOUS						
130188	130188-15	PCB Container	EQUIPMENT AND CONTAINERS	8/8/2023	218	S	REPACK	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS						
130188	130188-16	PCB Container	EQUIPMENT AND CONTAINERS	8/8/2023	223	S	REPACK	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS				EnergySolutions,		
130188	130188-17	PCB Container	EQUIPMENT AND CONTAINERS	8/11/2023	420	S	Clive, UT	PlantWide	TM
			PCB CONTAMINATED MISCELLANEOUS						
130188	130188-18	PCB Container	EQUIPMENT AND CONTAINERS	8/30/2023	77	S	REPACK	PlantWide	TM
120225	120225-01	PCB Article	PCB LIGHT	7/25/2022	01	C	0.752	D1 (117-1	
130225	130225-01	Container	BALLAST/CAPACITORS/TRANSFORMERS/ETC MATERIALS GENERATED FROM REMOVAL OF	7/25/2023	91	S	C-752-A	PlantWide	TM
		PCB Article	HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-01 ^d		, , , , , , , , , , , , , , , , , , , ,	9/14/2023	d	S	DEDACK	C 200	RTM
130228	130228-01	Container	PCB CONTAMINATED. MATERIALS GENERATED FROM REMOVAL OF	9/14/2023		S	REPACK	C-300	KIM
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-02 ^c	Container	PCB CONTAMINATED.	9/15/2023	с	S	REPACK	C-300	RTM
130228	130228-02	Container	MATERIALS GENERATED FROM REMOVAL OF	9/13/2023		5	KEFACK	C-300	KIWI
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-05 [°]	Container	PCB CONTAMINATED.	9/25/2023	с	s	REPACK	C-300	RTM
130220	130228-03	Container	MATERIALS GENERATED FROM REMOVAL OF	712512025		5	KLI ACK	C-300	KIWI
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-06 [°]	Container	PCB CONTAMINATED.	9/25/2023	с	S	REPACK	C-300	RTM
150220	130220-00	Container	MATERIALS GENERATED FROM REMOVAL OF	712512025		5		0.300	11111
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-07 ^c	Container	PCB CONTAMINATED.	9/25/2023	с	S	REPACK	C-300	RTM
120220		C chiamber	MATERIALS GENERATED FROM REMOVAL OF	712512025			iion	2.500	
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-08 ^c	Container	PCB CONTAMINATED.	9/26/2023	с	S	REPACK	C-300	RTM

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-09 ^c	Container	PCB CONTAMINATED.	9/26/2023	с	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-10 ^c	Container	PCB CONTAMINATED.	9/26/2023	с	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-11 [°]	Container	PCB CONTAMINATED.	9/26/2023	с	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-12 ^c	Container	PCB CONTAMINATED.	9/26/2023	с	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-13 [°]	Container	PCB CONTAMINATED.	9/28/2023	с	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-14 ^c	Container	PCB CONTAMINATED.	9/28/2023	с	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-15 ^d	Container	PCB CONTAMINATED.	9/28/2023	d	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-16 ^c	Container	PCB CONTAMINATED.	9/28/2023	c	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND		,				
130228	130228-17 ^d	Container	PCB CONTAMINATED.	10/2/2023	d	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND		a				
130228	130228-18 ^d	Container	PCB CONTAMINATED.	10/2/2023	d	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND		d				
130228	130228-19 ^d	Container	PCB CONTAMINATED.	10/2/2023	u	S	REPACK	C-300	RTM

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-20 ^e	Container	PCB CONTAMINATED.	10/2/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-21 ^e	Container	PCB CONTAMINATED.	10/2/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-22 ^c	Container	PCB CONTAMINATED.	10/3/2023	с	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-23 ^e	Container	PCB CONTAMINATED.	10/3/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-24 ^d	Container	PCB CONTAMINATED.	10/3/2023	d	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-26 ^e	Container	PCB CONTAMINATED.	10/5/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-27 ^d	Container	PCB CONTAMINATED.	10/3/2023	d	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-28 ^e	Container	PCB CONTAMINATED.	10/9/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-29 ^e	Container	PCB CONTAMINATED.	10/10/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-30 ^e	Container	PCB CONTAMINATED.	10/10/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-31 ^e	Container	PCB CONTAMINATED.	10/10/2023	e	S	REPACK	C-300	RTM

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-32 ^e	Container	PCB CONTAMINATED.	10/10/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-33 ^e	Container	PCB CONTAMINATED.	10/10/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-34 ^e	Container	PCB CONTAMINATED.	10/10/2023	e	S	REPACK	C-300	RTM
			MATERIALS GENERATED FROM REMOVAL OF						
			HVAC SYSTEM. METAL, INSULATION, PLASTIC,						
		PCB Article	CONCRETE, ASBESTOS. PCB GASKET, LEAD AND						
130228	130228-35 ^e	Container	PCB CONTAMINATED.	10/11/2023	e	S	REPACK	C-300	RTM
			PCB CONTAMINATED MISCELLANEOUS						
			EQUIPMENT CONTAINER CIRCUIT BOARDS,				EnergySolutions,		
130233	130233-01	PCB Container	CAPACITORS, ETC.	7/21/2023	72	S	Clive, UT	Various	RTM
			PCB CONTAMINATED MISCELLANEOUS						
			EQUIPMENT CONTAINER CIRCUIT BOARDS,				EnergySolutions,		
130233	130233-02	PCB Container	CAPACITORS, ETC	7/21/2023	57	S	Clive, UT	Various	RTM
			TOTAL PCB WASTE GENERATEI	D IN CY 2023^b:	8,835				

^a Indicates a collection container as of December 31, 2023. Weight is estimated.

^b Due to rounding, the weight totals may vary.

^c Indicates a collection container. The container was not weighed before being repacked. The container was repacked into 130228-03. The weight for 130228-03 can be seen on Table D.3.

^d Indicates a collection container. The container was not weighed before being repacked. The container was repacked into 130228-04. The weight for 130228-04 can be seen on Table D.3.

^e Indicates a collection container. The container was not weighed before being repacked. The container was repacked into 130228-25. The weight for 130228-25 can be seen on Table D.3.

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
-1	130106	130106-01	PCB Article Container	PCB LIGHT BALLASTS	10/27/2022	Solid (S)	-76	C-720	TSCA Mixed (TM)	
1	130228	130228-03 ^b	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/15/2023	S	4,835	C-300	RCRA/TSCA Mixed (RTM)	
1	130228	130228-04 ^b	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/14/2023	S	7,121	C-300	RTM	
1	130228	130228-25 ^b	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/2/2023	s	6,214	C-300	RTM	
-1	130228	130228-01 ^d	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/14/2023	S	d	C-300	RTM	
-1	130228	130228-02°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/15/2023	s	с	C-300	RTM	
-1	130228	130228-05°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/25/2023	s	с	C-300	RTM	
-1	130228	130228-06°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/25/2023	s	с	C-300	RTM	
-1	130228	130228-07°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/25/2023	s	с	C-300	RTM	
-1	130228	130228-08 ^c	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/26/2023	S	с	C-300	RTM	

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
-1	130228	130228-09°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/26/2023	S	c	C-300	RTM	
-1	130228	130228-10 ^c	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/26/2023	S	c	C-300	RTM	
-1	130228	130228-11°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/26/2023	S	с	C-300	RTM	
-1	130228	130228-12°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/26/2023	S	с	C-300	RTM	
-1	130228	130228-13°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/28/2023	S	с	C-300	RTM	
-1	130228	130228-14°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/28/2023	S	с	C-300	RTM	
-1	130228	130228-15 ^d	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/28/2023	S	d	C-300	RTM	
-1	130228	130228-16°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/28/2023	S	c	C-300	RTM	
-1	130228	130228-17 ^d	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/2/2023	S	đ	C-300	RTM	

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
-1	130228	130228-18 ^d	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/2/2023	S	d	C-300	RTM	
-1	130228	130228-19 ^d	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/2/2023	S	d	C-300	RTM	
-1	130228	130228-20°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/2/2023	S	c	C-300	RTM	
-1	130228	130228-21°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/2/2023	S	c	C-300	RTM	
-1	130228	130228-22°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/3/2023	S	c	C-300	RTM	
-1	130228	130228-23°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/3/2023	S	c	C-300	RTM	
-1	130228	130228-24 ^d	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/3/2023	S	d	C-300	RTM	
-1	130228	130228-26°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/5/2023	S	c	C-300	RTM	
-1	130228	130228-27 ^d	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/3/2023	S	d	C-300	RTM	

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
-1	130228	130228-28 ^e	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/9/2023	S	c	C-300	RTM	
-1	130228	130228-29°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/10/2023	S	c	C-300	RTM	
-1	130228	130228-30°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/10/2023	S	c	C-300	RTM	
-1	130228	130228-31°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/10/2023	S	с	C-300	RTM	
-1	130228	130228-32°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/10/2023	S	c	C-300	RTM	
-1	130228	130228-33°	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/10/2023	S	с	C-300	RTM	
-1	130228	130228-34 [°]	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/10/2023	S	с	C-300	RTM	
-1	130228	130228-35°	Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/11/2023	S	с	C-300	RTM	
-1	130188	130188-08 ^f	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	8/8/2023	S	-312	C-753-A	ТМ	
-1	130188	130188-09 ^f	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	8/8/2023	S	-366	C-753-A	ТМ	
-1	130188	130188-10	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	8/8/2023	S	-219	C-753-A	TM	
-1	130188	130188-11 ^f	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	8/8/2023	s	-400	C-753-A	TM	

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
			PCB	PCB CONTAMINATED MISCELLANEOUS						
-1	130188	130188-12 ^f	Container	EQUIPMENT AND CONTAINERS	8/8/2023	S	-222	C-753-A	TM	
			PCB	PCB CONTAMINATED MISCELLANEOUS						
-1	130188	130188-13 ^f	Container	EQUIPMENT AND CONTAINERS	8/8/2023	S	-220	C-753-A	TM	
			PCB	PCB CONTAMINATED MISCELLANEOUS						
-1	130188	130188-14 ^f	Container	EQUIPMENT AND CONTAINERS	8/8/2023	S	-216	C-753-A	TM	
			PCB	PCB CONTAMINATED MISCELLANEOUS						
-1	130188	130188-15 ^f	Container	EQUIPMENT AND CONTAINERS	8/8/2023	S	-218	C-753-A	TM	
			PCB	PCB CONTAMINATED MISCELLANEOUS						
-1	130188	130188-16 ^f	Container	EQUIPMENT AND CONTAINERS	8/8/2023	S	-223	C-753-A	TM	
			PCB	PCB CONTAMINATED MISCELLANEOUS						
-1	130188	130188-18 ^f	Container	EQUIPMENT AND CONTAINERS	8/30/2023	S	-77	C-753-A	TM	
			PCB	PCB CONTAMINATED MISCELLANEOUS						
1	130188	130188-19 ^b	Container	EQUIPMENT AND CONTAINERS	8/8/2023	S	4,717	C-753-A	TM	
			TOTAL AD	DJUSTMENTS TO CY 2023 INVENTORY ^a :			20,339			

^aDue to rounding, the weight totals may vary.

^bIndicates a container material was repacked into.

^cIndicates a collection container. The container was not weighed before being repacked. The container was repacked into 130228-03.

^d Indicates a collection container. The container was not weighed before being repacked. The container was repacked into 130228-04.

^eIndicates a collection container. The container was not weighed before being repacked. The container was repacked into 130228-25.

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
122622	122622-02	PCB Container	VENTILATION DUCT OIL AND WATER	2/21/2022	Energy <i>Solutions,</i> Clive, UT	209	Liquid (L)	Proc Bldgs	TSCA Mixed (TM)	1/12/2023	Energy <i>Solutions,</i> Clive, UT	023682201JJK
122623		PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	8/2/2022	Energy <i>Solutions</i> , Clive, UT	81	Solid (S)	Proc Bldgs	TM	1/12/2023	Energy <i>Solutions,</i> Clive, UT	023682199JJK
122623	122623-09	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	9/27/2022	Energy <i>Solutions,</i> Clive, UT	85	S	Proc Bldgs	TM	1/12/2023	Energy <i>Solutions,</i> Clive, UT	023682199JJK
122025	122023-07	I CD Container	POTHEAD WITH ELECTRICAL CABLE. POTHEAD)12112022		00	5	Title Diags	1 1 1 1	1/12/2025		025002177 5 3K
122667	122667-01	PCB Article Container	CONTAINS PETROLATUM. CABLE IS PAPER AND LEAD INSULATED. PAPER IS IMPREGNATED WITH OIL	3/7/2022	Energy <i>Solutions</i> , Clive, UT	571	S	C-531	RCRA/TSCA Mixed (RTM)	2/7/2023	Energy <i>Solutions,</i> Clive, UT	023682223JJK
130083	130083-01	PCB Article Container	CAPACITORS FROM CHARGERS IN BATTERY ROOMS AND ASSOCIATED BCS	9/7/2022	Energy <i>Solutions</i> , Clive, UT	5	S	Proc Bldgs	TM	2/7/2023	Energy <i>Solutions,</i> Clive, UT	023682222JJK
122668	122668-01	PCB Article Container	PCB LIGHT BALLASTS/CAPACITORS/TRANSFORMERS/ETC.	3/10/2022	Energy <i>Solutions,</i> Clive, UT	83	S	Various	TM	2/23/2023	Energy <i>Solutions,</i> Clive, UT	023682259JJK
122623	122623-10	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	10/7/2022	Energy <i>Solutions,</i> Clive, UT	98	S	Proc Bldgs	TM	3/23/2023	Energy <i>Solutions,</i> Clive, UT	023682277JJK
122193	122193-10	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	6/24/2022	Energy <i>Solutions,</i> Clive, UT	731	S	C-410	TM	4/27/2023	Energy <i>Solutions,</i> Clive, UT	023682312JJK
122235	122235-05	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	5/18/2022	Energy <i>Solutions,</i> Clive, UT	454	S	С-746-В	TM	4/27/2023	Energy <i>Solutions,</i> Clive, UT	023682312JJK
122623		PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	2/20/2023	Energy <i>Solutions,</i> Clive, UT	38	S	Proc Bldgs	TM	4/27/2023	Energy <i>Solutions,</i> Clive, UT	023682312JJK
130162	130162-01	PCB Article Container	PCB LIGHT BALLASTS AND/OR CAPACITORS	2/16/2023	Energy <i>Solutions,</i> Clive, UT	5	S	C-752-A	TM	6/20/2023	Energy <i>Solutions,</i> Clive, UT	023682332JJK
130163	130163-01	PCB Container	PCB CONTAMINATED ASBESTOS	2/20/2023	Energy <i>Solutions,</i> Clive, UT	48	S	C-333	RTM	6/20/2023	Energy <i>Solutions,</i> Clive, UT	023682338JJK
122621	122621-01	PCB Container	LUBE OIL / PCB RINSATE COLLECTED FROM SITE GLASSES FROM TRANSFORMER DRAINING	8/23/2022	Energy <i>Solutions,</i> Clive, UT	94	L	C-337	RTM	8/17/2023	Energy <i>Solutions,</i> Clive, UT	023682410JJK
122623	122623-11	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	11/17/2022	Energy <i>Solutions,</i> Clive, UT	70	S	Proc Bldgs	TM	8/17/2023	Energy <i>Solutions,</i> Clive, UT	023682405JJK
130116	130116-01	PCB Container	PCB SOLIDS WITH CADMIUM, CHROMIUM, AND LEAD	2/8/2023	Energy <i>Solutions,</i> Clive, UT	80	S	C-333	RTM	8/17/2023	Energy <i>Solutions,</i> Clive, UT	023682407JJK
130123	130123-01	PCB Article Container	PCB LIGHT BALLASTS, CAPACITORS, TRANSFORMERS, ETC.	10/27/2022	Energy <i>Solutions,</i> Clive, UT	114	S	PlantWide	TM	8/17/2023	Energy <i>Solutions,</i> Clive, UT	023682418JJK
130188	130188-01	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	7/14/2023	Energy <i>Solutions,</i> Clive, UT	582	S	PlantWide	TM	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK
130188	130188-02	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	7/21/2023	Energy <i>Solutions,</i> Clive, UT	582	S	PlantWide	TM	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK
130188	130188-03	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	7/21/2023	Energy <i>Solutions,</i> Clive, UT	413	S	PlantWide	TM	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK
130188	130188-04	PCB Container		7/22/2023	Energy <i>Solutions,</i> Clive, UT	523	S	PlantWide	TM	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK
130188	130188-05	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	7/22/2023	Energy <i>Solutions</i> , Clive, UT	1,023	S	PlantWide	TM	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK
130188	130188-06	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	7/22/2023	Energy <i>Solutions,</i> Clive, UT	592	S	PlantWide	TM	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK
130188	130188-07	PCB Container		8/4/2023	Energy <i>Solutions,</i> Clive, UT	980	S	PlantWide	TM	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK
130188	130188-17	PCB Container		8/11/2023	Energy <i>Solutions</i> , Clive, UT	420	S	PlantWide	TM	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK
130188	130188-19	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS	8/8/2023	Energy <i>Solutions</i> , Clive, UT	4,717	S	PlantWide	TM	9/18/2023	Energy <i>Solutions,</i> Clive, UT	023682433JJK
122622	122622-03	PCB Container	VENTILATION DUCT OIL AND WATER	11/17/2022	Energy <i>Solutions</i> , Clive, UT	187	L	Proc Bldgs	TM	11/2/2023	Energy <i>Solutions,</i> Clive, UT	023682469JJK

Table D.4. PCB Waste Shipped for Disposal in 2023 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
			PCB LIQUIDS WITH CADMIUM, CHROMIUM, AND		EnergySolutions,						EnergySolutions,	
130099	130099-01	PCB Container	LEAD	12/28/2022	Clive, UT	198	L	C-333	RTM	11/2/2023	Clive, UT	023682464JJK
					EnergySolutions,						EnergySolutions,	
130135	130135-01	PCB Container	LLW PCB OIL FROM C-337	12/12/2022	Clive, UT	31	L	C-337	TM	11/2/2023	Clive, UT	023682469JJK
130233	130233-01	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT CONTAINER CIRCUIT BOARDS, CAPACITORS, ETC.	7/21/2023	Energy <i>Solutions,</i> Clive, UT	72	S	Various	RTM	11/2/2023	Energy <i>Solutions,</i> Clive, UT	023682462JJK
130233	130233-02	PCB Container	PCB CONTAMINATED MISCELLANEOUS EQUIPMENT CONTAINER CIRCUIT BOARDS, CAPACITORS, ETC	7/21/2023	Energy <i>Solutions,</i> Clive, UT	57	S	Various	RTM	11/2/2023	Energy <i>Solutions,</i> Clive, UT	023682462JJK
	TOTAL PCB WASTE SHIPPED FOR DISPOSAL IN CY 2023*: 13.142											

*Due to rounding, the weight totals may vary.

Table D.5. PCI	3 Waste Inventory a	s of December 31, 2023
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RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kgs)	Current Facility	Source	Waste Category
122193	122193-11	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE		Solid (S)	398	Energy <i>Solutions,</i> Clive, UT	C-410	TSCA Mixed (TM)
130116	130116-02	PCB Container	PCB SOLIDS WITH CADMIUM, CHROMIUM, AND LEAD	5/10/2023	S	68	Energy <i>Solutions,</i> Clive, UT	C-333	RCRA/TSCA Mixed (RTM)
122623	122623-13	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	5/11/2023	S	59	Energy <i>Solutions,</i> Clive, UT	Proc Bldgs	ТМ
122622	122622-04	PCB Container	VENTILATION DUCT OIL AND WATER	7/21/2023	Liquid (L)	89	C-337	Proc Bldgs	TM
130225	130225-01	PCB Article Container	PCB LIGHT BALLAST/CAPACITORS/TRANSFORMERS/ETC	7/25/2023	S	91	C-752-A	PlantWide	TM
130116	130116-03	PCB Container	PCB SOLIDS WITH CADMIUM, CHROMIUM, AND LEAD	8/10/2023	s	38	C-333	C-333	RTM
122621	122621-02 ^a	PCB Container	LUBE OIL / PCB RINSATE COLLECTED FROM SITE GLASSES FROM TRANSFORMER DRAINING	8/22/2023	L	101	C-337	C-337	RTM
130228	130228-04	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/14/2023	S	7,121	Energy <i>Solutions,</i> Clive, UT	C-300	RTM
130228	130228-03	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	9/15/2023	S	4,835	Energy <i>Solutions,</i> Clive, UT	C-300	RTM
130228	130228-25	PCB Article Container	MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED.	10/4/2023	S	6,214	Energy <i>Solutions,</i> Clive, UT	C-300	RTM
122623	122623-14	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	10/12/2023	S	64	Energy <i>Solutions,</i> Clive, UT	Proc Bldgs	TM
122623	122623-15 ^a	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	11/16/2023	S	39	C-752-A	Proc Bldgs	TM
TOTAL PCB WASTE INVENTORY AS OF DECEMBER 31, 2023 ^b : 19,117									

^a Indicates a collection container as of December 31, 2023. Weight is estimated.

^b Due to rounding, the weight totals may vary.