

**Annual Document of
Polychlorinated Biphenyls
at the Paducah Gaseous Diffusion Plant,
Paducah, Kentucky, for
January 1, 2021–December 31, 2021**



This document is approved for public release per review by:

David Hayden
FRNP Classification Support

06-23-2022
Date

**Annual Document of
Polychlorinated Biphenyls
at the Paducah Gaseous Diffusion Plant,
Paducah, Kentucky, for
January 1, 2021–December 31, 2021**

Date Issued—June 2022

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
<i>CFR</i>	<i>Code of Federal Regulations</i>
CY	calendar year
DOE	U.S. Department of Energy
DSSI	Diversified Scientific Services, LLC
EPA	U.S. Environmental Protection Agency
IWTS	Integrated Waste Tracking System
RCRA	Resource Conservation and Recovery Act
TSDf	treatment, storage, and disposal facility
UHWm	Uniform Hazardous Waste Manifest

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EXECUTIVE SUMMARY

This *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2021–December 31, 2021*, (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. 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*.

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 2021 are summarized below:

PCB transformers in service as of 12/31/2021:	0
Total PCBs in kg in PCB transformers as of 12/31/2021:	0
PCB large capacitors in service as of 12/31/2021:.....	0
PCB waste in kg ¹ generated in CY 2021:	27,167
PCB waste in kg ² shipped off-site for treatment/disposal in CY 2021:.....	38,758
PCB waste in kg ³ remaining in storage for disposal as of 12/31/2021:.....	34,949

Throughout CY 2021, the Paducah Site generated twenty-one manifested shipments of PCB wastes to off-site treatment/disposal facilities. Twenty CDs were received in CY 2021 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 2021 Annual Compliance Agreement Report January 1 through December 31, 2021, for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, FRNP-RPT-0252, dated May 2022, in accordance with the *Modification to the February 20, 1992, Compliance Agreement Between the United*

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

³ See note 1.

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

1. PCB WASTE MANIFESTS

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

Twenty-one manifests with 49 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:

- EnergySolutions disposal facility in Clive, UT; and
- Waste Control Specialist disposal facility in Andrews, TX.

Table 1.1 summarizes the 2021 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 Integrated Waste Tracking System (IWTS) and the PCB and Additional Information attachment to the UHWM. When completing manifest documentation, the Deactivation and Remediation Contractor works with various treatment, storage, and disposal facilities (TSDFs) to facilitate acceptance. On occasion, the manifested weights are adjusted due to factors such as differences in the receiving facility's scale or because the TSDF requires the gross weight to be manifested instead of the net weight; however, the waste database is kept intact to reflect the operating weights while the waste was managed on-site.

Table 1.1 PCB Waste Manifests Summary

UHWM Number	Date Shipped	Shipment Destination	Number of PCB Containers	Weight from UHWM (kg)^{a,b}
019695049JJK	1/28/2021	EnergySolutions, Clive, UT	1	32
019695050JJK	1/28/2021	EnergySolutions, Clive, UT	1	194
019695054JJK	2/23/2021	EnergySolutions, Clive, UT	1	9489
019695055JJK	2/23/2021	EnergySolutions, Clive, UT	1	5552
019695059JJK	3/2/2021	EnergySolutions, Clive, UT	1	2336
019695071JJK	3/4/2021	EnergySolutions, Clive, UT	5	2878
019695091JJK	3/29/2021	EnergySolutions, Clive, UT	1	44
019695093JJK	3/29/2021	EnergySolutions, Clive, UT	1	196
019695128JJK	5/25/2021	EnergySolutions, Clive, UT	3	539
019695148JJK	6/21/2021	EnergySolutions, Clive, UT	1	3671
019695153JJK	6/21/2021	EnergySolutions, Clive, UT	3	73
019695154JJK	6/18/2021	EnergySolutions, Clive, UT	4	2186
019695194JJK	7/29/2021	EnergySolutions, Clive, UT	1	3783
019695216JJK	8/20/2021	EnergySolutions, Clive, UT	1	39
019695234JJK	9/28/2021	EnergySolutions, Clive, UT	1	203
019695252JJK	10/14/2021	EnergySolutions, Clive, UT	2	457
019695257JJK	10/28/2021	EnergySolutions, Clive, UT	3	97
019695261JJK	10/28/2021	EnergySolutions, Clive, UT	4	782
019695309JJK	12/14/2021	EnergySolutions, Clive, UT	1	172
019695317JJK	12/14/2021	Waste Control Specialist, Andrews, TX	8	3156
019695318JJK	12/14/2021	Waste Control Specialist, Andrews, TX	5	2878
Total UHWM: 21			49	38,758

^a The weights in kg were taken from the UHWMs which may differ from IWTS weights shown in Table D.4

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

2. PCB WASTE CERTIFICATES OF DISPOSAL

Certificates of Disposal (CDs) that have been received by the facility during the CY for PCB wastes disposed of are annual records required by 40 *CFR* § 761.180(a)(1)(ii). Twenty CDs were received in 2021 from the following facilities:

- Energy*Solutions* disposal facility in Clive, UT; and
- Diversified Scientific Services, LLC, (DSSI) Perma-Fix facility in Kingston, TN.

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 2021 was for waste shipped in 2021, the manifests are shown in Table 1.1 and Appendix A.

Table 2.1. PCB Waste Certificates of Disposal Summary

UHWM	Earliest Date Removed from Service	Date Shipped	Disposer	Containers Disposed of	Weight from UHWM (kg)^a	Date of Disposal	Date CD Received
019694669JJK	9/10/2018	9/10/2019	DSSI, Inc., Kingston, TN	1	109	12/17/2020	1/14/2021
019694871JJK	5/9/2019	3/16/2020	EnergySolutions, Clive, UT	1	200	12/31/2020	1/5/2021
019694871JJK	6/24/2019	3/16/2020	EnergySolutions, Clive, UT	1	201	12/31/2020	1/5/2021
019694871JJK	8/20/2019	3/16/2020	EnergySolutions, Clive, UT	1	198	12/31/2020	1/5/2021
019694871JJK	10/30/2019	3/16/2020	EnergySolutions, Clive, UT	1	191	12/31/2020	1/5/2021
019694871JJK	12/2/2019	3/16/2020	EnergySolutions, Clive, UT	1	198	12/31/2020	1/5/2021
019694899JJK	8/21/2020	9/10/2020	EnergySolutions, Clive, UT	1	11,083	9/28/2020	1/28/2021
019694972JJK	2/11/2020	10/20/2020	EnergySolutions, Clive, UT	1	192	6/21/2021	7/2/2021
019694994JJK	9/25/2020	10/22/2020	EnergySolutions, Clive, UT	1	16,923	11/30/2020	2/23/2021
019695049JJK	3/16/2020	1/28/2021	EnergySolutions, Clive, UT	1	32	3/1/2021	3/8/2021
019695050JJK	7/2/2020	1/28/2021	EnergySolutions, Clive, UT	1	194	10/7/2021	10/13/2021
019695054JJK	11/4/2020	2/23/2021	EnergySolutions, Clive, UT	1	9,489	3/18/2021	3/24/2021
019695055JJK	11/4/2020	2/23/2021	EnergySolutions, Clive, UT	1	5,552	3/18/2021	3/24/2021
019695059JJK	11/4/2020	3/2/2021	EnergySolutions, Clive, UT	1	2,336	3/18/2021	3/24/2021
019695071JJK	10/16/2020	3/4/2021	EnergySolutions, Clive, UT	1	589	5/13/2021	5/18/2021
019695071JJK	11/6/2020	3/4/2021	EnergySolutions, Clive, UT	1	517	5/13/2021	5/18/2021
019695071JJK	11/13/2020	3/4/2021	EnergySolutions, Clive, UT	1	1,024	5/13/2021	5/18/2021
019695071JJK	11/20/2020	3/4/2021	EnergySolutions, Clive, UT	1	400	5/13/2021	5/18/2021
019695071JJK	1/22/2021	3/4/2021	EnergySolutions, Clive, UT	1	348	5/13/2021	5/18/2021

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
019695091JJK	8/17/2020	3/29/2021	EnergySolutions, Clive, UT	1	44	5/13/2021	5/18/2021
019695093JJK	8/11/2020	3/29/2021	EnergySolutions, Clive, UT	1	196	6/21/2021	7/2/2021
019695148JJK	3/4/2021	6/21/2021	EnergySolutions, Clive, UT	1	3,671	11/22/2021	12/1/2021
019695153JJK	7/23/2020	6/21/2021	EnergySolutions, Clive, UT	1	21	6/29/2021	7/2/2021
019695153JJK	8/12/2020	6/21/2021	EnergySolutions, Clive, UT	1	1	6/29/2021	7/2/2021
019695153JJK	9/21/2020	6/21/2021	EnergySolutions, Clive, UT	1	51	6/29/2021	7/2/2021
019695154JJK	1/12/2021	6/18/2021	EnergySolutions, Clive, UT	1	838	6/25/2021	7/2/2021
019695154JJK	1/23/2021	6/18/2021	EnergySolutions, Clive, UT	1	360	6/25/2021	7/2/2021
019695154JJK	4/12/2021	6/18/2021	EnergySolutions, Clive, UT	1	250	6/25/2021	7/2/2021
019695154JJK	4/27/2021	6/18/2021	EnergySolutions, Clive, UT	1	738	6/25/2021	7/2/2021
019695194JJK	5/13/2021	7/29/2021	EnergySolutions, Clive, UT	1	3,783	8/12/2021	8/13/2021
019695216JJK	11/5/2020	8/20/2021	EnergySolutions, Clive, UT	1	39	8/30/2021	9/9/2021
019695252JJK	6/4/2021	10/14/2021	EnergySolutions, Clive, UT	1	207	10/25/2021	11/4/2021
019695252JJK	6/30/2021	10/14/2021	EnergySolutions, Clive, UT	1	250	10/25/2021	11/4/2021
019695257JJK	1/19/2021	10/28/2021	EnergySolutions, Clive, UT	1	27	12/14/2021	12/17/2021
019695257JJK	3/15/2021	10/28/2021	EnergySolutions, Clive, UT	1	27	12/14/2021	12/17/2021
019695257JJK	7/6/2021	10/28/2021	EnergySolutions, Clive, UT	1	43	12/14/2021	12/17/2021
Totals^b				36	60,322		

^a The weights in kg were taken from the UHWMs, as shown in Table 1.1, which differs from IWTS weights shown in Table 6.4.

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

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3. PCB WASTE STORAGE AREA INSPECTION RECORDS

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

Table 3.1 lists the PCB waste storage areas (i.e., a building or an area within a building) established and/or operated for PCB wastes at the Paducah Site during CY 2021. Appendix C contains information from the PCB Waste Inspection database and lists the dates of inspection and a “Yes/No” check to indicate if leaks/spills were found.

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

Table 3.1. PCB Waste Storage Areas at the Paducah Site

Building	Waste Area Designator
C-333	G-331-18 ^a
C-333	G-333-37 ^{a,b}
C-333	PCB/180-333-01 ^c
C-335	G-335-17 ^{a,d}
C-337	G-337-02 ^a
C-337	G-337-03 ^a
C-337	G-337-PCB-02 ^a
C-400	30DAA-400-01 ^e
C-411-A	30DAA-411A-01 ^f
C-733	C-733
C-746-Q	C-746-Q
C-752-A	C-752-A
C-753-A	C-753-A
C-757	G-757-03 ^a
C-759	30DAA-759-01 ^g

^aWaste 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.

^bG-337-37 was opened on November 15, 2021.

^c PCB/180DAA-333-37 was opened on June 2, 2021, and was closed on December 7, 2021.

^d G-335-17 was opened on April 16, 2021, and was closed on July 21, 2021.

^e Waste within 30DAA-400-01 was sampled and determined to be non-PCB on October 12, 2021. PCB storage area was no longer inspected after October 12, 2021.

^f 30DAA-PCB-411A-01 was closed on June 2, 2021.

^g 30DAA-PCB-759-01 was closed on March 9, 2021.

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4. PCB SPILL CLEANUP RECORDS

Records of cleanup and disposal of any spilled or leaked materials from PCB items in storage, in accordance with 40 *CFR* § 761.65(c)(5), are annual records required by 40 *CFR* § 761.180(a)(1)(iii). Because no spills occurred in PCB storage areas during CY 2021, there are no records.

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5. PCB ELECTRICAL EQUIPMENT IN SERVICE

No PCB (≥ 500 ppm) transformers or PCB (≥ 500 ppm) large capacitors were in service at the Paducah Site as of December 31, 2021, which is summarized in Table 5.1. In addition, no PCB transformers or PCB large capacitors were removed from service in CY 2021. Sixty-seven PCB transformers were removed from service, drained, and flushed during 2015. They were stored in place in C-337 during CY 2021. Residual flushate was removed over time as it drained through and collected in the units.

There are no CY 2021 PCB transformer maintenance records because there was no maintenance performed on these transformers, and the transformers currently are not in service.

**Table 5.1. PCB Electrical Equipment in Service
as of December 31, 2021**

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

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

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6. PCB WASTE ACTIVITY

PCB waste activities performed by the facility during the CY 2021 are annual records required by 40 *CFR* § 761.180 (a)(2)(iii). The PCB Waste Activity Summary for CY 2021 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, 2020, has been adjusted from the “PCB Waste Inventory as of December 31, 2020,” reported as Table 10.9 of the *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2020—December 31, 2020*, FRNP-RPT-0179. The net changes to the January 1, 2021, beginning inventory include adjustments because of in-process collection containers at the time of the 2020 inventory, information received after the 2020 report submittal, and/or weight corrections. The detailed listing of the December 31, 2020, corrections and adjustments is provided in Appendix D, Table D.1.

The detailed listing of PCB waste generated during CY 2021 is provided in Appendix D, Table D.2.

The detailed listing of the adjustments to the CY 2021 PCB inventory is provided in Appendix D, Table D.3.

The detailed listing of the PCB waste shipped in CY 2021 is provided in Appendix D, Table D.4.

The detailed listing of the PCB waste inventory as of December 31, 2021, is provided in Appendix D, Table D.5.

There was no PCB waste received from off-site facilities in CY 2021.

Table 6.1. PCB Waste Activity Summary for CY 2021

PCB Waste Items In Inventory	12/31/2020 Inventory		Corrections and Adjustments to Beginning Inventory ^a		1/1/2021 Inventory		Generated		Corrections to 2021 Inventory ^b		Shipped for Disposal		12/31/2021 Inventory	
	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>
ARTICLES	2	32,795	0	0	2	32,795	0	0	16	344	13	6,310	5	26,828
<i>PCB Transformer Components (drained)</i>	0	0	0	0	0	0	0	0	16	7,826	13	6,310	3	1,515
<i>PCB Transformers (drained)</i>	2	32,795	0	0	2	32,795	0	0	0	-7,482	0	0	2	25,313
ARTICLE CONTAINERS^c	1	23	0	12	1	35	6	8,456	0	0	2	7,220	5	1,272
<i>Large Capacitors</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Light Ballasts</i>	1	23	0	12	1	35	2	676	0	0	1	35	2	676
<i>Misc. Equip. (motors, pumps, etc.)</i>	0	0	0	0	0	0	4	7,780	0	0	1	7,185	3	596
CONTAINERS	17	33,907	-1	-649	16	33,258	29	18,711	-1	-68	34	45,050	10	6,850
<i>Liquids^d</i>	4	897	0	0	4	897	10	2,145	0	0	11	2,366	3	676
<i>Solids</i>	13	33,010	-1	-649	12	32,361	19	16,566	-1	-68	23	42,684	7	6,174
BULK PCB REMEDIATION WASTE SOLIDS < 49 MG/Kg^e	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL^f	20	66,725	-1	-637	19	66,088	35	27,167	15	276	49	58,580	20	34,950

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 2020 inventory, information received after the 2020 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 2021 Inventory column includes adjustments due to repackaging of wastes or because of in-process collection containers during time of 2021 inventory. Weights reported in this summary include the weight of the container (drum/box), except for tanks/tankers.

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

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

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

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

7. PCB WASTE SHIPMENT RECEIPT LOG

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

Table 7.1 CY 2021 PCB Waste Shipment Receipt Log

Shipment ID	Actual Ship Date	Shipment Destination	UHMW #	Comments / Notes	Date Manifest Received	Comments for Manifest Inquiries and Requests	Waste Cat	Confirmation email received from TSDF
7340-08-0011	1/28/2021	EnergySolutions, Clive, UT	019695049JJK	(1) Drum of TSCA/LLW Waste	2/1/2021		TSCA Mixed (TM)	Received email confirmation from Scott Gleason on 2/1/2021
9750-04-0007	1/28/2021	EnergySolutions, Clive, UT	019695050JJK	(1) Drum of TSCA Waste	2/1/2021		TM	Received email confirmation from Scott Gleason on 2/1/2021
9750-01-0082	2/23/2021	EnergySolutions, Clive, UT	019695054JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	2/26/2021		RCRA/TSCA Mixed (RTM)	Received email confirmation from Scott Gleason on 2/26/2021
9750-01-0083	2/23/2021	EnergySolutions, Clive, UT	019695055JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	2/26/2021		RTM	Received email confirmation from Scott Gleason on 2/26/2021
9750-01-0084	3/2/2021	EnergySolutions, Clive, UT	019695059JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/5/2021		RTM	Received email confirmation from Scott Gleason on 3/5/2021
7340-08-0012	3/4/2021	EnergySolutions, Clive, UT	019695071JJK	(5) ST-90s of TSCA/LLW	3/8/2021		TM	Received email confirmation from Scott Gleason on 3/8/2021
7340-08-0013	3/29/2021	EnergySolutions, Clive, UT	019695091JJK	(1) ST-90 PCB/LLW (PCB Filters and DAW)	4/1/2021		TM	Received email confirmation from Scott Gleason on 4/1/2021
9750-04-0008	3/29/2021	EnergySolutions, Clive, UT	019695093JJK	(1) Drum TSCA Waste (PCB Vent Duct Water)	4/1/2021		TM	Received email confirmation from Scott Gleason on 4/1/2021
9750-04-0009	5/25/2021	EnergySolutions, Clive, UT	019695128JJK	(3) Drums of PCB/LLW	5/28/2021		TM	Received email confirmation from Scott Gleason on 5/28/2021
7340-08-0015	6/18/2021	EnergySolutions, Clive, UT	019695154JJK	(4) ST 90S OF LLW/PCB	6/21/2021		TM	Received email confirmation from Scott Gleason on 6/21/2021
9750-03-0005	6/21/2021	EnergySolutions, Clive, UT	019695148JJK	(1) ST-90 of MLLW/PCB	6/24/2021		RTM	Received email confirmation from Scott Gleason on 6/24/2021
7340-08-0014	6/21/2021	EnergySolutions, Clive, UT	019695153JJK	(3) Drum of LLW/PCB	6/24/2021		TM	Received email confirmation from Scott Gleason on 6/24/2021
7340-08-0016	7/29/2021	EnergySolutions, Clive, UT	019695194JJK	(1) Intermodal of LLW/TSCA	8/2/2021		TM	Received email confirmation from Scott Gleason on 8/2/2021
7340-06-0002	8/20/2021	EnergySolutions, Clive, UT	019695216JJK	(1) Drum of PCB Waste	8/24/2021		TM	Received email confirmation from Scott Gleason on 8/24/2021
9750-04-0010	9/28/2021	EnergySolutions, Clive, UT	019695234JJK	(1) Drum of TSCA/LLW	10/1/2021		TM	Received email confirmation from Scott Gleason on 10/1/2021
7340-08-0017	10/14/2021	EnergySolutions, Clive, UT	019695252JJK	(2) ST-90s of PCB Waste	10/18/2021		TM	Received email confirmation from Scott Gleason on 10/18/2021
7340-06-0003	10/28/2021	EnergySolutions, Clive, UT	019695257JJK	(3) Drums of PCB's	11/1/2021		TM	Received email confirmation from Scott Gleason on 11/1/2021
9750-09-0022	10/28/2021	EnergySolutions, Clive, UT	019695261JJK	(4) Drums of TSCA/LLW	11/1/2021		TM	Received email confirmation from Scott Gleason on 11/1/2021
WP-9519-01	12/14/2021	Waste Control Specialists , Andrews, TX	019695317JJK	(8) IP BAGS OF TRANSFORMER FINS	12/15/2021		TM	Barbara Vogler confirmed receipt on 2-15-2021
WP-9519-02	12/14/2021	Waste Control Specialists , Andrews, TX	019695318JJK	(5) IP BAGS OF TRANSFORMER FINS	12/15/2021		TM	Barbara Vogler confirmed receipt on 2-15-2021
9750-09-0023	12/14/2021	EnergySolutions, Clive, UT	019695309JJK	(1) DRUM OF TSCA/LLW	12/17/2021		TM	Received email confirmation from Scott Gleason on 12/17/2021

APPENDIX A
PCB WASTE MANIFESTS

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-0333	4. Manifest Tracking Number 019695049 JJK		
5. Generator's Name and Mailing Address Env. River Nuclear Partnership, LLC, (FRNP) 5511 Hobbs Road, Kevil, KY 42053		Generator's Site Address (if different than mailing address) FRNP Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053					
6. Transporter 1 Company Name RSB LOGISTICS Inc.		U.S. EPA ID Number WAR000012005					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 49, Clive, UT 84029		U.S. EPA ID Number UTD982598898					
Facility's Phone: 1-435-884-0155							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	RQ	1. UN 3321, Radioactive material, low specific activity (LSA-II), 7, (PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 224 MBq, Fissile Excepted	1	DM	32	K	
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information Truck: 56115 Van: 253203 TID: 0349648 Accumulation Start Date: N/A PCB Start Date: 03/16/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info Shipment ID: 7340-06-0011							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Lochella Telfair on behalf of FRNP		Signature <i>Lochella Telfair</i>		Month Day Year 11 28 21			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Kurt Forster		Signature <i>Kurt Forster</i>		Month Day Year 01 28 21			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____ U.S. EPA ID Number _____							
18b. Alternate Facility (or Generator) Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) TS USmail Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albert Guss		Signature <i>Albert Guss</i>		Month Day Year 2 1 21			

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695049 JJK

Shipment ID Number: 7340-08-0011

Shipment Date: 1/28/2021

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	121998	121998-03	PAD20C44094	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	03/16/20	7.3	126	57.15	70.00	31.75	224
Totals				1		7.3	126	57	70	32	224

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2-15-2021

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019695050 JJK		
5. Generator's Name and Mailing Address Four Rivers Water Partnership, LLC. (FRNP) 5511 Hobbs Road, Kevil, KY 42053		Generator's Site Address (if different than mailing address) FRNP Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053					
6. Transporter 1 Company Name RSB LOGISTICS Inc.		U.S. EPA ID Number WAR000012005					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029		U.S. EPA ID Number UTD982598898					
Facility's Phone: 1-435-884-0155							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
RQ	1. UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Polychlorinated biphenyls), 9, PG III, (PCB)	1	DM	104	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information Truck: 56115 Van: 253203 TID: 0349648 Accumulation Start Date: N/A PCB Start Date: 07/02/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See Attachment for Additional Info Shipment ID: 9750-04-0007							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP		Signature <i>Lochelle Telfair</i>		Month Day Year 1 28 21			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Kurt Forster		Signature <i>Kurt Forster</i>		Month Day Year 01 28 21			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)		U.S. EPA ID Number					
Facility's Phone: 2-15-2021							
18c. Signature of Alternate Facility (or Generator) TS US Mail		Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albat Gus		Signature <i>Albat Gus</i>		Month Day Year 2 1 21			

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695050 JJK

Shipment ID Number: 9750-04-0007

Shipment Date: 1/28/2021

UHMW 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	121999	121999-02	PAD20C44550	Vent Duct Oil and Water	07/02/20	6.7	484	219.54	428.00	194.14
Totals			1			6.7	484	220	428	194

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Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019695054 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) 5511 Hobbs Road, Keval, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Keval, KY 42053			
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TNR000011247			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number LUTD982588808			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 2390 MBq, Fissile Excepted	1	CM	9489	K	D007	D008
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004855, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004855.</p>							
<p>14. Special Handling Instructions and Additional Information Truck: 390 Trailer 969 TID: N/A Accumulation Start Date: 11/04/20 PCB Start Date: 11/04/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM0237 Shipment ID: 8750-01-0002</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Officer's Printed/Typed Name Lochell Telfair on behalf of FRNP						Signature <i>[Signature]</i>	
						Month Day Year 2 23 21	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Doug Runkle				Signature <i>[Signature]</i>		Month Day Year 2 23 21	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H32		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albert Gms				Signature <i>[Signature]</i>		Month Day Year 2 26 21	

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

RECEIVED 2/26/2021 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

[Handwritten Signature]

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695054 JJK

Shipment ID Number: 9750-01-0082

Shipment Date: 2/23/2021

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-69	PAD20C44977	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/04/20	11/04/20	550	28,420	12,891	20,920	9,489	2,390
Totals				1			550	28,420	12,891	20,920	9,489	2,390

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LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 019695054JJK
 Profile No.: 9758-01-0582 State Manifest No.: NA

- Is 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 corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	D007	TCLP Chromium	<input type="checkbox"/>	A
2	D008	TCLP Lead	<input type="checkbox"/>	A
← 3			<input type="checkbox"/>	→
← 4		<i>QW 2/22/2021</i>	<input type="checkbox"/>	→

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 subcategory(ies), use the supplemental sheet provided (Form A2) and check here:

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

- A. RESTRICTED WASTE REQUIRES TREATMENT**
 This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
 For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
- B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS**
 "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS**
 "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS**
 "I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- C. RESTRICTED WASTE SUBJECT TO A VARIANCE**
 This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
 For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
- D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT**
 "I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."
- E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS**
 This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

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

Signature (Affiliate) JOSHUA NORMAN Title Waste Engineer Date _____
Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2021.02.22 09:58:31 -05'00'

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

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

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

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

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

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

SUBCATEGORY REFERENCE

D001:

- A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.
- B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.
- C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) – Greater than or equal to 10% total organic carbon.

D002:

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

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 01969505455JK

Profile No.: 9750-01-0582 State Manifest No.: NA

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

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

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

JN 2/22/2021

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)
 Title Waste Engineer Date 2021.02.22 10:00:35 -05'00'

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No. : 019695-05455K

Profile No.: 9780-01-0082 State Manifest No.: NA

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

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

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

JN 2/22/2021

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)
 Title Waste Engineer Date: 2021.02.22 10:01:14 -05'00'

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

Generator Name: FRNP Manifest Doc. No.: 019695054JJK
 Profile No.: 9750-01-0082 State Manifest No.: NA

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

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene	←	0.059	3.4	2-Chloro-1,3-butadiene	←	0.057	0.28 ¹
Acenaphthene		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	<i>JW</i> 2/22/2021	0.056 ¹	0.28 ¹	Chloromethane/Methyl chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene	<i>JW</i> 2/22/2021	0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene	←	0.059	3.4
Aramite		0.36	NA	o-Cresol	A	0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol	A	0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol	A	0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate	←	0.056 ¹	1.4 ¹
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.056 ¹	1.4 ¹	o,p'-DDD		0.023	0.087
Bendiocarb		0.056 ¹	1.4 ¹	p,p'-DDD		0.023	0.087
Benomyl		0.056 ¹	1.4 ¹	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055 ¹	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³		0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo (g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/ Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.042 ¹	1.4 ¹	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006 ¹	0.14 ¹	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006 ¹	0.14 ¹	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056 ¹	1.4 ¹	2,6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane	<i>JW</i> 2/22/2021	0.85	18
Carbosulfan		0.028 ¹	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
p-Chloroaniline		0.46	16	Dieldrin		0.017	0.13
Chlorobenzene	→	0.057	6.0	Diethyl phthalate	→	0.20	28

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate	←	0.10	NA	p-Dimethylaminoazobenzene	←	0.13 ¹	NA
2,4-Dimethyl phenol	←	0.036	14	Methylene chloride	←	0.089	30
Dimethyl phthalate	←	0.047	28	Methyl ethyl ketone	←	0.28	36
Di-n-butyl phthalate	←	0.057	28	Methyl isobutyl ketone	←	0.14	33
1,4-Dinitrobenzene	←	0.32	2.3	Methyl methacrylate	←	0.14	160
4,6-Dinitro-o-cresol	←	0.28	160	Methyl methansulfonate	←	0.018	NA
2,4-Dinitrophenol	←	0.12	160	Methyl parathion	←	0.014	4.6
2,4-Dinitrotoluene	←	0.32	140	Metolcarb	←	0.056 ¹	1.4 ¹
2,6-Dinitrotoluene	←	0.55	28	Mexacarbate	←	0.056 ¹	1.4 ¹
Di-n-octyl phthalate	←	0.017	28	Molinate	←	0.042 ¹	1.4 ¹
Di-n-propylnitrosamine	←	0.40	14	Naphthalene	←	0.059	5.6
1,4-Dioxane	←	12.0	170	2-Naphthylamine	←	0.52	NA
Diphenylamine ³	←	0.92	13 ¹	o-Nitroaniline	←	0.27 ¹	14 ¹
Diphenylnitrosamine ³	←	0.92	13 ¹	p-Nitroaniline	←	0.028	28
1,2-Diphenylhydrazine	←	0.087	NA	Nitrobenzene	←	0.068	14
Disulfoton	←	0.017	6.2	5-Nitro-o-toluidine	←	0.32	28
Dithiocarbamates (total)	←	0.028	28 ¹	o-Nitrophenol	←	0.028 ¹	13 ¹
Endosulfan I	←	0.023	0.066	p-Nitrophenol	←	0.12	29
Endosulfan II	←	0.029	0.13	N-Nitrosodiethylamine	←	0.40	28
Endosulfan sulfate	←	0.029	0.13	N-Nitrosodimethylamine	←	0.40	2.3 ¹
Endrin	←	0.0028	0.13	N-Nitroso-di-n-butylamine	←	0.40	17
Endrin aldehyde	←	0.025	0.13	N-Nitrosomethylethylamine	←	0.40	2.3
EPTC	←	0.042 ¹	1.4 ¹	N-Nitrosomorpholine	←	0.40	2.3
Ethyl acetate	←	0.34	33	N-Nitrosopiperidine	←	0.013	35
Ethyl benzene	←	0.057	10	N-Nitrosopyrrolidine	←	0.013	35
Ethyl cyanide/Propanenitrile	←	0.24	360	Oxamyl	← JW 2/22/2021	0.056 ¹	0.28 ¹
Ethyl ether	←	0.12	160	Parathion	←	0.014	4.6
Bis(2-Ethylhexyl)phthalate	←	0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)	A	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	3L.4	PeCDFs(All Pentachlorodibenzofurans)	←	0.000035	0.001
Fluorene	←	0.059	3.4	Pentachloroethane	←	0.055	6.0
Formetanate hydrochloride	←	0.056 ¹	1.4 ¹	Pentachloronitrobenzene	←	0.055	4.8
Heptachlor	←	0.0012	0.066	Pentachlorophenol	←	0.089	7.4
Heptachlor epoxide	←	0.016	0.066	Phenacetin	←	0.081	16
Hexachlorobenzene	←	0.055	10	Phenanthrene	←	0.059	5.6
Hexachlorobutadiene	←	0.055	5.6	Phenol	←	0.039	6.2
Hexachlorocyclopentadiene	←	0.057	2.4	Phorate	←	0.021	4.6
HxCDDs (All Hexachlorodibenzo-p-dioxins)	←	0.000063	0.001	Phthalic acid	←	0.055 ¹	28 ¹
HxCDFs (All Hexachlorodibenzofurans)	←	0.000063	0.001	Phthalic anhydride	←	0.055	28 ¹
Hexachloroethane	←	0.055	30	Physostigmine	←	0.056 ¹	1.4 ¹
Hexachloropropylene	←	0.035	30	Physostigmine salicylate	←	0.056 ¹	1.4 ¹
Indeno(1,2,3-c,d)pyrene	←	0.0055	3.4	Promecarb	←	0.056 ¹	1.4 ¹
Iodomethane	←	0.19	65	Pronamide	←	0.093	1.5
Isobutyl alcohol	←	5.6	170	Propham	←	0.056 ¹	1.4 ¹
Isodrin	←	0.021	0.066	Propoxur	←	0.056 ¹	1.4 ¹
Isosafrole	←	0.081	2.6	Prosulfocarb	←	0.042 ¹	1.4 ¹
Kepone	←	0.0011	0.13	Pyrene	←	0.067	8.2
Methacrylonitrile	←	0.24	84	Pyridine	←	0.014	16
Methanol	←	5.6	0.75 mg/l ¹	Safrole	←	0.081	22
Methapyrilene	←	0.081	1.5	Silvex/2,4,5-TP	←	0.72	7.9
Methiocarb	←	0.056 ¹	1.4 ¹	1,2,4,5-Tetrachlorobenzene	←	0.055	14
Methomyl	←	0.028 ¹	0.14 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)	←	0.000063	0.001
Methoxychlor	← JW 2/22/2021	0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)	← JW 2/22/2021	0.000063	0.001
3-Methylcholanthrene	←	0.0055	15	1,1,1,2-Tetrachloroethane	←	0.057	6.0
4,4'-Methylene bis(2-chloroaniline)	←	0.50	30	1,1,2,2-Tetrachloroethane	←	0.057	6.0

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene	←	0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony	←	1.9	2.1 mg/l TCLP
Thiodicarb		0.0191	1.4 ¹	Antimony		1.9	1.15 mg/l TCLP ⁴
Thiophanate-methyl		0.0561	1.4 ¹	Arsenic		1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l TCLP ⁴
Triallate		0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP ⁴
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86 mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP ⁴
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30 ¹
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA ⁴
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l ⁴ TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate	Type 1004	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	<i>JW 2/22/2021</i>	0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of o-, m-, and p-xylene)	→	0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
				Thallium		1.4	0.078 mg/l TCLP ¹
	<i>JW 2/22/2021</i>			Thallium	<i>JW 2/22/2021</i>	1.4	0.20 mg/l TCLP ⁴
				Vanadium		4.3 ²	1.6 mg/l TCLP ²
				Zinc	→	2.61	4.3 mg/l TCLP ²

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

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

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

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

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

4875

please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 889000882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695055 JJK	
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053		
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TNR000011247		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84028 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	1. JN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, D007, PCB, Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 1398 MBq, fissile Excepted		1		CM	5552
13. Waste Codes D007 D008						
14. Special Handling Instructions and Additional Information Truck: 405 Trailer 4875 TID: N/A Accumulation Start Date: 11/04/20 PCB Start Date: 11/04/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802. PM02372 If undeliverable, return to generator						
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, hazard class, quantity, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name Lochelle Telfair on behalf of FRNP				Signature Lochelle Telfair		Month Day Year 12/23/21
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Willie Adams Signature Willie Adams Month Day Year 02/23/21						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number:						
18b. Alternate Facility (or Generator) Facility's Phone: Signature of Alternate Facility (or Generator)				RECEIVED 2/26/2021 U.S. EPA ID Number Month Day Year 2/26/21		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Albert Sims Signature Albert Sims Month Day Year 2/26/21				DESIGNATED FACILITY TO GENERATOR		

Manifest Number: 019695055 JJK

Shipment ID Number: 9750-01-0083

Shipment Date: 2/23/2021

UJHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-70	PAD20C44978	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/04/20	11/04/20	400	19,740	8,954	12,240	5,552	1,398
			Totals	1			400	19,740	8,954	12,240	5,552	1,398

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.

122023-70

PAD-WD-0598-R7-V9

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership (FRNP) Manifest Doc. No.: 019655555JK
 Profile No.: 9755-01-3083 State Manifest No.: NA

- Is 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 corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	D007	TCLP Chromium	<input type="checkbox"/>	A
2	D008	TCLP Lead	<input type="checkbox"/>	A
3			<input type="checkbox"/>	
4		<i>JW</i> 2/22/2021	<input type="checkbox"/>	

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 subcategory(s), use the supplemental sheet provided (Form A2) and check here:

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

- A. RESTRICTED WASTE REQUIRES TREATMENT**
 This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
 For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
- B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS**
 "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS**
 "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS**
 "I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- C. RESTRICTED WASTE SUBJECT TO A VARIANCE**
 This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
 For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
- D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT**
 "I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."
- E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS**
 This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.
 Signature JOSHUA NORMAN Title Waste Engineer Date 2021.02.22 09:58:31 -05'00'

12202370
LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

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

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

¹ All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.
² For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of the constituents or less than 10x the standard listed.
³ These solvents require a TCLP standard with units of mg/l.

SUBCATEGORY REFERENCE

- D001:
- A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.
 - B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.
 - C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) – Greater than or equal to 10% total organic carbon.
- D002:
- D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
 - E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

122023-20

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP

Manifest Doc. No.: 019695055 JJK

Profile No.: 9750-01-0083

State Manifest No.: NA

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

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

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

JN 2/22/2021

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: 2021.02.22 10:00:35 -05'00'

Title Waste Engineer Date _____

122023-70

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019695055 JJK

Profile No.: 9750-41-0583 State Manifest No.: NA

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

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

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

JN 2/22/2021

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: 2021.02.22 10:01:14 -05'00'
Title Waste Engineer Date _____

122023-70

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

Generator Name: FRNP

Manifest Doc. No.: 019695255 JJK

Profile No.: 9758-91-0083

State Manifest No.: NA

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

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene	←	0.059	3.4	2-Chloro-1,3-butadiene	←	0.057	0.28 ¹
Acenaphthene		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	Ju, 2/22/2021	0.056 ¹	0.28 ¹	Chloromethane/Methyl chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene	Ju, 2/22/2021	0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene	→	0.059	3.4
Aramite		0.36	NA	o-Cresol	A	0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol	A	0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol	A	0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate	←	0.056 ¹	1.4 ¹
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.056 ¹	1.4 ¹	o,p'-DDD		0.023	0.087
Bendiocarb		0.056 ¹	1.4 ¹	p,p'-DDD		0.023	0.087
Benomyl		0.056 ¹	1.4 ¹	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055 ¹	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³		0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo(g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.042 ¹	1.4 ¹	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006 ¹	0.14 ¹	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006 ¹	0.14 ¹	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056 ¹	1.4 ¹	2,6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane	Ju, 2/22/2021	0.85	18
Carbosulfan		0.028 ¹	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
p-Chloroaniline		0.46	16	Dieldrin		0.017	0.13
Chlorobenzene	→	0.057	6.0	Diethyl phthalate	→	0.20	28

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

122023-70

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 ⁵	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/Bromofom		0.63	15	Beryllium		0.82	1.22 mg/l TCLP ⁴
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP ⁴
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30 ¹
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA ⁴
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l ⁴ TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate	Type 2, 3 here	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	<i>JW 2/22/2021</i>	0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of o-, m-, and p-xylene)	→	0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
				Thallium		1.4	0.078 mg/l TCLP ¹
	<i>JW 2/22/2021</i>			Thallium	<i>JW 2/22/2021</i>	1.4	0.20 mg/l TCLP ⁴
				Vanadium		4.3 ²	1.6 mg/l TCLP ²
				Zinc	→	2.61	4.3 mg/l TCLP ²

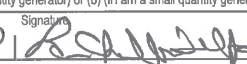
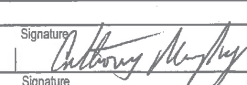
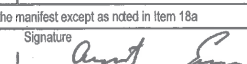
¹ These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes.

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

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

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

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019695059 JJK					
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd. Kevill, KY 42053							
6. Transporter 1 Company Name CAST Transportation			U.S. EPA ID Number COR000005389							
7. Transporter 2 Company Name			U.S. EPA ID Number							
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 435-884-0155			U.S. EPA ID Number UTD982598898							
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 588 MBq, Fissile Excepted		No.	Type	2336	K	D007	D008		
	2.									
	3.									
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>										
<p>14. Special Handling Instructions and Additional Information Truck: 1431 Trailer OTR 74 TID: N/A Accumulation Start Date: 11/04/20 PCB Start Date: 11/04/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info PM02378 Shipment ID: 9750-01-0084</p>										
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>										
Generator's/Offor's Printed/Typed Name Cashelle Taylor on behalf of FRNP						Signature 		Month Day Year 13 2 21		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____										
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Anthony Murphy							Signature 		Month Day Year 13 2 21	
Transporter 2 Printed/Typed Name _____							Signature _____		Month Day Year _____	
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number _____										
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ Facility's Phone: _____										
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.										
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name Albert Ems							Signature 		Month Day Year 13 5 21	

Alison L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695059 JJK

Shipment ID Number: 9750-01-0084

Shipment Date: 3/2/2021

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-71	PAD20C44566	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/04/20	11/04/20	400	13,040	5,915	5,150	2,336	588
Totals				1			400	13,040	5,915	5,150	2,336	588

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.

122523-71

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership (FRNP) Manifest Doc. No.: 017495059 JJK
Profile No.: 9250-01-0584 State Manifest No.: NA

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

Table with 5 columns: REF #, 3. US EPA HAZARDOUS WASTE CODE(S), 4. SUBCATEGORY (DESCRIPTION, NONE), 5. HOW MUST THE WASTE BE MANAGED? (ENTER LETTER FROM BELOW). Rows include D007 (TCLP Chromium), D008 (TCLP Lead), and a handwritten entry JW 2/22/2021.

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here [X]
If no UHCs are present in the waste upon its initial generation check here: []
To list additional USEPA waste code(s) and subcategory(ies), 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.

- A. RESTRICTED WASTE REQUIRES TREATMENT
B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
C. RESTRICTED WASTE SUBJECT TO A VARIANCE
D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
E. WASTE IS NOT CURRENTLY SUBJECT TO 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 (Affiliate) JOSHUA NORMAN Title Waste Engineer Date 2021.02.22 09:58:31 -05'00'

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

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

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

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

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

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

SUBCATEGORY REFERENCE

D001:

- A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.
- B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.
- C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) – Greater than or equal to 10% total organic carbon.

D002:

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

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019695059 JJK

Profile No.: 9750-01-0084 State Manifest No.: NA

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

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

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
5	←		<input type="checkbox"/>	
6			<input type="checkbox"/>	
7			<input type="checkbox"/>	
8			<input type="checkbox"/>	
9			<input type="checkbox"/>	
10			<input type="checkbox"/>	
11			<input type="checkbox"/>	
12			<input type="checkbox"/>	
13			<input type="checkbox"/>	
14			<input type="checkbox"/>	
15			<input type="checkbox"/>	
16			<input type="checkbox"/>	
17			<input type="checkbox"/>	
18			<input type="checkbox"/>	
19			<input type="checkbox"/>	
20			<input type="checkbox"/>	
21			<input type="checkbox"/>	
22			<input type="checkbox"/>	
23			<input type="checkbox"/>	
24			<input type="checkbox"/>	
25		<i>JN</i> 9/24/2020	<input type="checkbox"/>	
26			<input type="checkbox"/>	
27			<input type="checkbox"/>	
28			<input type="checkbox"/>	
29			<input type="checkbox"/>	
30			<input type="checkbox"/>	
31			<input type="checkbox"/>	
32			<input type="checkbox"/>	
33			<input type="checkbox"/>	
34			<input type="checkbox"/>	
35	←		<input type="checkbox"/>	→

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: 2020.09.24 09:27:11 -04'00'

Title Waste Engineer Date _____

12223-71

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019695059 JJK

Profile No.: 9250-01-0084 State Manifest No.: NA

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

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

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
36	←		<input type="checkbox"/>	
37			<input type="checkbox"/>	
38			<input type="checkbox"/>	
39			<input type="checkbox"/>	
40			<input type="checkbox"/>	
41			<input type="checkbox"/>	
42			<input type="checkbox"/>	
43			<input type="checkbox"/>	
44			<input type="checkbox"/>	
45			<input type="checkbox"/>	
46			<input type="checkbox"/>	
47			<input type="checkbox"/>	
48			<input type="checkbox"/>	
49			<input type="checkbox"/>	
50			<input type="checkbox"/>	
51		<i>JN</i> 9/24/2020	<input type="checkbox"/>	
52			<input type="checkbox"/>	
53			<input type="checkbox"/>	
54			<input type="checkbox"/>	
55			<input type="checkbox"/>	
56			<input type="checkbox"/>	
57			<input type="checkbox"/>	
58			<input type="checkbox"/>	
59			<input type="checkbox"/>	
60			<input type="checkbox"/>	
61			<input type="checkbox"/>	
62			<input type="checkbox"/>	
63			<input type="checkbox"/>	
64			<input type="checkbox"/>	
65	↔		<input type="checkbox"/>	↔

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: 2020.09.24 09:27:47 -04'00'

Title Waste Engineer Date _____

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

Generator Name: FRNP

Manifest Doc. No.: 019695059 JJK

Profile No.: 9750-01-0084

State Manifest No.: NA

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

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

12523-71

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

122023-71

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene	←	0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony	←	1.9	2.1 mg/l TCLP
Thiodicarb		0.0191	1.4 ¹	Antimony		1.9	1.15 mg/l TCLP ⁴
Thiophanate-methyl		0.0561	1.4 ¹	Arsenic		1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l TCLP ⁴
Triallate		0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP ⁴
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP ⁴
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30 ¹
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA ⁴
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l ⁴ TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate	0.11	0.10 ¹	Nickel		3.98	11 mg/l TCLP ⁴	
Vernolate	<i>JW</i> 9/24/2020 0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP	
Vinyl chloride		0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of o-, m-, and p-xylene)	→	0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
				Thallium		1.4	0.078 mg/l TCLP ¹
	<i>JW</i> 9/24/2020			Thallium	<i>JW</i> 9/24/2020	1.4	0.20 mg/l TCLP ⁴
				Vanadium		4.3 ²	1.6 mg/l TCLP ²
	→			Zinc	→	2.61	4.3 mg/l TCLP ²

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

Please print or type.

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8990008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695071 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5025			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053				
6. Transporter 1 Company Name Tri-State Motor Transit			U.S. EPA ID Number MOD005038998				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155			U.S. EPA ID Number UTD982598898				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
		1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), To-99, U-234, Solid/Oxide, 2656 MBq, Fissile Excepted	4	CM	1854	K	
		2. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Pu-239, To-99, Th-230, U-234, Solid/Oxide, 676 MBq, Fissile Excepted	1	CM	1024	K	
		3.					
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.							
14. Special Handling Instructions and Additional Information Truck: 205042 Trailer 848529 TID: N/A Accumulation Start Date: N/A PCB Start Date: 10/16/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info 9209204 Shipment ID: 7340-08-0012							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Regina Pen on behalf of FRNP		Signature Regina Pen		Month Day Year 03/04/21			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
TRANSPORTER INTL	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Tri State Motor Transit		Signature		Month Day Year 3/8/21		
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number: U.S. EPA ID Number						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2. H132		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albert Evans		Signature Albert Evans		Month Day Year 3/8/21			

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

RECEIVED ON 3/8/2021

DESIGNATED FACILITY TO GENERATOR

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695071JJK

Shipment ID Number: 7340-08-0012

Shipment Date: 3/4/2021

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122179	122179-01	PAD20C44946	EPOXY PAINT CHIPS, VEGETATION & PPE AT BOTH C-340 AND C-410	10/16/20	85	2102	953	1298	589	676
9b.1	122193	122193-01	PAD20C44949	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/06/20	85	1944	882	1140	517	660
9b.2	122193	122193-02	PAD20C44738	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/13/20	85	3062	1389	2258	1024	676
9b.1	122193	122193-03	PAD20C44739	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/20/20	83	1686	765	882	400	660
9b.1	122235	122235-01	PAD21C46141	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	01/22/21	85	1572	713	767	348	660
		Totals	5			423	10366	4702	6345	2878	3332

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone XXXXXXXXXX	4. Manifest Tracking Number 019695091 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) 5511 Hobbs Road, Kevil, KY 42053				Generator's Site Address (if different than mailing address) FRNP Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053					
6. Transporter 1 Company Name Interstate Ventures, Inc.				U.S. EPA ID Number TNR000034678					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 49, Clive, UT 84029				U.S. EPA ID Number UTD882608898					
Facility's Phone: 1-435-884-0155									
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
RQ	1. UN 3321, Radioactive material, low specific activity (LSA-II), 7, (PCB), Th-230, U-234, Solid/Oxide, 70 MBq, Fissile Excepted			1	CM	44	K		
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information Truck: Van: 53017 TID: 0349573 Accumulation Start Date: N/A PCB Start Date: 08/17/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 7340-08-0013									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name Lochelle Telfair on behalf of FRNP				Signature <i>Lochelle Telfair</i>			Month Day Year 13 29 21		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name J. TOUSIGNANT				Signature <i>J. Toussignant</i>			Month Day Year 13 29 21		
Transporter 2 Printed/Typed Name				Signature			Month Day Year		
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) received 4-19-2021 Manifest Reference Number: _____ U.S. EPA ID Number _____									
Facility's Phone: TS US Mail									
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Scott A. Gleason				Signature <i>Scott A. Gleason</i>			Month Day Year 04 01 21		

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695091 JJK

Shipment ID Number: 7340-08-0013

Shipment Date: 3/29/2021

UHM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq	
9b.1	122143	122143-01	PAD20C44608	PCB Contaminated Filters and DAW	08/17/20	75	902	409	97	44	70	
Totals						1	75	902	409	97	44	70

received
 4-19-2021
 TS us mail

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Contact FRNP	4. Manifest Tracking Number 019695093 JJK	
5. Generator Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) 5511 Hobbs Road, Kevil, KY 42053		Generator Site Address (if different than mailing address) Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053				
6. Transporter 1 Company Name Interstate Ventures, Inc.		U.S. EPA ID Number TNR000034678				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Waste Treatment Facility US I-80 Exit 49, Clive, UT 84029		U.S. EPA ID Number UTD982508898				
Facility's Phone: 1-435-894-0155						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 3082, Environmentally hazardous substance, liquid, n.o.s. (PCB), 9, III, (PCB)	1	DM	196	K	
	2.					
	3.					
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.						
14. Special Handling Instructions and Additional Information PR09214 Shipment ID: 9759-04-0008 Truck: Van: 53017 TID: 0349573 Accumulation Start Date: N/A PCB Start Date: 08/11/20 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator						
15. GENERATOR'S CERTIFICATION I certify that the contents of this consignment are fully and accurately described above by the person who prepared this manifest, are properly packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name Lochlan Telfair on behalf of FRNP		Signature <i>Lochlan Telfair</i>			Month Day Year 3 29 21	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: J. T. Osiguan Signature: <i>J. T. Osiguan</i> Month Day Year: 3 29 21						
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) received 4-19-2021		Manifest Reference Number: _____ U.S. EPA ID Number: _____				
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator) TS US mail					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Stott A. Gleason		Signature <i>Stott A. Gleason</i>			Month Day Year 04 01 21	

Manifest Number: 019695093 JJK

Shipment ID Number: 9750-04-0008

Shipment Date: 3/29/2021

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	121999	121999-03	PAD20C44095	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	08/11/20	6.7	488	221	432	196
Totals					1	6.7	488	221	432	196

received
 4-19-2021
 TS us mail

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695128 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053			
6. Transporter 1 Company Name CAST Transportation		U.S. EPA ID Number COR000005389		7. Transporter 2 Company Name U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029				U.S. EPA ID Number UTD982598898			
Facility's Phone: 1-435-884-0155		UTD982598898					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
RQ ¹	UN 3082, Environmentally hazardous substance, liquid, n.o.s., (PCB), 9, PG III	1	DM	204	K		
RQ ²	UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Am-241, Pu-238, Pu-239, Tc-99, Th-230, Liquid/Oxide, 0.3 MBq, Fissile Excepted	1	DM	134	K		
RQ ³	UN 3082, Environmentally hazardous substance, liquid, n.o.s., (PCB), 9, PG III	1	DM	201	K		
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>							
14. Special Handling Instructions and Additional Information Truck: 1430 Trailer: 525 TID: 0349100 Accumulation Start Date: N/A PCB Start Date: 09/29/20 ERG # 182, 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info PR09229 Shipment ID: 9750-04-0000							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Regina Pea on behalf of FRNP				Signature Regina Pea		Month Day Year 05 25 21	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: DENNIS MELTON Signature: Dennis Melton Month Day Year: 5 25 21 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ 18b. Alternate Facility (or Generator) received 5-28-21 U.S. EPA ID Number: _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) TS email Month Day Year: _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	H132	2.	H132	3.	H132	4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Albert Ems Signature: Albert Ems Month Day Year: 5 28 21							

PCB & Additional Information Attachment, Page 2 of 2

Manifest Number: 019695128 JJK

Shipment ID Number: 9750-04-0009

Shipment Date: 5/25/2021

UHM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	121999	121999-05	PAD20C45075	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	10/29/20	7.1	506	230	450	204	N/A
9b.2	122252	122252-01	PAD21C46084	VENTILATION DUCT OIL AND WATER	01/25/21	5.28	351	159	295	134	0.3
9b.3	121999	121999-04	PAD20C45074	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	09/29/20	6.7	500	227	444	201	N/A
Totals			3			19.08	1357	616	1189	539	0.3

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Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008862	2. Page 1 of 3	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695148 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5025				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053				
6. Transporter 1 Company Name Interstate Ventures, Inc.				U.S. EPA ID Number TNR000034678				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 40, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
RQ	1. UN2912, Waste, Radioactive Material, low level specific activity (LSA-I), 7, (D006, PCB), Np-237, Tc-99, Th-230, U-234, Solid Oxide, 53 MBq, Fissile Exempted	1	DM	38	K	D006	D007	D008
RQ	2. UN3321, Waste, Radioactive Material, low level specific activity (LSA-II), 7, (D006, PCB), Np-237, Tc-99, Th-230, U-234, Solid Oxide, 53 MBq, Fissile Exempted	1	DM	28	K	D006	D007	D008
RQ	3. UN3321, Waste, Radioactive Material, low level specific activity (LSA-II), 7, (D006, PCB), Am-241, Np-237, Pu-238, Pu-239, Tc-99, Th-230, U-234, Solid Oxide, 255 MBq, Fissile Exempted	3	DM	78	K	D006	D007	D008
RQ	4. UN3321, Waste, Radioactive Material, low level specific activity (LSA-II), 7, (D006, D007), Am-241, Np-237, Th-230, Solid Oxide, 8 MBq, Fissile Exempted	1	DM	53	K	D006	D007	D008
14. Special Handling Instructions and Additional Information Truck: H59 Trailer ##### TID: 349640 Accumulation Start Date: 12/29/20 PCB Start Date: 03/04/21 ERG # 182 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use, See Attachment for Additional Info <i>PM02414</i> Shipment ID: 9750-03-0005								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offendor's Printed/Typed Name <i>Regina Pea on behalf of FRNP</i>				Signature <i>Regina Pea</i>		Month <i>6</i>	Day <i>21</i>	Year <i>21</i>
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name <i>Michael Davis</i>				Signature <i>Michael Davis</i>		Month <i>6</i>	Day <i>21</i>	Year <i>21</i>
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ Facility's Phone: received 7-6-2021								
18c. Signature of Alternate Facility (or Generator) <i>TS US mail</i>						Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.	<i>H132</i>	2.	<i>H132</i>	3.	<i>H132</i>	4.	<i>H132</i>	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name <i>Albert Ems</i>				Signature <i>Albert Ems</i>		Month <i>6</i>	Day <i>24</i>	Year <i>21</i>

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number KY 8890008982	22. Page 2	23. Manifest Tracking Number 019695148JJJ				
24. Generator's Name Four Rivers Nuclear Partnership, LLC, on behalf of the U.S. Department of Energy 5511 Hobbs Road, Kevll, KY 42053								
25. Transporter _____ Company Name Interstate Ventures, Inc.				U.S. EPA ID Number TNR000034678				
26. Transporter _____ Company Name				U.S. EPA ID Number				
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type			F001	F002	U228
RG	UN2912, Waste, Radioactive Material, low level specific activity (LSA-I), 7, (F001, PCB), Np-237, Pu-238, Pu-239, To-99, Th-230, Solid Oxide, 133 MBq, Fissile Excepted	1	CM	3671	K			
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="font-size: 2em; margin: 0;">received</p> <p style="font-size: 1.5em; margin: 0;">7-6-2021</p> <p style="font-size: 1.5em; margin: 0;">US mail TS</p> </div>								
32. Special Handling Instructions and Additional Information <div style="display: flex; justify-content: space-between;"> ERG # 162 In the event of an RQ Release, call 1-800-424-8802 Accumulation Start Date: 12/29/20 </div> <p>EXCLUSIVE USE SHIPMENT, See Attachment for Additional Info If undeliverable, return to generator Shipment ID: 9750-03-0005</p>								
33. Transporter _____ Acknowledgment of Receipt of Materials								
Printed/Typed Name Michael Davis		Signature Michael Davis			Month 6	Day 21	Year 21	
34. Transporter _____ Acknowledgment of Receipt of Materials								
Printed/Typed Name		Signature			Month	Day	Year	
35. Discrepancy								
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
H132								

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

Additional Information Attachment, Page 3 of 3

Manifest Number: 019695148JJK

Shipment ID Number: 9750-03-0005

Shipment Date: ~~6/10/2021~~ ^{5/10/22}
6/21/2021

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date To Storage	NET VOLUME (ft3)	Maximum Activity (MBq)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)
9b.1	121650	121650-26	PAD20C44582	LEAD WASTE (GRAVEL, PAINT CHIPS, PPE)	12/29/20	N/A	7	53	140	64	84	38
9b.2	121650	121650-27	PAD20C44296	LEAD WASTE (GRAVEL, PAINT CHIPS, PPE)	12/30/20	N/A	7	53	118	54	62	28
9b.2	121650	121650-28	PAD21C46197	LEAD WASTE	03/16/21	N/A	7	94	123	56	67	30
9b.3	121650	121650-29	PAD21C46763	LEAD WASTE	03/16/21	N/A	6	73	102	46	46	21
9b.4	121650	121650-30	PAD21C46764	LEAD WASTE	03/25/21	N/A	7	88	114	52	58	26
9b.4	121761	121761-06	PAD19C43127	Floor Sweep	04/21/21	N/A	5.9	9	173	78	117	53
28b.1	122306	122306-01	PAD21C46754	EXCAVATED SOIL	03/04/21	03/04/21	90	133	9336	4235	8094	3671
		Totals	7				129.9	503	10106	4584	8528	3868

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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.

9750-03-0005

PAD-ENR-0144-V1

122306-01

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No.: 019695148 JSJK
 Profile No.: 9750-03 State Manifest No.: NIA

- Is 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 corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001	Spent halogenated solvents used in degreasing	<input type="checkbox"/>	A
2	F002	Spent halogenated solvents	<input type="checkbox"/>	A
3	U228	Trichloroethylene	<input type="checkbox"/>	A
4		FO 64/06/2021	<input type="checkbox"/>	

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 subcategory(ies), use the supplemental sheet provided (Form A2) and check here:

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

- A. RESTRICTED WASTE REQUIRES TREATMENT**
 This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
 For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
- B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS**
 "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS**
 "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS**
 "I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- C. RESTRICTED WASTE SUBJECT TO A VARIANCE**
 This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
 For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
- D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT**
 "I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."
- E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS**
 This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

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

Signature FRANKLIN OVERBY (Affiliate) Digitally signed by FRANKLIN OVERBY (Affiliate) Date: 2021.04.07 11:30:50 -05'00' Title Waste Engineer Date 04/06/2021

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

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

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

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

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

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

SUBCATEGORY REFERENCE

D001:

- A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.
- B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.
- C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) – Greater than or equal to 10% total organic carbon.

D002:

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

Form A1
Page 2 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 019695148JPK

Profile No.: 9750-03 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? Enter letter from Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

REF #	3. USEPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
5			<input type="checkbox"/>	
6			<input type="checkbox"/>	
7			<input type="checkbox"/>	
8			<input type="checkbox"/>	
9			<input type="checkbox"/>	
10			<input type="checkbox"/>	
11			<input type="checkbox"/>	
12			<input type="checkbox"/>	
13			<input type="checkbox"/>	
14			<input type="checkbox"/>	
15			<input type="checkbox"/>	
16			<input type="checkbox"/>	
17			<input type="checkbox"/>	
18			<input type="checkbox"/>	
19			<input type="checkbox"/>	
20		FO	<input type="checkbox"/>	
21		04/06/2021	<input type="checkbox"/>	
22			<input type="checkbox"/>	
23			<input type="checkbox"/>	
24			<input type="checkbox"/>	
25			<input type="checkbox"/>	
26			<input type="checkbox"/>	
27			<input type="checkbox"/>	
28			<input type="checkbox"/>	
29			<input type="checkbox"/>	
30			<input type="checkbox"/>	
31			<input type="checkbox"/>	
32			<input type="checkbox"/>	
33			<input type="checkbox"/>	
34			<input type="checkbox"/>	
35			<input type="checkbox"/>	

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: 2021.04.07 11:31:38 -05'00'

Title Waste Engineer Date 04/06/2021

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 019695148 JSJK

Profile No.: 9750-03 State Manifest No.: NIA

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. USEPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
36			<input type="checkbox"/>	
37			<input type="checkbox"/>	
38			<input type="checkbox"/>	
39			<input type="checkbox"/>	
40			<input type="checkbox"/>	
41			<input type="checkbox"/>	
42			<input type="checkbox"/>	
43			<input type="checkbox"/>	
44			<input type="checkbox"/>	
45			<input type="checkbox"/>	
46			<input type="checkbox"/>	
47			<input type="checkbox"/>	
48			<input type="checkbox"/>	
49			<input type="checkbox"/>	
50			<input type="checkbox"/>	
51		FO	<input type="checkbox"/>	
52		04/06/2021	<input type="checkbox"/>	
53			<input type="checkbox"/>	
54			<input type="checkbox"/>	
55			<input type="checkbox"/>	
56			<input type="checkbox"/>	
57			<input type="checkbox"/>	
58			<input type="checkbox"/>	
59			<input type="checkbox"/>	
60			<input type="checkbox"/>	
61			<input type="checkbox"/>	
62			<input type="checkbox"/>	
63			<input type="checkbox"/>	
64			<input type="checkbox"/>	
65			<input type="checkbox"/>	

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: 2021.04.07 11:32:24 -05'00'

Title Waste Engineer Date 04/06/2021

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

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No. : 019695148JJK

Profile No.: 9750-03 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
Acenaphthene		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	FO	0.055	7.2
Acylamide		19 ¹	23 ¹	p-Chloro-m-cresol	04/06/2021	0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.062 ¹	NA ¹
Aldicarb sulfone		0.056 ¹	0.28 ¹	Chloromethane/Methyl chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene	→	0.059	3.4
Aramite		0.36	NA	o-Cresol	A	0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol	A	0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol	A	0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate	←	0.056 ¹	1.4 ¹
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.056 ¹	1.4 ¹	o,p'-DDD		0.023	0.087
Bendiocarb		0.056 ¹	1.4 ¹	p,p'-DDD		0.023	0.087
Benomyl		0.056 ¹	1.4 ¹	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride	FO	0.055 ¹	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³	04/06/2021	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	FO	0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene	04/06/2021	0.090	6.0
Butylate		0.042 ¹	1.4 ¹	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006 ¹	0.14 ¹	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006 ¹	0.14 ¹	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056 ¹	1.4 ¹	2,6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan		0.028 ¹	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
p-Chloroaniline		0.46	16	Dieldrin		0.017	0.13
Chlorobenzene	→	0.057	6.0	Diethyl phthalate	→	0.20	28

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate		0.10	NA	p-Dimethylaminoazobenzene		0.13 ¹	NA
2,4-Dimethyl phenol		0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate		0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate		0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	NA
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.056 ¹	1.4 ¹
2,6-Dinitrotoluene		0.55	28	Mexacarbate		0.056 ¹	1.4 ¹
Di-n-octyl phthalate		0.017	28	Mollinate		0.042 ¹	1.4 ¹
Di-n-propylnitrosamine		0.40	14	Naphthalene		0.059	5.6
1,4-Dioxane		12.0	170	2-Naphthylamine		0.52	NA
Diphenylamine ³		0.92	13 ¹	o-Nitroaniline	FO	0.27 ¹	14 ¹
Diphenylnitrosamine ³		0.92	13 ¹	p-Nitroaniline	04/06/2021	0.028	28
1,2-Diphenylhydrazine		0.087	NA	Nitrobenzene		0.068	14
Disulfoton		0.017	6.2	5-Nitro-o-toluidine		0.32	28
Dithiocarbamates (total)		0.028	28 ¹	o-Nitrophenol		0.028 ¹	13 ¹
Endosulfan I		0.023	0.066	p-Nitrophenol		0.12	29
Endosulfan II		0.029	0.13	N-Nitrosodiethylamine		0.40	28
Endosulfan sulfate		0.029	0.13	N-Nitrosodimethylamine		0.40	2.3 ¹
Endrin		0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17
Endrin aldehyde		0.025	0.13	N-Nitrosomethylethylamine		0.40	2.3
EPTC		0.042 ¹	1.4 ¹	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate		0.34	33	N-Nitrosopiperidine		0.013	35
Ethyl benzene		0.057	10	N-Nitrosopyrrolidine		0.013	35
Ethyl cyanide/Propanenitrile		0.24	360	Oxamyl		0.056 ¹	0.28 ¹
Ethyl ether		0.12	160	Parathion		0.014	4.6
Bis(2-Ethylhexyl)phthalate		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)	A	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	FC	0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene	04/06/2021	0.068	3.4	PeCDFs(All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene		0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride		0.056 ¹	1.4 ¹	Pentachloronitrobenzene		0.055	4.8
Heptachlor		0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide		0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene		0.055	5.6	Phenol		0.039	6.2
Hexachlorocyclopentadiene		0.057	2.4	Phorate		0.021	4.6
HxCDDs (All Hexachlorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid	FO	0.055 ¹	28 ¹
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride	04/06/2021	0.055	28 ¹
Hexachloroethane		0.055	30	Physostigmine		0.056 ¹	1.4 ¹
Hexachloropropylene		0.035	30	Physostigmine salicylate		0.056 ¹	1.4 ¹
Indeno(1,2,3-c,d)pyrene		0.0055	3.4	Promecarb		0.056 ¹	1.4 ¹
Iodomethane		0.19	65	Pronamide		0.093	1.5
Isobutyl alcohol		5.6	170	Propham		0.056 ¹	1.4 ¹
Isodrin		0.021	0.066	Propoxur		0.056 ¹	1.4 ¹
Isosafrole		0.081	2.6	Prosulfocarb		0.042 ¹	1.4 ¹
Kepone		0.0011	0.13	Pyrene		0.067	8.2
Methacrylonitrile		0.24	84	Pyridine		0.014	16
Methanol		5.6	0.75 mg/l ¹	Safrole		0.081	22
Methapyrilene		0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb		0.056 ¹	1.4 ¹	1,2,4,5-Tetrachlorobenzene		0.055	14
Methomyl		0.028 ¹	0.14 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor		0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)		0.000063	0.001
3-Methylcholanthrene		0.0055	15	1,1,1,2-Tetrachloroethane		0.057	6.0
4,4'-Methylene bis(2-chloroaniline)		0.50	30	1,1,2,2-Tetrachloroethane		0.057	6.0

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	FO	0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane	04/06/2021	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)	FO	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	04/06/2021	0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l ⁴ TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate		0.11	0.10 ¹	Nickel		3.98	11 mg/l TCLP ⁴
Vernolate		0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride		0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of o-, m-, and p-xylene)		0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
	FO			Thallium		1.4	0.078 mg/l TCLP ¹
	04/06/2021			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

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.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8835	4. Manifest Tracking Number 019695153 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of the U.S. Department of Energy 5511 Hobbs Road, Kevil, KY 42053			Generator's Site Address (if different than mailing address) FRNP Four Rivers Nuclear Partnership, LLC Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053				
6. Transporter 1 Company Name Interstate Ventures, Inc.			U.S. EPA ID Number TNR000034678				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 49, Clive, UT 84029 1-435-884-0155			U.S. EPA ID Number UTD982598898				
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	RQ	1. UN 2812, Radioactive material, low specific activity (LSA-I), 7, (PCB), Np-237, Pu-238, Pu-239, TC-99, Th-230, U-234, Solid/Oxide, 0.7 MBq, Fissile Excepted	1	DM	1	K	
	RQ	2. UN 3321, Radioactive material, low specific activity (LSA-II), 7, (PCB), Np-237, Pu-238, Pu-239, Tc-99, U-234, Solid/Oxide, 76.7 MBq, Fissile Excepted	1	DM	21	K	
	RQ	3. UN 3321, Radioactive material, low specific activity (LSA-II), 7, (PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 223.9 MBq, Fissile Excepted	1	DM	51	K	
	4. Fissile Excepted						
14. Special Handling Instructions and Additional Information Truck #159 van #33006 TID: 0349646 PC09237 PCB Start Date: 07/23/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See PCB Attachment for Additional Info Shipment ID: 7340-08-0014							
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, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Leah Teffier on behalf of FRNP			Signature <i>Leah Teffier</i>		Month Day Year 6 21 21		
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Michael Davis Signature <i>Michael Davis</i> Month Day Year 6 21 21						
	Transporter 2 Printed/Typed Name Signature Month Day Year						
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator)			Manifest Reference Number: U.S. EPA ID Number			
	Facility's Phone: 18c. Signature of Alternate Facility (or Generator) us mail P3 Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2. H132		3. H132		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albert Ems			Signature <i>Albert Ems</i>		Month Day Year 6 24 21		

Manifest Number: 019695153 JJK

Shipment ID Number: 7340-08-0014

Shipment Date: 6/21/2021

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	122128	122128-01	PAD20C44428	POTENTIALLY PCB CONTAMINATED PPE & PLASTIC	08/12/20	0.5	12	5	3	1	0.7
9b.2	122106	122106-01	PAD20C44757	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	07/23/20	2.5	77	35	47	21	76.7
9b.2	121998	121998-04	PAD20C44800	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	09/21/20	7.3	168	76	112	51	223.9
Totals			3			10.3	257	117	162	73	301.3

received

7-6-2021

US mail TS

A-53

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-421-6833	4. Manifest Tracking Number 019695154 JJK						
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053							
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TNR000011247							
7. Transporter 2 Company Name				U.S. EPA ID Number							
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 49, Clive, UT 84028				U.S. EPA ID Number UTD982598898							
Facility's Phone: 1-435-884-0155				UTD982598898							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
				No.	Type						
RQ	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB, Beryllium), Pu-238, Pu-239, Tc-99, Th-230, U-234, Solid/Oxide, 676 MBq, Fissile Excepted			1	CM	380	K				
RQ	2. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Pu-238, Pu-239, Tc-99, Th-230, U-234, Solid/Oxide, 1917 MBq, Fissile Excepted			3	CM	1828	K				
	3.										
	4.										
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> received 7-6-2021 </div>											
14. Special Handling Instructions and Additional Information Truck: 396 Flatbed: 4860 US Mail ^{TS} Accumulation Start Date: N/A PCB Start Date: 01/12/21 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PR09236 Shipment ID: 7340-08-0015											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offeror's Printed/Typed Name LC Shell Telfair on behalf of FRNP							Signature <i>LC Shell Telfair</i>		Month 6	Day 18	Year 21
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name Lyle G Allison				Signature <i>Lyle G Allison</i>			Month 6	Day 18	Year 21		
Transporter 2 Printed/Typed Name				Signature			Month	Day	Year		
18. Discrepancy											
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
18b. Alternate Facility (or Generator) U.S. EPA ID Number											
Facility's Phone:											
18c. Signature of Alternate Facility (or Generator) Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H132		2. H132		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Albert Ems				Signature <i>Albert Ems</i>			Month 6	Day 21	Year 21		

Manifest Number: 019695154 JJK

Shipment ID Number: 7340-08-0015

Shipment Date: 6/18/2021

UHM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET Wt (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122235	122235-02	PAD21C46144	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	01/23/21	85	1598	724.84	794	360	676
9b.2	122193	122193-04	PAD21C46142	EPOXY PAINT CHIPS, VEGETATION AND PPE	01/12/21	75	3079	1396.60	1848	838	597
9b.2	122193	122193-05	PAD21C46866	EPOXY PAINT CHIPS, VEGETATION AND PPE	04/12/21	83	1783	808.75	552	250	660
9b.2	122193	122193-06	PAD21C46510	EPOXY PAINT CHIPS, VEGETATION AND PPE	04/27/21	83	2418	1096.78	1626	738	660
		Totals	4			326	8878	4027	4820	2186	2593

received
 7-6-2021
 US mail TS

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 1	3. Emergency Response Phone No. 270-441-8333	4. Manifest Tracking Number 019695194 JJK
5. Generator Name and Address (if different than mailing address) Paducah River Wonders Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053		Generator's Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevill, KY 42053			
Generator's Phone:					
6. Transporter 1 Company Name Specialty Transport Inc.		U.S. EPA ID Number TNR000011247			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 49, Clive, UT 84029		U.S. EPA ID Number UTD882598898			
Facility's Phone:		1-435-884-0155			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	RC1. UN 3077, Environmentally hazardous substance, solid, n.o.s. (PCB), 9, PG-III	1 1 CM		3783	K
14. Special Handling Instructions and Additional Information Truck: 401 Flatbed: 4872 Accumulation Start Date: N/A PCB Start Date: 05/13/21 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See PCB Attachment for Additional Info P209245 Shipment ID: 7340-08-0016					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offerior's Printed/Typed Name L. Cheels, K. Fair on behalf of FRNP		Signature <i>[Signature]</i>		Month 7	Day 29
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:			
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Justin M. Reeves		Signature <i>[Signature]</i>		Month 7	Day 27
Transporter 2 Printed/Typed Name		Signature		Month	Day
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator) received 8-2-21 Manifest Reference Number: U.S. EPA ID Number					
18c. Signature of Alternate Facility (or Generator) TS email Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1.	2.	3.	4.		
4132					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a					
Printed/Typed Name Albert Guss		Signature <i>[Signature]</i>		Month 8	Day 2

PCB & Additional Information Attachment, Page 2 of 2

Manifest Number: 019695194 JJK

Shipment ID Number: 7340-08-0016

Shipment Date: 7/29/2021

UHM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (RS)	GROSS WT (lb)	Gross Wt (Kg)	NET Wt (lb)	Net Wt (Kg)
9b.1	122406	122406-01	PAD21C47348	LLW PCB EXCESS EQUIPMENT FOR OFFSITE DISPOSAL	05/13/21	550	15840	7184.87	8340	3783
		Totals				550	15840	7185	8340	3783

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Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695216 JJK							
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5025				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053								
6. Transporter 1 Company Name Tri-State Motor Transit				U.S. EPA ID Number MOD095038998								
7. Transporter 2 Company Name				U.S. EPA ID Number								
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site- Waste Treatment Facility Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898								
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes				
		1. UN3077, Environmentally hazardous substance, solid, n.o.s., (PCB), 8, PG II		No.	Type	30	K					
		2.										
		3.										
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>												
<p>14. Special Handling Instructions and Additional Information Truck: 205025 Trailer 194069 TID: 0349611 Accumulation Start Date: N/A PCB Start Date: 11/05/20 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See Attachment for Additional Info PR09249 Shipment ID: 7340-06-0002</p>												
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>												
Generator's/Officer's Printed/Typed Name Regina Pea on behalf of FRNP							Signature Regina Pea		Month 08	Day 20	Year 21	
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
	17. Transporter Acknowledgment of Receipt of Materials											
	Transporter 1 Printed/Typed Name STEVEN R RALPH				Signature [Signature]				Month 8		Day 20	Year 21
Transporter 2 Printed/Typed Name				Signature				Month		Day	Year	
DESIGNATED FACILITY	18. Discrepancy											
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
	18b. Alternate Facility (or Generator)				Manifest Reference Number:				U.S. EPA ID Number			
	Facility's Phone:				Signature [Signature]				Month		Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)												
1. H132		2.		3.		4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a												
Printed/Typed Name Albert Gs							Signature [Signature]		Month 8	Day 24	Year 21	

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695216JJK

Shipment ID Number: 7340-06-0002

Shipment Date: 8/20/2021

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Date To Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	124500 121998	121998-05	PAD20C45076	Vent Duct Trough	11/05/20	7.4	142	64	86	39
		Totals	1			7.40	142	64	86	38

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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.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019695234 JJK	
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC. (FRNP) on behalf of the U.S. Department of Energy 5511 Hobbs Road, Kevil, KY 42053			Generator's Site Address (if different than mailing address) FRNP on behalf of the U.S. Department of Energy Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053			
6. Transporter 1 Company Name Tri-State Motor Transit			U.S. EPA ID Number MOD085038888			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 49, Clive, UT 84029			U.S. EPA ID Number UTD982598888			
Facility's Phone: 1-435-884-0155						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1.	UN 3082, Environmentally hazardous substances, liquid, n.o.s. (PCB), 9, PG III	1	DM	203	K	
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information Truck: 225011 Van: 194016 TID: 0349605 PCB Start Date: 03/15/21 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment See PCB Attachment for Additional Info Shipment ID: 9790-04-0010						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Blake Cleary			Signature Blake Cleary		Month Day Year 10 28 21	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Beverly Green Signature: Beverly Green Month Day Year: 10 28 21 Transporter 2 Printed/Typed Name: Signature: Month Day Year:						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
Facility's Phone: 70-1-2021						
18c. Signature of Alternate Facility (or Generator) TS email Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	H132	2.		3.	4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Albert Fms Signature: Albert Fms Month Day Year: 10 1 21						

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 016695234JJK

Shipment ID Number: 9750-04-0010

Shipment Date: 9/28/2021

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (G3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)
9b.1	122252	122252-02	PAD21C48179	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	03/15/21	6.7	503	228	447	203
Totals			1			6.7	503	228	447	203

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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.

Please print or type.

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695252 JJK					
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC. (FRNP) on behalf of the U.S. Department of Energy 5511 Hobbs Road, Kevill, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the U.S. Department of Energy Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevill, KY 42053						
6. Transporter 1 Company Name CAST Transportation					U.S. EPA ID Number COR000005389					
7. Transporter 2 Company Name					U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 49, Clive, UT 84029					U.S. EPA ID Number UTD982598898					
Facility's Phone: 1-435-884-0155										
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1.	UN 3077, Environmentally hazardous substances, solid, n.o.s., (PCB), 9, PG III		2	CM	457	K			
	2.									
	3.									
	4.									
14. Special Handling Instructions and Additional Information Truck: 1456 Trailer: OTR 95 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 See PCB Attachment for Additional Info								PCB Start Date: 06/04/21 If undeliverable, return to generator Shipment ID: 7340-08-0017		
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name Blake Cleary								Signature Blake Cleary		Month Day Year 10 14 21
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Part of entry/exit: _____ Date leaving U.S.: _____										
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name JAY A WILLIAMS					Signature JAY A WILLIAMS			Month Day Year 10 14 21	
Transporter 2 Printed/Typed Name					Signature			Month Day Year		
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	18b. Alternate Facility (or Generator)					Manifest Reference Number: _____ U.S. EPA ID Number _____				
Facility's Phone:					18c. Signature of Alternate Facility (or Generator) TS email					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H132		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Albert Gans					Signature Albert Gans			Month Day Year 10 18 21		

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695252.JJK

Shipment ID Number: 7340-08-0017

Shipment Date: 10/14/2021

URWM Section	RPD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)
9b.1	122193	122193-07	PAD21C46780	EPOXY PAINT CHIPS,	06/04/21	80	1249	567	457	207
9b.1	122235	122235-03	PAD21C46795	EPOXY PAINT CHIPS,	06/30/21	80	1343	609	551	250
Totals			2			160	2592	1176	1008	457

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Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695257 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC. (FRNP) on behalf of the U.S. Department of Energy		Generator's Site Address (if different than mailing address) Paducah Gaseous Diffusion Plant, 5511 Hobbs Road, Kevil, KY 42053		Generator's Phone: 5511 Hobbs Road, Kevil, KY 42053					
6. Transporter 1 Company Name Tri-State Motor Transit CO				U.S. EPA ID Number MOD095038898					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility				U.S. EPA ID Number UTD982588888					
Facility's Phone: 1-435-884-0155									
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
	Q	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Np-237, Pu-238, Pu-239, To-99, Th-230, Solid/Oxide, 19.1 MBq, Fissile Excepted		3	DM	87	K		
		2.							
		3.							
		4.							
14. Special Handling Instructions and Additional Information TRUCK 215080 Van 70238 TID: 0349425								PCB Start Date: 01/19/21	
ERG # 162 In the event of an RQ Release, call 1-800-424-8802								If undeliverable, return to generator	
Exclusive Use Shipment, See PCB Attachment for Additional Info								Shipment ID: 7340-08-0003	
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/accarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Blake Cleary				Signature <i>Blake Cleary</i>		Month Day Year 11 08 21		on behalf of FRNP	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name DAVID D Mullin				Signature <i>DD Mullin</i>		Month Day Year 10 28 21			
Transporter 2 Printed/Typed Name				Signature		Month Day Year			
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator)									
Facility's Phone:				Manifest Reference Number		U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)				Signature		Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Albert Ewins				Signature <i>Albert Ewins</i>		Month Day Year 11 1 21			

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695257JK

Shipment ID Number: 7340-06-0003

Shipment Date: 10/28/2021

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET WT (Kg)	Maximum Activity MBq
9b.1	122253	122253-01	PAD21C46085	Vent Duct Trough Cleanup Debris	01/19/21	7.3	116	53	60	27	5.4
9b.1	122253	122253-02	PAD21C46180	Vent Duct Trough Cleanup Debris	03/15/21	7.4	115	52	59	27	5.3
9b.1	122253	122253-03	PAD21C47503	Vent Duct Trough Cleanup Debris	07/06/21	7.2	150	68	94	43	5.4
Totals			3			21.9	381	173	213	97	19.1

A-65

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

Please print or type.

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 6890008932	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695261 JJK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5025			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053		
6. Transporter 1 Company Name Tri-State Motor Transit			U.S. EPA ID Number MOD095038998		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site- Bulk Waste Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155			U.S. EPA ID Number UTD982508888		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
RQ	1. UN2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Arr-241, Pu-238, Pu-239, To-99, Th-230, Liquid/Oxide, 1.78 MBq, Fissile Excepted	4	DM	782	K
	2.				
	3.				
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004885, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004885.					
14. Special Handling Instructions and Additional Information Truck: 215080 Trailer 70235 TID: 0349425 Accumulation Start Date: N/A PCB Start Date: 05/13/21 ERG # 182 In the event of an RQ Release, call 1-800-424-8802 if undeliverable, return to generator See PCB Attachment for Additional Info Pmo 2457 Shipment ID: 9750-09-0022					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Officer's Printed/Typed Name Regina Pen on behalf of FRNP			Signature Regina Pen		Month Day Year 10 28 21
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name DAVE MULLIN			Signature [Signature]		Month Day Year 10 28 21
Transporter 2 Printed/Typed Name			Signature		Month Day Year
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator)			Manifest Reference Number:		U.S. EPA ID Number
Facility's Phone:			Signature [Signature]		Month Day Year 11 1 21
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1.	2.	3.	4.		
H132					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a					
Printed/Typed Name Albert Ems			Signature [Signature]		Month Day Year 11 1 21

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

DESIGNATED FACILITY TO EPA'S e-MANIFEST SYSTEM

Additional Information Attachment, Page 2 of 2

Manifest Number: 019695261JJK

Shipment ID Number: 9750-09-0022

Shipment Date: 10/28/2021

UHMW Section	RFD	Container/ WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity (MBq)
9b.1	122252	122252-03	PAD21C47117	Vent Duct Oil and Water	05/13/21	6.7	475	215	419	190	0.43
9b.1	122252	122252-04	PAD21C47502	Vent Duct Oil and Water	07/01/21	6.5	496	225	440	200	0.45
9b.1	122252	122252-05	PAD21C47147	Vent Duct Oil and Water	07/14/21	5.35	482	219	426	193	0.44
9b.1	122252	122252-06	PAD21C47149	Vent Duct Oil and Water	08/05/21	6.3	496	225	440	200	0.45
		Totals	4			24.85	1949	884	1725	782	1.78

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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.

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8880008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695309 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC. (FRNP) 5511 Hobbs Road, Kevill, KY 42053				Generator's Site Address (if different than mailing address) FRNP Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevill, KY 42053					
Generator's Phone:		6. Transporter 1 Company Name CAST Transportation		U.S. EPA ID Number COR000005389					
		7. Transporter 2 Company Name		U.S. EPA ID Number					
		8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 1-435-884-0155		U.S. EPA ID Number UTD982598898					
Facility's Phone:									
GENERATOR RQ	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		1. UN 2012, Radioactive material, low specific activity (LSA-I), 7, (PCB), Am-241, Pu-238, Pu-239, To-99, Th-230, Liquid/Oxide, 0.39 MBq, Fissile Excepted		1		DM	172	K	
		2. Fissile Excepted							
		3.							
		4.							
14. Special Handling Instructions and Additional Information Truck: 1430 Van: 81A TID: 0349856 Accumulation Start Date: N/A PCB Start Date: 08/25/21 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9750-09-0029									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name		Signature				Month Day Year			
Lochelle Telford on behalf of FRNP		Lochelle Telford				12 14 21			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name		Signature				Month Day Year			
DENNIS MCELROY		Dennis McElroy				12 14 21			
Transporter 2 Printed/Typed Name		Signature				Month Day Year			
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:									
18c. Signature of Alternate Facility (or Generator) BY: [Signature] Month Day Year:									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4. AC 1723			
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name		Signature				Month Day Year			
Albert Evans		Albert Evans				12 17 21			

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695309 JJK

Shipment ID Number: 9750-09-0023

Shipment Date: 12/14/2021

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	122252	122252-07	PAD21C47534	Vent Duct Oil and Water	08/25/21	5.68	436	197.77	380	172
Totals			1			5.68	436	198	380	172

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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.

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 19, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695317 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053				
Generator's Phone: 270-441-5025			U.S. EPA ID Number MOD095038998				
6. Transporter 1 Company Name Tri-State Motor Transit Co.			U.S. EPA ID Number				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address WCS, Federal Waste TSDF 9998 West State Highway 178, Andrews, TX 79714			U.S. EPA ID Number TXD988088464				
Facility's Phone: 1-432-535-8500			Facility's Phone: TXD988088464				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
			No.	Type			
	RQ	1. UN 3077, Environmentally hazardous substance, solid, n.o.s., (PCB), 9, PG III, WP-9519	8	EA	3156	1	OUTS3971
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information Truck: 225033 Trailer 848593 TID: N/A Accumulation Start Date: N/A PCB Start Date: 08/27/04 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See PCB Attachment for Additional Info Shipment ID: WP-9519-01-12-14-21							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offlor's Printed/Typed Name <i>Regina Pea</i>		Signature <i>Regina Pea</i>		Month Day Year 12 14 21			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>Michael Harrebo</i>		Signature <i>Michael Harrebo</i>		Month Day Year 12 14 21			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H-132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <i>Barbara Vogler</i>		Signature <i>Barbara Vogler</i>		Month Day Year 12 15 21			

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. RECEIVED 12-15-2021 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alvin L. Hagan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695317JJK

WP 12-15-21

Shipment ID Number: WP-9519-01-12-14-21

Shipment Date: 12/14/2021

UFIWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	107839	107839-03	PAD21C48263	PCB TRANSFORMER FINS	06/27/04	90	678	308	643	292
9b.1	107839	107839-04	PAD21C48264	PCB TRANSFORMER FINS	06/27/04	100	690	313	655	297
9b.1	107839	107839-05	PAD21C48401	PCB TRANSFORMER FINS	06/27/04	100	676	307	641	291
9b.1	107839	107839-06	PAD21C48402	PCB TRANSFORMER FINS	06/27/04	100	672	305	637	289
9b.1	107839	107839-07	PAD21C48403	PCB TRANSFORMER FINS	06/27/04	100	784	356	741	336
9b.1	106744	106744-06	PAD21C48256	PCB TRANSFORMER FINS	11/07/05	50	1302	591	1248	566
9b.1	106744	106744-07	PAD21C48257	PCB TRANSFORMER FINS	11/07/05	50	1174	533	1120	508
9b.1	106744	106744-11	PAD21C48261	PCB TRANSFORMER FINS	11/07/05	50	1326	601	1272	577
Totals						640	7302	3312	6957	3156

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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.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019695318 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5025				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053				
6. Transporter 1 Company Name Tri-State Motor Transit Co.				U.S. EPA ID Number MOD095038998				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address WCS, Federal Waste TSDF 9998 West State Highway 176, Andrews, TX 79714 Facility's Phone: 1-432-535-8500				U.S. EPA ID Number TXD988088464				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	RQ	1. UN 3077, Environmentally hazardous substance, solid, n.o.s., (PCB), 9, PG III, WP-9519		5 BA		2878	K	OUTS3971
		2.						
		3.						
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>								
<p>14. Special Handling Instructions and Additional Information Truck: 205015 Trailer 848560 TID: N/A Accumulation Start Date: N/A PCB Start Date: 11/07/05 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See PCB Attachment for Additional Info Shipment ID: WP-9519-02-12-14-21</p>								
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's/Offeror's Printed/Typed Name <i>Regina Pea</i>				Signature <i>Regina Pea</i>		Month Day Year 12 14 21		
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>								
<p>17. Transporter Acknowledgment of Receipt of Materials</p>								
Transporter 1 Printed/Typed Name <i>Mike Morgan</i>				Signature <i>Mike Morgan</i>		Month Day Year 12 14 21		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
<p>18. Discrepancy</p>								
<p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p>								
<p>18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____</p>								
<p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>								
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p>								
1. H-132		2.		3.		4.		
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p>								
Printed/Typed Name <i>Barbara Vogler</i>				Signature <i>Barbara Vogler</i>		Month Day Year 12 15 21		

Alvin L. Hagen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695318JJK

DV 12-15-21

Shipment ID Number: WP-9519-02-12-14-21

Shipment Date: 12/14/2021

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	106744	106744-02	PAD21C47849	PCB TRANSFORMER Fins	11/07/05	50	1320	599	1266	574
9b.1	106744	106744-03	PAD21C47847	PCB TRANSFORMER Fins	11/07/05	50	1330	603	1276	579
9b.1	106744	106744-08	PAD21C48258	PCB TRANSFORMER Fins	11/07/05	50	1320	599	1266	574
9b.1	106744	106744-09	PAD21C48259	PCB TRANSFORMER Fins	11/07/05	50	1318	598	1264	573
9b.1	106744	106744-10	PAD21C48260	PCB TRANSFORMER Fins	11/07/05	50	1326	601	1272	577
Totals						250	6614	3000	6344	2878

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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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APPENDIX B

PCB WASTE CERTIFICATES OF DISPOSAL

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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>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-04-0005	94871	12/31/2020	37.5	Landfill	Mixed Waste

RECEIVED 1/5/2021



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.



Brian Beynon
Jan 4 2021 6:52 AM

Brian Beynon
Operations Manager

Date 

EPA ID # TND982109142

DIVERSIFIED SCIENTIFIC SERVICES, INC.



COD Number: TSDSSI-19-096-20201217

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, Tennessee is providing this certificate to confirm the disposal of TSCA Regulated PCB waste in a hazardous waste landfill permitted by EPA under section 3004 of RCRA, or by a State authorized under section 3006 of RCRA.

Hereby certifies such disposal on: 12/17/2020

Attached list of containers from Shipment Number DSSI-19-096

Shipped on Hazardous Waste Manifest Number 019694669JJK

Generator Name US Dept of Energy - Four Rivers (formerly Fluor Federal Services, Inc.)

EPA ID No. KY8890008982

Address 5511 Hobbs Road

Contact Kevil, KY 42053-
LaChelle Telfair

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U. S. C. 1001 and 15 U. S. C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as a 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.

RECEIVED 1/14/2021

A handwritten signature in black ink that reads "Alisa L. Fugan".

By: Ralph Sheffield

Title: Waste Tracking Representative

Ralph
Sheffield

Signature: _____

Digitally signed by Ralph
Sheffield
Date: 2021.01.05 09:27:08
-05'00'

B-4

Certificate of Disposal
TSDSSI-19-096-20201217

Shipment Number	Haz Manifest Number	WPS Number	Package Number	Item Number	Date Processed	Generator Code	Waste Code	Date Received
DSSI-19-096	019694669JJK	19-09-017	79858	121625-01	12/17/2020	KYFLU01	Bulk PCB - Article	9/11/2019

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>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0030	4899	09/28/2020	686.0	Landfill	Mixed Waste

RECEIVED 1/28/2021



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.



Brian Beynon
 Jan 25 2021 6:08 AM

cosign

 Brian Beynon
 Operations Manager

 Date

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>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0075	4994	11/30/2020	755.0	Landfill	Mixed Waste

RECEIVED 2/23/2021



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Brennon Dick
Feb 23 2021 2:46 PM

cosign

Brennon Dick
Operations Manager

Date

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:

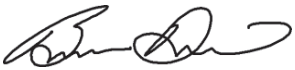
<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0011	95049	03/01/2021	7.5	Landfill	Mixed Waste

RECEIVED 3/8/2021



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Brennon Dick
 Mar 5 2021 6:15 PM

cosign

Brennon Dick
 Operations Manager

Date

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>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0082	95054	03/18/2021	686.0	Landfill	Mixed Waste
9750-01-0083	95055	03/18/2021	686.0	Landfill	Mixed Waste
9750-01-0084	95059	03/18/2021	686.0	Landfill	Mixed Waste

RECEIVED 3/24/2021



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

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Brian Beynon
 Mar 23 2021 4:02 PM

 Brennon Dick
 Operations Manager

 cosign
 Date

CERTIFICATE OF DISPOSAL

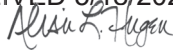
3 miles South, Exit 49, I-80
 Clive, Utah 84029
 EPA ID: UTD982598898

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0012	95071	05/13/2021	480.0	Landfill	Mixed Waste
7340-08-0013	95091	05/13/2021	93.0	Landfill	Mixed Waste

RECEIVED 5/18/2021



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
 Operations Manager

May 14 2021 4:37 PM



Date

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

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>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-04-0006	94972	06/21/2021	7.5	Landfill	Mixed Waste
9750-04-0008	95093	06/21/2021	7.5	Landfill	Mixed Waste

RECEIVED 7/2/2021



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.

Brian Beynon
 Jun 24 2021 11:34 AM



Brennon Dick
 Operations Manager

Date



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>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0014	95153	06/29/2021	12.3	Landfill	Mixed Waste

RECEIVED ON 7/2/2021



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.



Brian Beynon
Jul 2 2021 10:34 AM

cosign

Brennon Dick
Operations Manager

Date

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>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0015	95154	06/25/2021	384.0	Landfill	Mixed Waste

RECEIVED 7/2/2021


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.

Brian Beynon
 Jun 29 2021 11:44 AM



 Brennon Dick
 Operations Manager

 Date 

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>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0016	95194	08/12/2021	686.0	Landfill	Mixed Waste

received
8-13-21
TS email

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
Aug 13 2021 12:53 PM
cosign

Date

Brennon Dick
Operations Manager

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

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:

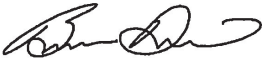
<u>Shipment</u>	<u>UHWM #</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-06-0002	95216	08/30/2021	7.5	Landfill	Mixed Waste

RECEIVED 09-09-2021

TINA SCOTT (Affiliate) Digitally signed by TINA SCOTT (Affiliate)
Date: 2021.09.09 11:39:23 -05'00'

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
Sep 9 2021 9:59 AM
cosign

Date

Brennon Dick
Operations Manager

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>	<u>UHWM #</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-04-0007	95050	10/07/2021	7.5	Landfill	Mixed Waste

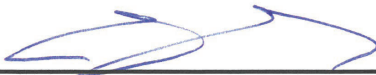
RECEIVED 10-13-2021

TINA SCOTT
 (Affiliate)

Digitally signed by TINA SCOTT (Affiliate)
 Date: 2021.10.13 11:24:10 -05'00'

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

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 Brennon Dick
 Operations Manager

10-12-2021

 Date

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

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>	<u>UHMW #</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0017	95252	10/25/2021	244.0	Landfill	Mixed Waste



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Brennon Dick
Operations Manager



Date

RT

ENERGYSOLUTIONS


CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

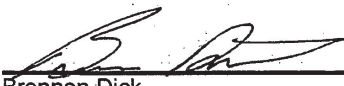
This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

<u>Shipment</u>	<u>UHWM #</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-03-0005	95148	11/22/2021	141.0	Landfill	Mixed Waste

RECEIVED
 DEC 01 2021
 BY: 

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 Brennan Dick
 Operations Manager


 Date

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

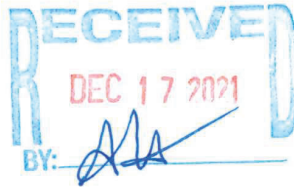
CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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<u>Shipment</u>	<u>UHMW #</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-06-0003	95257	12/14/2021	22.5	Landfill	Mixed Waste



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Brennon Dick
Operations Manager



Date

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APPENDIX C

PCB WASTE STORAGE AREA INSPECTION RECORDS

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PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-333					
G-333-18		1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-3

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-333-18		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		8/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-37		12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PCB storage area established on 11/15/2021.
PCB/180-333-01		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PCB storage area established on 6/2/2021.

C-4

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	PCB/180-333-01	7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	PCB/180-333-01	8/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	PCB/180-333-01	9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	PCB/180-333-01	10/13/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	PCB/180-333-01	11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PCB storage area closed on 12/7/2021.
C-335					
	G-335-17	4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PCB storage area established on 4/16/2021.
	G-335-17	5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-5

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-335-17	6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PCB storage aread closed on 7/21/21.
C-337					
	G-337-02	1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-337-02	2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-337-02	3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-337-02	3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-337-02	4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-337-02	5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-6

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-02		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		8/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-7

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-03		2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		8/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-8

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-03		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

G-9

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-PCB-02		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		8/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-10

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-337-PCB-02	12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-11	C-400				
	30DAA-400-01	1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-400-01	1/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-400-01	1/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-400-01	1/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-400-01	2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-400-01	2/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-400-01		2/15/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		2/22/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		3/4/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		3/10/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		3/17/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		3/24/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-12

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-400-01		4/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		4/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		4/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		5/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		5/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		5/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-13

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-400-01		6/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		6/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		6/16/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		6/30/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		7/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		7/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-14

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-400-01		7/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		8/4/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		8/11/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		8/17/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		8/24/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		8/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		9/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-400-01		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-15

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	30DAA-400-01	9/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-400-01	9/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-400-01	10/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-400-01	10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample results indicate PCB levels are <50ppm. Waste is reclassified as non-PCB. Storage area is no longer inspected for PCB storage.
	C-411-A				
	30DAA-PCB-411A-01	1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-PCB-411A-01	1/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-PCB-411A-01	1/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-16

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-PCB-411A-01		1/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		2/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		2/16/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		2/22/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		3/4/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		3/10/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-17

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-PCB-411A-01		3/17/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		3/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		4/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		4/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		4/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-411A-01		5/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	30DAA-PCB-411A-01	5/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-PCB-411A-01	5/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-PCB-411A-01	5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PCB storage area closed on 6/2/2021.
	C-733				
	C-733	1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-19

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		8/17/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-20

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q					
C-746-Q		1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-21

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-746-Q		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		8/17/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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C-752-A

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-752-A		1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-23

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-752-A		8/17/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A					
C-753-A		1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-24

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-753-A		3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		8/17/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	C-753-A	10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A	11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A	12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-757				
	G-757-03	1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	3/31/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-26

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-757-03		4/28/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		5/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		6/23/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		7/21/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		8/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		9/14/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		10/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		11/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

G-27

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-757-03		12/7/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-759					
	30DAA-PCB-759-01	1/5/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-PCB-759-01	1/12/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-PCB-759-01	1/19/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-PCB-759-01	1/26/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-PCB-759-01	2/2/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-PCB-759-01	2/9/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-PCB-759-01		2/15/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-759-01		3/1/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-PCB-759-01		3/4/2021	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PCB storage area closed on 3/9/2021.

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APPENDIX D

PCB WASTE INVENTORY TABLES

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TABLES

D.1.	Corrections and Adjustments to the December 31, 2020, Inventory	D-5
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D.4.	PCB Waste Shipped for Disposal in 2021	D-11
D.5.	PCB Waste Inventory as of December 31, 2021	D-14

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Table D.1. Corrections and Adjustments to the December 31, 2020, Inventory

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments	
-1	122043	122043-01	PCB Container	ENVIRONMENTAL MEDIA/DEBRIS (CONCRETE CORES)	12/16/2020	Solid (S)	-649	C-400	RCRA Mixed (RM)	Recharacterized as non-PCB. Sample data indicated non-detects for PCBs.	
0	122106	122106-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	7/23/2020	S	12	Various	TSCA Mixed (TM)	End Inventory weight was estimated. Container was closed during 2021 and weight confirmed. Upon review of container logsheet the PCB Date was corrected	
TOTAL CORRECTIONS AND ADJUSTMENTS TO THE DECEMBER 31, 2020, INVENTORY:							-637				

Table D.2. PCB Waste Generated in 2021

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
121255	121255-04	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING	9/6/2021	235	Liquid (L)	C-752-A	C-337	RCRA/TSCA Mixed (RTM)
121255	121255-05 ^a	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING	10/13/2021	210	L	C-337	C-337	RTM
122193	122193-04	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	1/12/2021	1,397	Solid (S)	C-752-A	C-333	TSCA Mixed (TM)
122193	122193-05	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	4/12/2021	809	S	C-752-A	C-333	TM
122193	122193-06	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	4/27/2021	1,097	S	C-752-A	C-333	TM
122193	122193-07	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	6/4/2021	567	S	C-752-A	C-333	TM
122193	122193-08 ^a	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	8/23/2021	601	S	C-333	C-333	TM
122235	122235-01	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	1/22/2021	713	S	C-752-A	C-746-B	TM
122235	122235-02	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	1/23/2021	725	S	C-752-A	C-746-B	TM
122235	122235-03	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	6/30/2021	609	S	C-752-A	C-746-B	TM
122235	122235-04	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	8/26/2021	689	S	C-752-A	C-746-B	TM
122252	122252-01	PCB Container	VENTILATION DUCT OIL AND WATER	1/25/2021	159	L	C-752-A	Proc Bldgs	TM
122252	122252-02	PCB Container	VENTILATION DUCT OIL AND WATER	3/15/2021	228	L	C-752-A	Proc Bldgs	TM
122252	122252-03	PCB Container	VENTILATION DUCT OIL AND WATER	5/13/2021	215	L	C-752-A	Proc Bldgs	TM
122252	122252-04	PCB Container	VENTILATION DUCT OIL AND WATER	7/1/2021	225	L	C-752-A	Proc Bldgs	TM
122252	122252-05	PCB Container	VENTILATION DUCT OIL AND WATER	7/14/2021	219	L	C-752-A	Proc Bldgs	TM
122252	122252-06	PCB Container	VENTILATION DUCT OIL AND WATER	8/5/2021	225	L	C-752-A	Proc Bldgs	TM
122252	122252-07	PCB Container	VENTILATION DUCT OIL AND WATER	8/30/2021	198	L	C-752-A	Proc Bldgs	TM
122252	122252-08	PCB Container	VENTILATION DUCT OIL AND WATER	10/13/2021	231	L	C-752-A	C-337	TM
122253	122253-01	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/19/2021	53	S	C-752-A	Proc Bldgs	TM
122253	122253-02	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	3/15/2021	52	S	C-752-A	Proc Bldgs	TM
122253	122253-03	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	7/6/2021	68	S	C-752-A	Proc Bldgs	TM
122253	122253-04	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	8/2/2021	59	S	C-752-A	Proc Bldgs	TM
122253	122253-05	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	10/19/2021	46	S	C-752-A	Proc Bldgs	TM
122253	122253-06	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	11/2/2021	62	S	C-752-A	Proc Bldgs	TM
122253	122253-07	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	12/20/2021	71	S	C-752-A	Proc Bldgs	TM
122306	122306-01	PCB Container	EXCAVATED SOIL	3/4/2021	4,235	S	C-752-A	C-333	RTM
122396	122396-01 ^a	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS/ETC	5/20/2021	36	S	C-757	Various	TM

Table D.2. PCB Waste Generated in 2021 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
122406	122406-01	PCB Article Container	LLW PCB EXCESS EQUIPMENT FOR OFFSITE DISPOSAL	5/13/2021	7,185	S	C-753-A	Various	TM
122430	122430-01	PCB Article Container	CAPACITORS THAT CONTAIN PCB OIL	9/1/2021	84	S	C-752-A	C-710	TM
122430	122430-02	PCB Article Container	CAPACITORS THAT CONTAIN PCB OIL	9/1/2021	61	S	C-752-A	C-710	TM
122431	122431-01	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED INTO 121431-02.	6/1/2021	68	S	C-333-RPK	C-333	TM
122431	122431-02 ^a	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED INTO THIS CONTAINER (122431-02) (C-631-3 WASTE ADDED TO THIS CONTAINER PBI - 0101-A.1, NENDST)	6/1/2021	4,647	S	C-333	C-333	TM
122473	122473-01 ^a	PCB Article Container	MISC PART AND FROM TWO PCB TRANSFORMER IN C-337 - RECEIVED MATERIAL FROM 107839-01.	6/27/2004	450	S	C-337	C-337	TM
122494	122494-01	PCB Article Container	FLUORESCENT LIGHT FIXTURES, LIGHT BALLASTS AND WIRING, CONTAINER PCB (50-499 PPM) AND ASBESTOS CONTAINING MATERIAL (ACM)	8/19/2021	640	S	C-752-A	C-725	TM
TOTAL PCB WASTE GENERATED IN CY 2021^b:					27,167				

^a Indicates a collection containers as of December 31, 2021. Weight is estimated.

^b Due to rounding, the weight totals may vary by 1 kg.

Table D.3. Adjustments to the 2021 Inventory

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
0	106744	106744-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	Solid (S)	-5,685	C-337	TSCA Mixed (TM)	Weights updated to reflect component removal.
1	106744	106744-02	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	599	C-337	TM	Repackaged from 106744-01
1	106744	106744-03	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	603	C-337	TM	Repackaged from 106744-01
1	106744	106744-04	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	608	C-337	TM	Repackaged from 106744-01
1	106744	106744-05	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	600	C-337	TM	Repackaged from 106744-01
1	106744	106744-06	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	591	C-337	TM	Repackaged from 106744-01
1	106744	106744-07	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	533	C-337	TM	Repackaged from 106744-01

Table D.3. Adjustments to the 2021 Inventory (Continued)

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
1	106744	106744-08	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	599	C-337	TM	Repackaged from 106744-01
1	106744	106744-09	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	598	C-337	TM	Repackaged from 106744-01
1	106744	106744-10	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	601	C-337	TM	Repackaged from 106744-01
1	106744	106744-11	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	600	C-337	TM	Repackaged from 106744-01
0	107839	107839-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	-1,796	C-337	TM	Weights updated to reflect component removal.
1	107839	107839-02	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	308	C-337	TM	Repackaged from 107839-02
1	107839	107839-03	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	308	C-337	TM	Repackaged from 107839-02

Table D.3. Adjustments to the 2021 Inventory (Continued)

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments	
1	107839	107839-04	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	313	C-337	TM	Repackaged from 107839-02	
1	107839	107839-05	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	307	C-337	TM	Repackaged from 107839-02	
1	107839	107839-06	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	305	C-337	TM	Repackaged from 107839-02	
1	107839	107839-07	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	356	C-337	TM	Repackaged from 107839-02	
-1	122431	122431-01	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED INTO 121431-02.	6/1/2021	S	-68	C-333	TM	Repackaged into 122431-02	
TOTAL ADJUSTMENTS TO CY 2021 INVENTORY*:							276				

*Due to rounding, the weight totals may vary.

Table D.4. PCB Waste Shipped for Disposal in 2021

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
106744	106744-02	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	599	Solid (S)	C-337	TSCA Mixed (TM)	12/14/2021	Waste Control Specialist, Andrews, TX	019695318JJK
106744	106744-03	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	603	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695318JJK
106744	106744-06	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	591	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695317JJK
106744	106744-07	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	533	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695317JJK
106744	106744-08	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	599	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695318JJK
106744	106744-09	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	598	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695318JJK
106744	106744-10	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	601	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695318JJK
106744	106744-11	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	C-337	600	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695317JJK
107839	107839-03	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	C-337	308	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695317JJK
107839	107839-04	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	C-337	313	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695317JJK
107839	107839-05	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	C-337	307	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695317JJK
107839	107839-06	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	C-337	305	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695317JJK

Table D.4. PCB Waste Shipped for Disposal in 2021 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
107839	107839-07	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	C-337	356	S	C-337	TM	12/14/2021	Waste Control Specialist, Andrews, TX	019695317JJK
121998	121998-03	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	3/16/2020	C-752-A	57	S	C-337	TM	1/28/2021	EnergySolutions, Clive, UT	019695049JJK
121998	121998-04	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	9/21/2020	C-752-A	76	S	C-337	TM	6/21/2021	EnergySolutions, Clive, UT	019695153JJK
121998	121998-05	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	11/5/2020	C-752-A	64	S	C-337	TM	8/20/2021	EnergySolutions, Clive, UT	019695216JJK
121999	121999-02	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	7/2/2020	C-752-A	220	Liquid (L)	C-337	TM	1/28/2021	EnergySolutions, Clive, UT	019695050JJK
121999	121999-03	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	8/11/2020	C-752-A	221	L	C-337	TM	3/29/2021	EnergySolutions, Clive, UT	019695093JJK
121999	121999-04	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	9/29/2020	C-752-A	227	L	C-337	TM	5/25/2021	EnergySolutions, Clive, UT	019695128JJK
121999	121999-05	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	10/29/2020	C-752-A	230	L	C-337	TM	5/25/2021	EnergySolutions, Clive, UT	019695128JJK
122023	122023-69	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/4/2020	C-752-A	12,891	S	C-400	RCRA/TSCA Mixed (RTM)	2/23/2021	EnergySolutions, Clive, UT	019695054JJK
122023	122023-70	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/4/2020	C-752-A	8,954	S	C-400	RTM	2/23/2021	EnergySolutions, Clive, UT	019695055JJK
122023	122023-71	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/4/2020	C-752-A	5,915	S	C-400	RTM	3/2/2021	EnergySolutions, Clive, UT	019695059JJK
122106	122106-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	7/23/2020	C-752-A	35	S	Various	TM	6/21/2021	EnergySolutions, Clive, UT	019695153JJK
122128	122128-01	PCB Container	POTENTIALLY PCB CONTAMINATED PPE & PLASTIC	8/12/2020	C-752-A	5	S	C-333	TM	6/21/2021	EnergySolutions, Clive, UT	019695153JJK
122143	122143-01	PCB Container	POSSIBLE PCB CONTAMINATED FILTER MEDIA	8/17/2020	C-752-A	409	S	C-333	TM	3/29/2021	EnergySolutions, Clive, UT	019695091JJK
122179	122179-01	PCB Container	EPOXY PAINT CHIPS, VEGETATION & PPE AT BOTH C-340 AND C-410	10/16/2020	C-752-A	953	S	Various	TM	3/4/2021	EnergySolutions, Clive, UT	019695071JJK
122193	122193-01	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/6/2020	C-752-A	882	S	C-410	TM	3/4/2021	EnergySolutions, Clive, UT	019695071JJK
122193	122193-02	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/13/2020	C-752-A	1,389	S	C-410	TM	3/4/2021	EnergySolutions, Clive, UT	019695071JJK
122193	122193-03	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/20/2020	C-752-A	765	S	C-410	TM	3/4/2021	EnergySolutions, Clive, UT	019695071JJK

Table D.4. PCB Waste Shipped for Disposal in 2021 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
122193	122193-04	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	1/12/2021	C-752-A	1,397	S	C-333	TM	6/18/2021	EnergySolutions, Clive, UT	019695154JJK
122193	122193-05	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	4/12/2021	C-752-A	809	S	C-333	TM	6/18/2021	EnergySolutions, Clive, UT	019695154JJK
122193	122193-06	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	4/27/2021	C-752-A	1,097	S	C-333	TM	6/18/2021	EnergySolutions, Clive, UT	019695154JJK
122193	122193-07	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	6/4/2021	C-752-A	567	S	C-333	TM	10/14/2021	EnergySolutions, Clive, UT	019695252JJK
122235	122235-01	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	1/22/2021	C-752-A	713	S	C-746-B	TM	3/4/2021	EnergySolutions, Clive, UT	019695071JJK
122235	122235-02	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	1/23/2021	C-752-A	725	S	C-746-B	TM	6/18/2021	EnergySolutions, Clive, UT	019695154JJK
122235	122235-03	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	6/30/2021	C-752-A	609	S	C-746-B	TM	10/14/2021	EnergySolutions, Clive, UT	019695252JJK
122252	122252-01	PCB Container	VENTILATION DUCT OIL AND WATER	1/25/2021	C-752-A	159	L	Proc Bldgs	TM	5/25/2021	EnergySolutions, Clive, UT	019695128JJK
122252	122252-02	PCB Container	VENTILATION DUCT OIL AND WATER	3/15/2021	C-752-A	228	L	Proc Bldgs	TM	9/28/2021	EnergySolutions, Clive, UT	019695234JJK
122252	122252-03	PCB Container	VENTILATION DUCT OIL AND WATER	5/13/2021	C-752-A	215	L	Proc Bldgs	TM	10/28/2021	EnergySolutions, Clive, UT	019695261JJK
122252	122252-04	PCB Container	VENTILATION DUCT OIL AND WATER	7/1/2021	C-752-A	225	L	Proc Bldgs	TM	10/28/2021	EnergySolutions, Clive, UT	019695261JJK
122252	122252-05	PCB Container	VENTILATION DUCT OIL AND WATER	7/14/2021	C-752-A	219	L	Proc Bldgs	TM	10/28/2021	EnergySolutions, Clive, UT	019695261JJK
122252	122252-06	PCB Container	VENTILATION DUCT OIL AND WATER	8/5/2021	C-752-A	225	L	Proc Bldgs	TM	10/28/2021	EnergySolutions, Clive, UT	019695261JJK
122252	122252-07	PCB Container	VENTILATION DUCT OIL AND WATER	8/30/2021	C-752-A	198	L	Proc Bldgs	TM	12/14/2021	EnergySolutions, Clive, UT	019695309JJK
122253	122253-01	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	1/19/2021	C-752-A	53	S	Proc Bldgs	TM	10/28/2021	EnergySolutions, Clive, UT	019695257JJK
122253	122253-02	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	3/15/2021	C-752-A	52	S	Proc Bldgs	TM	10/28/2021	EnergySolutions, Clive, UT	019695257JJK
122253	122253-03	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	7/6/2021	C-752-A	68	S	Proc Bldgs	TM	10/28/2021	EnergySolutions, Clive, UT	019695257JJK
122306	122306-01	PCB Container	EXCAVATED SOIL	3/4/2021	C-752-A	4,235	S	C-333	RTM	6/21/2021	EnergySolutions, Clive, UT	019695148JJK
122406	122406-01	PCB Article Container	LLW PCB EXCESS EQUIPMENT FOR OFFSITE DISPOSAL	5/13/2021	C-753-A	7,185	S	Various	TM	7/29/2021	EnergySolutions, Clive, UT	019695194JJK
TOTAL PCB WASTE SHIPPED FOR DISPOSAL IN CY 2021*:						58,581						

*Due to rounding, the weight totals may vary.

Table D.5. PCB Waste Inventory as of December 31, 2021

RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kgs)	Current Facility	Source	Waste Category
106744	106744-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	Solid (S)	9,964	C-337	C-337	TSCA Mixed (TM)
106744	106744-04	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	608	C-337	C-337	TM
106744	106744-05	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	600	C-337	C-337	TM
107839	107839-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	15,350	C-337	C-337	TM
107839	107839-02	PCB Article	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	308	C-337	C-337	TM
122396	122396-01 ^a	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS/ETC	5/20/2021	S	36	C-757	Various	TM
122430	122430-01	PCB Article Container	CAPACITORS THAT CONTAIN PCB OIL	9/1/2021	S	84	C-752-A	C-710	TM
122430	122430-02	PCB Article Container	CAPACITORS THAT CONTAIN PCB OIL	9/1/2021	S	61	C-752-A	C-710	TM
122473	122473-01 ^a	PCB Article Container	MISC PART AND FROM TWO PCB TRANSFORMER IN C-337 - RECEIVED MATERIAL FROM 107839-01.	6/27/2004	S	450	C-337	C-337	TM
122494	122494-01	PCB Article Container	FLUORESCENT LIGHT FIXTURES, LIGHT BALLASTS AND WIRING, CONTAINER PCB (50-499 PPM) AND ASBESTOS CONTAINING MATERIAL (ACM)	8/19/2021	S	640	C-752-A	C-725	TM
121255	121255-04	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING	9/6/2021	Liquid (L)	235	C-752-A	C-337	RCRA/TSCA Mixed (RTM)
121255	121255-05 ^a	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING	10/13/2021	L	210	C-337	C-337	RTM
122193	122193-08 ^a	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	8/23/2021	S	601	C-333	C-333	TM
122235	122235-04	PCB Container	EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM	8/26/2021	S	689	C-752-A	C-746-B	TM
122252	122252-08	PCB Container	VENTILATION DUCT OIL AND WATER	10/13/2021	L	231	C-752-A	C-337	TM
122253	122253-04	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	8/2/2021	S	59	C-752-A	Proc Bldgs	TM
122253	122253-05	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	10/19/2021	S	46	C-752-A	Proc Bldgs	TM
122253	122253-06	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	11/2/2021	S	62	C-752-A	Proc Bldgs	TM
122253	122253-07	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	12/20/2021	S	71	C-752-A	Proc Bldgs	TM
122431	122431-02 ^a	PCB Container	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED INTO THIS CONTAINER (122431-02) (C-631-3 WASTE ADDED TO THIS CONTAINER PBI - 0101-A.1, NENDST)	6/1/2021	S	4,647	C-333	C-333	TM
TOTAL PCB WASTE INVENTORY AS OF DECEMBER 31, 2021^b:						34,949			

^a Indicates a collection containers as of December 31, 2021. Weight is estimated.

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