FRNP-RPT-0251

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

Solution Four Rivers NUCLEAR PARTNERSHIP, LLC

This document is approved for public release per review by:

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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
CFR	Code of Federal Regulations
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

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:	
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:	
PCB waste in kg ³ remaining in storage for disposal as of 12/31/2021:	

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:

- Energy Solutions 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.

UHWM Number	Date Shipped	Shipment Destination	Number of PCB	Weight from
		-	Containers	UHWM (kg) ^{a,b}
	1/20/2021	EnergySolutions,		22
019695049JJK	1/28/2021	Clive, UT	1	32
010/050501117	1/20/2021	EnergySolutions,	1	104
019695050JJK	1/28/2021	Clive, UT	1	194
010 (0 50 5 1111	0/00/0001	EnergySolutions,		0.400
019695054JJK	2/23/2021	Clive, UT	1	9489
010 (0 50 5 5 111	0/00/0001	EnergySolutions,		
019695055JJK	2/23/2021	Clive, UT	1	5552
010(05050111/	2/2/2021	EnergySolutions,	1	2226
019695059JJK	3/2/2021	Clive, UT	1	2336
		EnergySolutions,	-	• • • •
019695071JJK	3/4/2021	Clive, UT	5	2878
		EnergySolutions,		
019695091JJK	3/29/2021	Clive, UT	1	44
010 (0 = 0 0 =		EnergySolutions,		105
019695093JJK	3/29/2021	Clive, UT	1	196
		EnergySolutions,		
019695128JJK	5/25/2021	Clive, UT	3	539
		EnergySolutions,		
019695148JJK	6/21/2021	Clive, UT	1	3671
		EnergySolutions,		
019695153JJK	6/21/2021	Clive, UT	3	73
		EnergySolutions,		• • • • •
019695154JJK	6/18/2021	Clive, UT	4	2186
	_ /= / /	EnergySolutions,		
019695194JJK	7/29/2021	Clive, UT	1	3783
	- /	EnergySolutions,		
019695216JJK	8/20/2021	Clive, UT	1	39
		EnergySolutions,		
019695234JJK	9/28/2021	Clive, UT	1	203
		EnergySolutions,		
019695252JJK	10/14/2021	Clive, UT	2	457
	/	EnergySolutions,		. –
019695257JJK	10/28/2021	Clive, UT	3	97
		EnergySolutions,		
019695261JJK	10/28/2021	Clive, UT	4	782
		EnergySolutions,		
019695309JJK	12/14/2021	Clive, UT	1	172
		Waste Control		
		Specialist,		
019695317JJK	12/14/2021	Andrews, TX	8	3156
		Waste Control		
		Specialist,		
019695318JJK	12/14/2021	Andrews, TX	5	8 <u>3156</u> 5 2878
	Total UHWM: 21		49	38,758

Table 1.1 PCB Waste Manifests Summary

^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.

UHWM	Earliest Date Removed from Service	Date Shipped	Disposer	Containers Disposed of	Weight from UHWM (kg) ^a	Date of Disposal	Date CD Received
			DSSI, Inc.,				
019694669JJK	9/10/2018	9/10/2019	Kingston, TN	1	109	12/17/2020	1/14/2021
			EnergySolutions,				
019694871JJK	5/9/2019	3/16/2020	Clive, UT	1	200	12/31/2020	1/5/2021
			EnergySolutions,				
019694871JJK	6/24/2019	3/16/2020	Clive, UT	1	201	12/31/2020	1/5/2021
			EnergySolutions,				
019694871JJK	8/20/2019	3/16/2020	Clive, UT	1	198	12/31/2020	1/5/2021
			EnergySolutions,				
019694871JJK	10/30/2019	3/16/2020	Clive, UT	1	191	12/31/2020	1/5/2021
		3/16/2020	EnergySolutions,				
019694871JJK	19694871JJK 12/2/2019		Clive, UT	1	198	12/31/2020	1/5/2021
			EnergySolutions,				
019694899JJK	8/21/2020	9/10/2020	Clive, UT	1	11,083	9/28/2020	1/28/2021
			EnergySolutions,				
019694972JJK	2/11/2020	10/20/2020	Clive, UT	1	192	6/21/2021	7/2/2021
			EnergySolutions,			/ /	- / / /
019694994JJK	9/25/2020	10/22/2020	Clive, UT	1	16,923	11/30/2020	2/23/2021
			EnergySolutions,				
019695049JJK	3/16/2020	1/28/2021	Clive, UT	1	32	3/1/2021	3/8/2021
010/05050111	7/2/2020	1/20/2021	EnergySolutions,		104	10/5/0001	10/12/2021
019695050JJK	7/2/2020	1/28/2021	Clive, UT	1	194	10/7/2021	10/13/2021
010/05054111/	11/4/2020	2/22/2021	EnergySolutions,	1	0.400	2/10/2021	2/24/2021
019695054JJK	11/4/2020	2/23/2021	Clive, UT	1	9,489	3/18/2021	3/24/2021
010(050551112	11/4/2020	2/22/2021	Energy <i>Solutions</i> ,	1	5 550	2/19/2021	2/24/2021
019695055JJK	11/4/2020	2/23/2021	Clive, UT	1	5,552	3/18/2021	3/24/2021
01060505011	11/4/2020	2/2/2021	Energy <i>Solutions</i> ,	1	2 2 2 6	2/18/2021	2/24/2021
019695059JJK	11/4/2020	3/2/2021	Clive, UT EnergySolutions,	1	2,336	3/18/2021	3/24/2021
019695071JJK	10/16/2020	3/4/2021	Clive, UT	1	589	5/13/2021	5/18/2021
0190930/1JJK	10/10/2020	5/4/2021	EnergySolutions,	1	389	3/13/2021	3/16/2021
019695071JJK	11/6/2020	3/4/2021	Clive, UT	1	517	5/13/2021	5/18/2021
01707JU/1JJK	11/0/2020	JI 77/2021	EnergySolutions,	1	517	5/15/2021	J/ 10/ 2021
019695071JJK 11/13/2020 3/4/2021		3/4/2021	Clive, UT	1	1,024	5/13/2021	5/18/2021
0170730/1JJIX	11/13/2020	JI TI 2021	EnergySolutions,	1	1,024	5/15/2021	5/10/2021
019695071JJK	11/20/2020	3/4/2021	Clive, UT	1	400	5/13/2021	5/18/2021
017073071331	11/20/2020	51712021	Energy <i>Solutions</i> ,	1	UUT	5/15/2021	5/10/2021
019695071JJK	1/22/2021	3/4/2021	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
			EnergySolutions,				
019695091JJK	8/17/2020	3/29/2021	Clive, UT	1	44	5/13/2021	5/18/2021
			EnergySolutions,				
019695093JJK	8/11/2020	3/29/2021	Clive, UT	1	196	6/21/2021	7/2/2021
			EnergySolutions,				
019695148JJK	3/4/2021	6/21/2021	Clive, UT	1	3,671	11/22/2021	12/1/2021
			EnergySolutions,				
019695153JJK	7/23/2020	6/21/2021	Clive, UT	1	21	6/29/2021	7/2/2021
			EnergySolutions,				
019695153JJK	8/12/2020	6/21/2021	Clive, UT	1	1	6/29/2021	7/2/2021
			EnergySolutions,				_ /= /=
019695153JJK	9/21/2020	6/21/2021	Clive, UT	1	51	6/29/2021	7/2/2021
			EnergySolutions,				
019695154JJK	1/12/2021	6/18/2021	Clive, UT	1	838	6/25/2021	7/2/2021
			EnergySolutions,		• • •		
019695154JJK	1/23/2021	6/18/2021	Clive, UT	1	360	6/25/2021	7/2/2021
010/05154111/	4/12/2021	(110/2021	EnergySolutions,	1	250	(105/0001	7/2/2021
019695154JJK	4/12/2021	6/18/2021	Clive, UT	1	250	6/25/2021	7/2/2021
010/05154111/	4/27/2021	(110/2021	EnergySolutions,	1	720	(105/0001	7/2/2021
019695154JJK	4/27/2021	6/18/2021	Clive, UT	1	738	6/25/2021	7/2/2021
010/0510/107	5/12/2021	7/20/2021	EnergySolutions,	1	2 792	0/10/2021	0/12/2021
019695194JJK	5/13/2021	7/29/2021	Clive, UT	1	3,783	8/12/2021	8/13/2021
010(0501(11)	11/5/2020	8/20/2021	Energy <i>Solutions</i> ,	1	20	9/20/2021	0/0/2021
019695216JJK	11/5/2020	8/20/2021	Clive, UT EnergySolutions,	1	39	8/30/2021	9/9/2021
0106052521112	6/4/2021	10/14/2021		1	207	10/25/2021	11/4/2021
019695252JJK	0/4/2021	10/14/2021	Clive, UT Energy <i>Solutions</i> ,	1	207	10/25/2021	11/4/2021
019695252JJK	6/30/2021	10/14/2021	Clive, UT	1	250	10/25/2021	11/4/2021
019093232JJK	0/30/2021	10/14/2021	Energy <i>Solutions</i> ,	1	230	10/23/2021	11/4/2021
019695257JJK	1/19/2021	10/28/2021	Clive, UT	1	27	12/14/2021	12/17/2021
01707 <i>323</i> /JJK	1/17/2021	10/20/2021	Energy <i>Solutions</i> ,	1	<i>∠1</i>	12/14/2021	12/1//2021
019695257JJK	3/15/2021	10/28/2021	Clive, UT	1	27	12/14/2021	12/17/2021
01707525/JJK	5/15/2021	10/20/2021	Energy <i>Solutions</i> ,	1	21	12/14/2021	12/1//2021
019695257JJK	7/6/2021	10/28/2021	Clive, UT	1	43	12/14/2021	12/17/2021
01707 <i>323</i> /JJK	//0/2021	10/20/2021		-		12/14/2021	12/1//2021
			Totals ^b	36	60,322		

Table 2.1. PCB Waste Certificates of Disposal Summary

^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.

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.

Building	Waste Area Designator
C-333	G-331-18ª
C-333	G-333-37 ^{a,b}
C-333	PCB/180-333-01°
C-335	G-335-17 ^{a,d}
C-337	G-337-02ª
C-337	G-337-03ª
C-337	G-337-PCB-02 ^a
C-400	30DAA-400-01°
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-757-03ª
C-759	30DAA-759-01 ^g

Table 3.1. PCB Waste Storage Areas at the Paducah Site

^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.

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.

5. PCB ELECTRICAL EQUIPMENT IN SERVICE

No PCB (\geq 500 ppm) transformers or PCB (\geq 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.

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

Table 5.1. PCB Electrical Equipment in Serviceas of December 31, 2021

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

6. PCB WASTE ACTIVITY

PCB waste activities performed by the facility during 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	
	pc	kg	pc	kg	pc	kg	pc	kg	pc	kg	pc	kg	pc	kg
ARTICLES	2	32,795	0	0	2	32,795	0	0	16	344	13	6,310	5	26,828
PCB Transformer Components (drained)	0	0	0	0	0	0	0	0	16	7,826	13	6,310	3	1,515
PCB Transformers (drained)	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
Large Capacitors	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Light Ballasts	1	23	0	12	1	35	2	676	0	0	1	35	2	676
Misc. Equip. (motors, pumps, etc.)	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
Liquids ^d	4	897	0	0	4	897	10	2,145	0	0	11	2,366	3	676
Solids	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MG/Kg ^e												<u> </u>		
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.

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

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

^fDue to rounding, the weight totals may vary.

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	UHWM #	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
		Waste Control Specialists, Andrews,						
WP-9519-01	12/14/2021	TX Waste Control	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	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

	1. Generator ID Number/ pp	390008982	2. Page 1 of	3. Emerc	enoviReaponee	Rhote:		Tracking Nur	nber		
WASTE MANIFEST	ST Generality With address (if difference in the observed of the constraint of the standard address of the observed of the constraint of the standard address of the observed of	and and a second second	01	L969	504	9 J ,	J				
WASTE MANIFEST GenEMARK SHAMMARK Allower Ship, LLC, (FRNP) 55111 Hobbs Road, Kevil, KY 42053 merators Phone: Transporter 1 Company Name RSB LOGISTICS Inc. Transporter 2 Company Name Designated Facility Name and Site Address EnergySolution's Clive Disposal Site-Bulk Wa US I-80 Exit 49, Clive, UT 84029 clivs Phone: 1-435-884-0155 and Packing Group (fany)) a 10.10.321, Radioactive material, low specific activity (237, To-99, Th-230, U-234, Solid/Oxide, 224 MBq, Fr 2. 3. 4. 4. Special Handling Instructions and Additional Information Truck: 56115 Van: 253203 TiD: 0349648 ERG # 162 In the event of an RQ Release Exclusive Lise Shipment, See Attachment for Generators/Soffereor's Entirefaction: Interby deate that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of this consignment conform to the terms of Lerdity that the contents of the contents of the contents of the contents A the content of the terms of Lerdity that the content of the contents A the con											
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and Packing Group (if a	any))				No.	Туре	Quantity	Wt./Vol.	13. V	aste Code	łS
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Designated Facility Owner of	or Operator: Certification of rece	eipt of hazardous materials			t as noted in Iten	n 18a				1h D-	_
	WASTE MANIFEST Senfortors Name and Marking Statutes Sta	WASTE MANIFEST Senders Rime Same Same Same Same Same Same Same Sa	WASTE MANIFEST and RMUE RAINEST MAINERATION FOR STATEMENT, LLC. (FRNP) 55111 Hobbs Road, Kevil, KY 42053 verator's Phone: anapotter 1 Company Name RSB LOGISTICS Inc. ransporter 2 Company Name RSB LOGISTICS Inc. ransporter 2 Company Name Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Wast US I-80 Exit 49, Clive, UT 84029 Jitys Phone: 1-435-884-0155 Bb. US. DOT Description (including Proper Shipping Name, Hazard Class, ID N and Packing Group (if any)) 1. UN 3321, Radioactive material, low specific activity (LS/ 237, Tc-99, Th-230, U-234, Solid/Oxide, 224 MBq, Fissil 2. 3. 4. 4. 5. 2. 3. 4. 4. 5. 2. 3. 4. 5. CetterRators/StofFERON'S CERTIFICATION: Thereby declare that the contents of this consignment conform to the terms of the 1 certify that the owners of this consignment conform to the terms of the 2 certarotyOfforty Printed/Typed Name ChemeratoryOfforty Printed/Typed Name ChemeratoryOfforty Printed/Typed Name ChemeratoryOfforty Printed/Typed Nam	WASTE MANUFEST SarRetures River Bandwards gate for the state of the st	WASTE MANIFEST Genefitities Safetimes KinetuchMunipergelisertmenship, LLC. Genefitities (FRNP) PF 5511 Hobbs Road, Kevil, KY 42053 PF meanors Phone: Imagenter I Company Name RSB LOGISTICS Inc. RSB LOGISTICS Inc. ransporter 2 Company Name Imagenter I Company Name Beiggented Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility US. LOB Exit 49, Clive, UT 84029 1435-884-0155 9b. US. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (famy)) 1 1 UN 3321, Radioactive material, low specific activity (LSA-II), 7, (PCE), Np-237, To-99, Th-230, U-234, Solid/Oxtide, 224 MBq, Flastle Excepted 2. 3. 3. Genefities of failed Statement defities of f	WASTE MANIFEST Genetalify@Bit Address Sandar Rinkingsachingaging Paducah Ga 5511 Hobbs Road, Kevil, KY 42053 5511 Hobbs Paducah Ga 5511 Hobbs RSB LOGISTICS Inc. Imagendre 1 Company Name. Designated Facility Name and Site Address 5511 Hobbs Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Designated Facility Name and Site Address Imagendre 1 Company Name. Distribution State Designated Facility Company Name. Imagendre 1 Company Name. State Desit 1 Company Name. Imagendes Address	WASTE RAVIEST Central Middle Address (If different in Paducach Saseous Di 5611 Hobbs Road, Kevil, KY 42053 Santardor Functional Middle Address (If different in Paducach Saseous Di 5611 Hobbs Road, Kevil, KY 42053 S611 Hobbs Road, Kevil, KY 42053 Waste Mark Toward Name S611 Hobbs Road, Kevil, KY 42053 S611 Hobbs Road, Kevil, KY 42053 Waste Mark Toward Name S611 Hobbs Road, Kevil, KY 42053 S611 Hobbs Road, Kevil, KY 42053 Waste Mark Toward Name Second State Saseous Di 500 State Saseous Di 5		In Check Instantian Strate Products (Control of Control of Contro	International and the second of the secon	Intersection 019635049 J. Sector Reservice Company Intersection (KNV 42063 Company Reveal Company Compa

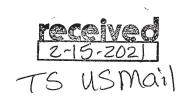
PCB and Additional Information Attachment, Page 2 of 2

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 (Ib)	Net Wt (Kg)	Maximum Activity MBq
9b.1	121998	121998-03		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



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.

Ple	ase pr	int or type.							Approved. ON	//B No. 20	050-0039			
Î	W	FORM HAZARDOUS 1. Generator ID Nurpear 8890008982	2. Page 1 of	50 - 1 6296000 - 1	ienex. Edeboule		01		^{imber} 505() JJ	K			
	5. Ge	alealurs Risperad Wardgaudearmership, LLC,					in mailing addre							
		(FRNP)					fusion Plar							
		5511 Hobbs Road, Kevil, KY 42053		55	11 Hobbs	Rd, Kevil.	, KY 42053	3						
		erator's Phone:												
	6. Tra	ansporter 1 Company Name RSB LOGISTICS Inc.					U.S. EPA ID Number VVAR 000012005							
	7. Tra	ansporter 2 Company Name					U.S. EPA ID	U.S. EPA ID Number						
	8. De	esignated Eacility Name and Sile Address Energy Solutions Clive Disposal Site-Treatment Fac	sility				U.S. EPA ID	Number						
		US I-80 Exit 49, Clive, UT 84029												
	Facil	1–435–884–0155 ity's Phone:					1	UTD98	2598898					
	9a.	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number,			10. Conta	iners	11. Total	12. Unit	12 W/o	ste Codes				
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	15.	See Attachment for Additional Info GENERATOR'S/OFFEROR'S CERTIFICATION: Thereby declare that the contents of this	consignment	aro fully an	d accurately de	ecribed above			9750-04-(bor			
		marked and labeled/placarded, and are in all respects in proper condition for transport acc	ording to appli	cable interr	national and nat									
		Exporter, I certify that the contents of this consignment conform to the terms of the attacher I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large				all quantity gen	erator) is true.							
	Gene	stator's/Offeror's Printed/Typed Name	O Sig	nature	100	1.11	'~		Month	Day	Year			
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ATEI	186.3	Signature of Alternate Facility (or Generator)	SMC	11					Month	Day	Year			
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EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

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DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

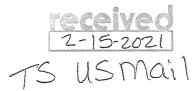
PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695050 JJK

Shipment ID Number: 9750-04-0007

Shipment Date: 1/28/2021

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (Ib)	Net Wt (Kg)
9b.1	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



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.

SALE OTHER SEALLINGING I	1. Generator ID Number KY 8890008982	2. Page 1 of 3. Erner			4. Manifest	Fracking No	Approved.		
WASTE MANIFEST		2	1-270-44				<u>)505</u>)4 Ju	JK
Generator's Name and Mallin	g Address Partnership, LLC, (FRNP)		Contraction of the second s		-	s)			
5511 Hobbs Road,			'RNP on be 'aducah Ga			1t			
ienerator's Phone: 2	70-441-5310	1	511 Hobbs						
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Transporter 2 Company Nam	a				U.S. EPAID N	lumber			
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	Clive Disposal Site-Treatmer	nt Facility			0.0. EI AID I	10:110:01			
	Clive, UT 84029	,							
acility's Phone: 1-435-8	34-0155						B25988	98	
	on (including Proper Shipping Name, Hazard Class,	ID Number,	10. Contair	ners	11. Total	12. Unit		Waste Code	.e
HM and Packing Group (if a	10		No.	Туре	Quantity	Wt./Vol.	15.	wasie Gode	
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(D007, PCB), N	5-237, To-99, Th-230, U-234, Solid	d/Oxide, 2390 MBq,	1	СМ	9489	K			
Fissile Excepted									
3.									
Four Rivers Nuclear Partner	ship, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a	Co-Generator agr	eement dated	September 13, 20	। 1.7. Under ध	i iis agreement	1 t,	
EM0004895, including, but I	orming all Resource Conservation and Recovery Act (not limited to, characterizing waste, manifesting wast	te to off-site facilities, packaging and	labeling waste for	transport, and	f storing and man	arine waste	in accordance	06- CE	
with RCRA requirements. To I. Special Handling Instruction	ansportation hereunder is for DOE and the actual tot as and Additional Information	tal transportation charges paid are to	be reimbursed by	the Governme	ent pursuant to Co	ontract DE-E	M0004895.		l
	railer 969 TID: N/A	Accumulation	n Start Date	44404	1 20	000 0	tart Date		04/20
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Evoluciva Llas C	simmersh Dan All I I I I		M0237	1				-	
5. GENERATOR'S/OFFERC	R'S CERTIFICATION: I hereby declare that the co	ntents of this consignment are fully a	and accurately de	scribed above	by the proper sh	inning nam	e and are cla	issified, pack	täged,
		impropert according to applicable late	motional and not	and governm	ontol regulations	If avaart at	diamont and I	are the Drive	
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Allan F. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695054 JJK

Shipment ID Number: 9750-01-0082

Shipment Date: 2/23/2021

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 MBa
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

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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LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	019692024221
Profile No.:	9753-01-0582	State Manifest No.:	NA

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

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

REF #	3. US EPA HAZARDOUS	ENTER THE SUBCATEGORY DESCRIPTION TENOT APPLICABLE SIMPLY CHECK NONE			
	WASTE CODE(S)	DESCRIPTION	NONE	ENTER LETTER FROM BELOW	
1	D007	TCLP Chromium		A	
2	D008	TCLP Lead		А	
∢ 3					
44		Qu 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 🛛 If no UHCs are present in the waste upon its initial generation check here: 🗌

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

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

	This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
	Sor Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
B.1	RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
	"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this
	certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and
	maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are
	significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
B.3	GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
	"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this
	certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have
	been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith
	efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
B.4	DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
	"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This
	decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties
	for submitting a false certification, including the possibility of fine and imprisonment."
С.	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)	Date: 2021.02.22 09:58:31 -05'00'	_ Title	Waste Engineer	Date	
			Form A1 Page 1 of 2		

Page 1 of 7

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

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

	SOLVENT WASTE TREATMENT STANDARDS ²							
F001 through F005 spent solvent constituents and their associated	Treatment Standard ¹		F001 through F005 spent solvent constituents and their associated USEPA hazardous	Treatment Standard ¹				
USEPA hazardous waste code(s). Wastewaters Nonwastewaters waste		waste code(s).	Wastewaters	Nonwastewaters				
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP) ³			
Benzene (F005)	0.14	10	Methylene chloride (F001, F002)	0.089	30			
n-Butanol (n-butyl alcohol) (F003)	5,6	2.6	Methyl ethyl ketone (F005)	0.28	36			
Carbon disulfide (F005)	3.8	4.8 (TCLP) ³	Methyl isobutyl ketone (F003)	0.14	33			
Carbon tetrachloride (F001)	0.057	6.0	Nitrobenzene (F004)	0.068	14			
Chlorobenzene (F002)	0.057	6.0	2-Nitropropane (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	INCIN			
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16			
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethylene (F001, F002)	0.056	6.0			
Cyclohexanone (F003)	0.36	0.75 (TCLP) ³	Toluene (F005)	0.080	10			
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0			
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0			
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0			
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30			
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2- trifluoroethane (F002)	0.057	30			
Isobutanol (Isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p- isomers) (F003)	0.32	30			

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

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

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

SUBCATEGORY REFERENCE

D001:

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

D002:

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

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name:	FRNP		Manifest Doc. No. :	019	6950545516
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Profile No.:

9750-01-0582-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.

State Manifest No .:

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.

DEF 11	3, US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHEC	5. HOW MUST THE WASTE BE MANAGED? ENTER			
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	N	ONE	LETTER FROM FORM A1, PAGE 1	
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2021.02.22 10:00:35 - 05'00' Signature

Title Waste Engineer

> Form A2 Page 1 of 2

Date

CP3-WM-0437-F04 FR1

Page 3 of 7

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name:	FRNP	Manifest Doc. No. :	0196950545516

9750-01-0082

Profile No.:

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

State Manifest No.:

NF

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

	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECH	5. HOW MUST THE WASTE BE MANAGED? ENTER			
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION		ONE	LETTER FROM FORM A1, PAGE 1	
36	<					
37						
38						
39						
40						
41						
42						
43			X			
44		/				
45						
46						
47						
48						
49						
50			Γ			
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53		JW 2/22/2021	Γ			
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65	K					

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

Form A2 Page 2 of 2

Page 4 of 7

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

Generator Name:

FRNP	Manifest Doc.	No.	:

Profile No.:

9750-01-0382______ State Manifest No.:

054,73K 019695

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	4	0.059	3.4	2-Chloro-1,3-butadiene	</td <td>0.057</td> <td>0.28¹</td>	0.057	0.28 ¹
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	38 ¹	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone	1	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	QN 212212021	0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol	10	0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene	K >	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	Comment of the second s	0.0561	1.41
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.0561	1.41	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	1.41	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055 ¹	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³		0.11	6.8	Dibenz(a,h)anthracene	<i> </i>	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 1,2-Dibromomethane/		0.11	15
Benzo(a)pyrene		0.061	3.4	Éthylene 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		0.0421	1.4 ¹	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane	<u> </u>	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		0.0561	1.41	trans-1,2-Dichloroethylene	L	0.054	30
Carbofuran	_	0.0061	0.141	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056 ¹	1.4 ¹	2.6-Dichlorophenol	⊢	0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane	Ju 2/22/2021	0.85	18
Carbosulfan	1	0.028 ¹	1.41	cis-1,3-Dichloropropylene	10-	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	<u>V</u>	0.057	6.0	Diethyl phthalate		0.20	28

Form B1 Page 1 of 3

Page 5 of 7

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate	K	0.10	NA	p-Dimethylaminoazobenzene	<	0.131	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	<i> </i>	0.14	33
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate	<i> </i>	0.14	160
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate	<i> </i>	0.018	NA
2,4-Dinitrophenol 2,4-Dinitrotoluene		0.12	160 140	Methyl parathion Metolcarb	<u>├/</u>	0.014 0.056 ¹	4.6 1.4 ¹
2,4-Dinitrotoluene		0.55	28	Metoicarb	<i> </i>	0,0561	1.4
Di-n-octyl phthalate		0.55	28	Molinate	<i> </i>	0.0421	1.4
Di-n-propylnitrosamine		0.40	14	Naphthalene	<i> </i>	0.042	5.6
1,4-Dioxane		12.0	170	2-Naphthylamine		0.059	NA
Diphenylamine ³		0.92	131	o-Nitroaniline		0.32 0.27 ¹	141
Diphenylnitrosamine ³		0.92	13 ¹	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine		0.92	NA	Nitrobenzene	├ ── <i> </i> ───	0.028	14
Disulfoton		0.007	6.2	5-Nitro-o-toluidine		0.000	28
		0.017	28 ¹			0.0281	13 ¹
Dithiocarbamates (total)	<u> </u>	0.028	0.066	o-Nitrophenol	⊢ /	0.028	
Endosulfan I Endosulfan II	+ /	0.023	0.066	p-Nitrophenol N-Nitrosodiethylamine	/	0.12	29
Endosulfan II Endosulfan sulfate	<u> </u>	0.029	0.13	N-Nitrosodiethylamine	 	a submitte and a submitte	28 2.3 ¹
Endosulfan sulfate	<u>├ </u>	0.029	0.13	N-Nitrosodimetnylamine	<i> </i>	0.40	
Endrin Endrin aldehyde	<u> </u>					0.40	17
	├ ─── │ ──	0.025 0.042 ¹	0.13 1.4 ¹	N-Nitrosomethylethylamine N-Nitrosomorpholine		0.40	2.3
EPTC					⊢/	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	V 2/22/2021	0.0561	0.281
Ethyl ether		0.12	160	Parathion	<u></u>	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	<	0.0421	1.41
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
leptachlor epoxide		0.016	0.066	Phenacetin		0.081	16
lexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
lexachlorobutadiene		0.055	5.6	Phenol		0.039	6.2
lexachlorocyclopentadiene		0.057	2.4	Phorate		0.021	4.6
HxCDDs (All Hexachrorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid		0.055 ¹	28 ¹
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride		0.055	28 ¹
lexachloroethane		0.055	30	Physostigmine	1	0.056 ¹	1.41
lexachloropropylene		0.035	30	Physostigmine salicylate		0.0561	1.41
ndeno(1,2,3-c,d)pyrene		0.0055	3.4	Promecarb		0.0561	1.41
odomethane		0.19	65	Pronamide		0.093	1.5
sobutyl alcohol		5.6	170	Propham		0.0561	1.41
sodrin		0.021	0.066	Propoxur		0.0561	1.41
sosafrole		0.081	2.6	Prosulfocarb		0.0421	1.41
Kepone		0.0011	0.13	Pyrene		0.067	8.2
Nethacrylonitrile		0.24	84	Pyridine		0.014	16
Aethanol		5.6	0.75 mg/l ¹	Safrole		0.081	22
/lethapyrilene	1	0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb	1	0.056 ¹	1.41	1,2,4,5-Tetrachlorobenzene		0.055	14
Methomyl		0.028 ¹	0.141	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor	Ju 2/22/2021	0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)	Ju 2/22/2021	0.000063	0.001
3-Methylcholanthrene	1	0.0055	15	1,1,1,2-Tetrachloroethane	10	0.057	6.0
4,4'-Methylene bis(2-	1				V		
chloroaniline)		0.50	30	1,1,2,2-Tetrachloroethane	V N	0.057	6.0

Form B1 Page 2 of 3

Page 6 of 7

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene	<u> </u>	0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony	<	1.9	2.1 mg/l TCLP
Thiodicarb	1	0.0191	1.41	Antimony		1.9	1.15 mg/l TCLP ⁴
Thiophanate-methyl		0.0561	1.4 ¹	Arsenic		1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l
Triallate		0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/ TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP ⁴
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP ⁴
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30 ¹
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA⁴
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l⁴ 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
Triethylamine		0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3- Dibromopropyl)phosphate	Туре Б	od.hare	0.10 ¹	Nickel		3.98	11 mg/l TCLP⁴
Vernolate	1	0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride	Ju 2/22/2021	0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of om-, and p-xylene		0.32	30	Silver		0.43	0.30 mg/l TCLP
			\rightarrow	Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
				Thallium		1.4	0.078 mg/l TCLP ¹
/	JN 2/22/2021			Thallium	QN 2/22/2021	1.4	0.20 mg/l TCLP ⁴
	0			Vanadium	10	4.3 ²	1.6 mg/l TCLP ²
2			>	Zinc	$\checkmark \rightarrow$	2.61	4.3 mg/l TCLP ²

¹ These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes. ² Not an underlying hazardous constituent requiring treatment in a D001-D043 waste.
 ³ These compounds are regulated by the sum of their concentration instead of as individual constituents.

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

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

Form B1 Page 3 of 3

Page 7 of 7

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ase print or type.						Approved.	ÓMB No.	2050-0039
UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST KY 8890008982	2	rgency Response I 1-270-44 '	-6333		969	505	5 J.	JK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FF 5511 Hobbs Road, Kevii, KY, 42053	RNP F	tor's Site Address (i RNP on beh Paducah Gas i511 Hobbs i	nalf of the secus Diff	FRNP fusion Plar	it.			
Generator's Phone: 270-441-5310 6. Transporter 1 Company Name Specialty Transport Inc.			<u>10, Mevil</u>	U.S. EPA ID I	Vumber	001124	7	
7. Transporter 2 Company Name				U.S. EPA ID I	lumber			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment F US 1-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155	Facility			U.S. EPAID I		1259886	8	
9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID N HM and Packing Group (if any))	Number,	10. Contain No.	ers Type	11. Total Quantity	12. Unit Wt./Vol.		Waste Code	es
1.		1	CM	5552	к	007	000	-
UN 3321, Waste, Radioactive material, Low Specific A D007, PCB), Np-237, To-99, Th-230, U-234, Solid/O Specific Excepted	- *							
3.	:							
					1	1	*	1.1.1.1
4. 14. Special Handling Instructions and Additional Information Truck: 405 Trailer 4875 TID: N/A ERG # 162 In the event of an RO Release cal		on Start Date	11/04			tart Date		/04/20
14. Special Handling Instructions and Additional Information Truck: 405 Trailer 4875 TID: N/A ERG # 162 15 ERG # 162 16 ERG # 162 17 The event of an RQ Release, call the event of an RQ release, call the event of an RQ release in proper condition for trans Exporter, I certify that the contents of this consignment conform to the terms of the locality that the waste minimization statement identified in 40 CFR 262.27(a) (f11 Generators/Offeror's Printed/Typed Name Configure Area Locality Tailer Area Locality Tailer Area	II 1-800-424-8802	PANOZ: and accurately de- ternational and national int of Consent.	372_ scribed above onal governm II quantity ger	If under by the bogers ental regulations	liverabl	e, retur e, a n Tole ippment and 1 Mo	n to ge stifte (Dat am the Prir nth Da	y Year 3 2 1 y Year 3 2 1
14. Special Handling Instructions and Additional Information Truck: 405 Trailer 4875 TID: N/A ERG # 162 In the event of an RQ Release, call 15 EREMENTOR SOFFERENCE CERTIFICATION: All additional Information 15 EREMENTOR SOFFERENCE CERTIFICATION: 16 Instructions and are in all responses in proper condition for trans Exporter, I config that the contents of this consignment conform to the terms of the location to the terms of the location to the terms of the location of trans Generators/Offeror's Printed/Typed Name 16. Interhational Simplements 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Willic Job Mane 18. Discrepancy	H 1-800-424-8802	PAROECT rand accurately det termational and nati nt of Consent. or (b) (ifI am a sma Consent. Port of en Date leavi	scribed above onal governm II quantity ger Langus, try/exit: Longus,	If under by the bogers ental regulations	liverabl	e, retur e, a n Tole ippment and 1 Mo	n to ge soffeeQae am the Prir nth Da 2 2	y Year y Year y Year y Year y Year y Year y Year
14. Special Handling Instructions and Additional Information Truck: 405 Trailer 4875 Truck: 405 In the event of an RQ Release, call 15. OFFERATOR SIGFFERATOR COMPLICATION: AND IN TRUE ADDITION TO THE EXPORTS. I certify that the contents of this consignment conform to the terms of the Locitify that the waster minimization statement identified in 40 CFR 262.27(a) (ff Is Generator's Offeror's PrintedTyped Name Import to U.S. Transporter Acknowledgment of Receipt of Materials Transporter Acknowledgment of Receipt of Materials Transporter Acknowledgment of Receipt of Materials Transporter 2 PrintedTyped Name 18. Discrepancy 18. Discrepancy Indication Space Quantity	H 1-800-424-8802	PARCET r and accurately de- termational and nation th of Consent. or (b) (ffl am a smar Port of en Date leavi ULL C Residue Manifest Reference	scribed above onal governm III quantity ger Lang U.S.: Long U.S.: Long U.S.: Long U.S.:	If unde by that and a second s	liverabl Mapfig Han I export st	e, retur e, all Alexe ipment and f Mo Mo Mo	n to ge Grid (1990) am the Prir inth Da 2 2 2 inth Da 0 1 2 Full Ro	y Year y Year y Year y Year y Year y Year y Year
14. Special Handling Instructions and Additional Information Truck: 405 Trailer 4875 TD: N/A ERG # 162 In the event of an RQ Release, call 15. ERGEATOR SIGPERSAUCERIPLEATION: Attempts and the Interference of the Event of an RQ Release, call 15. ERGEATOR SIGPERSAUCERIPLEATION: Attempts and the Interference of the Event of Event of the Event of the Event of the Event of the Event of Event of the Event of Event of the Event of Event of Event of the Even of Event of Event of Even	II 1-800-424-8802	rand accurately de ternational and nati n' of Consent. Port of en Date leavi	scribed above onal governm III quantity ger Lang U.S.: Long U.S.: Long U.S.: Long U.S.:	If unde by the Registre ental regulation retrator) is true	liverabl Mapfig Han I export st	e, retur e, all Alexe ipment and f Mo Mo Mo	n to ge Grid (1990) am the Prir inth Da 2 2 2 inth Da 0 1 2 Full Ro	y Year y Year 3 Z I y Year y Year ejection

Baction IPP WAXTE'D Baccols Description Date Boroge (P3) (P3)	9b.1 122023 12203-70 PAD20C44978 CONTAMINATED DERIS AND CHROMIUM 11/04/20 10/04/20 400 19,740 8,954 12,240 5,552	9b.1 122023 122023-70 PAD20C44978 PCB CONTAMINATED DERICK 11/04/20 11/04/20 400 19,740 8,954 12,240 5,552 Totals 1
Totais 400 19,740 .8,954 12,240 5,652	Totais 400 19,740 .8,954 12,240 5,652	Totals 1 400 19,740 .8,954 12,240 5,552

A-17

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:

Profile No.:

Manifest Doc. No. : State Manifest No .:

019155

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

Four Rivers Nuclear Partnership (FR-NP)

1125

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

3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK I	5. HOW MUST THE WASTE BE MANAGED?	
WASTE CODE(S)	DESCRIPTION	NONE	ENTER LETTER FROM BELOW
D007	TCLP Chromium		Α
D008	TCLP Lead		, A
	······································		
·	/ Qa/ 2/22/2021		
	HAZARDOUS WASTE CODE(S) D007	3. US EPA HAZARDOUS ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK IN DESCRIPTION D007 D007 D008 TCLP Chromium 008 TCLP Lead	3. US EPA HAZARDOUS ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE. WASTE CODE(S) DESCRIPTION NONE D007 TCLP Chromium

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here I for our HCs are present in the waste upon its initial generation check here:

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

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

A.	RESTRICTED WASTE REQUIRES TREATMENT
	This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
	🔀 For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268,45."
B.1	RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
	"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this
	certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and
	maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are
	significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
B.3	GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
	"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this
	certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have
	been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith
	efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
B.4	DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
	"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This
	decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties
o /	for submitting a false certification, including the possibility of fine and imprisonment."
C. ′	RESTRICTED WASTE SUBJECT TO A VARIANCE
	This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
D.	For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45." RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
μ.	"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."
Е.	WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
L.	This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.
	This waste is a newly testinined waste that is not carrently subject to any to or first all 200 resultations.
I la ana la	

JOSHUA NORMAN	Digitally signed by JOSHUA NORMAN		accuments is complete and a	courate, to the best of my kno	wedge and mormation.
Signature (Affiliate)	(Affiliate) Date: 2021.02.22 09:58:31 -05'00'	Title	Waste Engineer	Date	,
			Form A1 Page 1 of 2	v	ſ
CP3-WM-0437-F04 FR1-	÷		,		Page 1 of 7

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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 STANDARDS2									
F001 through F005 spent solvent constituents and their associated	Treatment Standard ¹		F001 through F005 spent solvent constituents and their associated USEPA hazardous	Treatment Standard ¹					
USEPA hazardous waste code(s).	Wastewaters	Nonwastewaters	waste code(s).	Wastewaters	Nonwastewaters				
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP) ³				
Benzene (F005)	0.14	10	Methylene chloride (F001, F002)	0.089	30				
n-Butanol (n-butyl alcohol) (F003)	5.6	2.6	Methyl ethyl ketone (F005)	0.28	36				
Carbon disulfide (F005)	3.8	4.8 (TCLP) ³	Methyl isobutyl ketone (F003)	0.14	33				
Carbon tetrachloride (F001)	0.057	6.0	Nitrobenzene (F004)	0.068	14				
Chlorobenzene (F002)	0.057	6.0	2-Nitropropane (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	INCIN				
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16				
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethylene (F001, F002)	0.056	6.0				
Cyclohexanone (F003)	[.] 0.36	0.75 (TCLP) ³	Toluene (F005)	0.080	10				
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0				
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0				
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0				
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	, 3Ó				
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2- trifluoroethane (F002)	0.057	30				
Isobutanol (Isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p- isomers) (F003)	0.32	30				

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

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

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

SUBCATEGORY REFERENCE

D001:

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

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

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

D002:

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

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

Form A1 Page 2 of 2

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LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name:	FRNP	Manifest Doc. No. :	019695055JJK
Profile No	9751-01-0083	State Manifest No	AN

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

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

REF #	3. US EPA HAZARDOUS	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	NONE.	5. HOW MUST THE WASTE BE MANAGED? ENTER
NEF #	WASTE CODE(S)	DESCRIPTION	NONE	LETTER FROM FORM A1, PAGE 1
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2021.02.22 10:00:35 -05'00'

0		-
Title	Waste Engineer	

Form A2 Page 1 of 2 Date

PAD-WD-0598-R7-V	9	
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122023-70

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name:	FRNP	Manifest Doc. No. :	019695055	53515
Profile No.:	9750-01-0683	State Manifest No.:	NA	
	ation from form A1 for a waste identified by more tha a Land Disposal Notification and Certification Form.		de/subcategory groups.	This page by itself

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

	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	NONE.	5. HOW MUST THE WASTE BE MANAGED? ENTER
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	NONE	LETTER FROM FORM A1
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. Signature JOSHUA NORMAN (Affiliate) Date: 2021.02.22 10:01:14 -05'00'

Title Waste

Form A2 Page 2 of 2 Date

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

Generator Name:	FRNP	Manifest Doc. No. :	019685355 JJK
Profile No.:	9758-01-0083	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
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	381	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		0.0621	NA ¹
Actylonithe				Chloromethane/Methyl			
Aldicarb sulfone	JN 212212021	0.0561	0.28 ¹	chloride		0.19	30
Aldrin	<u> </u>	0.021	0.066	2-Chloronaphthalene	QN 212212021		5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol	10	0.044	5.7
Aniline		0.81	14	3-Chioropropylene	·/	0.036	30
Anthracene		0.059	3.4	Chrysene	K >	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	1.41	o,p'-DDD		0.023	0.087
Bendiocarb		0.056 ¹	1.41	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	C. C.	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	· · · · · · · ·)			5		
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		0.0421	1.4 ¹	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane	L	0.059	6.0
2-sec-Butyl-4,6- dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl	<u> </u>	0.0061	0,141	1,1-Dichloroethylene		0.025	6.0
Carbenzadim	1	0.0561	1.41	trans-1,2-Dichloroethylene	1.	0.054	30
Carbofuran	- 	0.0061	0.141	2,4-Dichlorophenol	1	0.044	14
Carbofuran phenol		0.056 ¹	1.41	2.6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride	1	0.057	6.0	1,2-Dichloropropane	JN 2/22/2021	0.85	. 18
Carbosulfan	11	0.0281	1.41	cis-1,3-Dichloropropylene	10	0.036	18
Chlordane (alpha and gamma	1)		trans-1,3-Dichloropropylene	1	0.036	18
isomers)		0.0033	0.26				
p-Chloroaniline	1	0.46	16	Dieldrin		0.017	0.13
Chlorobenzene	W	0.057	6.0	Diethyl phthalate		0.20	28

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CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate	←────	0.10	NA	p-Dimethylaminoazobenzene	<i>←</i>	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		0.20	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.0561	1.4 ¹
2,6-Dinitrotoluene		0.55	28	Mexacarbate		0.0561	1.41
Di-n-octyl phthalate		0.017	28	Molinate		0.0421	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	·	0.32 0.27 ¹	14 ¹
Diphenylnitrosamine ³		0.92	13 ¹	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine		0.92	NA	Nitrobenzene	<i> </i>	0.028	14
					<i> </i>	0.000	28
Disulfoton		0.017	6.2	5-Nitro-o-toluidine			
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	J 2/22/2021	0.056 ¹	0.28 ¹
Ethyl ether		0.12	160	Parathion	\sim	0.014	4.6
Bis(2-Ethylhexyl)phthalate		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)	А	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	I	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		0.033	4.6
HxCDDs (All					├ ────, / ───		
Hexachrorodibenzo-p-dioxins)	·	0.000063	0.001	Phthalic acid	/	0.0551	28 ¹
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride		0.055	28 ¹
Hexachloroethane	⊢ ∣	0.055	30	Physostigmine	<i> </i>	0.056 ¹	1.4 ¹
Hexachloropropylene		0.035	30	Physostigmine salicylate	<i> </i>	0.0561	1.41
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	L	0.021	0.066	Propoxur	L	0.0561	1.41
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	JN 2/22/2021	0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)	Ju 2/22/2021	0.000063	0.001
3-Methylcholanthrene	ľ	0.0055	15	1,1,1,2-Tetrachloroethane	1"	0.057	6.0
	· · · ·		30	1,1,2,2-Tetrachloroethane		0.057	6.0
4,4'-Methylene bis(2-	2 C	0.50	130 -				

Form B1 Page 2 of 3

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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/	2.6	Barium	· /	1.2	21 mg/l TCLP⁴
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
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP ⁴
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30 ¹
2,4,5-Trichlorophenol		0.18	7,4	Fluoride	· · · ·	35	NA⁴
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l⁴ 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 t	ext.here	0.10 ¹	Nickel		3.98	11 mg/l TCLP⁴
Vernolate		0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride	JN. 2/22/2021	0.27	6.0	Selenium		0.82	5.7 mg/l TCLP⁵
Xylenes – mixed isomers (sun of o-,m-, and p-xylene	· K>	0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP ⁴
, 7				Sulfide		14	NA ²
		T		Thallium	1	1.4	0.078 mg/l TCLP ¹
	JN 2/22/2021			Thallium	Ju 2/22/2021	1.4	0.20 mg/l TCLP ⁴
				Vanadium		4.3 ²	1.6 mg/l TCLP ²
V.			>	Zinc		2.61	4.3 mg/l TCLP ²

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

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

 ³ These compounds are regulated by the sum of their concentration instead of as individual constituents.
 ⁴ These constituents are effective in authorized states or states with no LDR program on 8/24/99. These concentrations are effective in all other states upon adoption by the state.

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

Form B1 Page 3 of 3

ise print or type.	1. Generator ID Number		2. Page 1 of	 Emergency F 	esponse	Phone	4. Manifest	Tracking N	umber		
UNIFORM HAZARDOUS WASTE MANIFEST		890008982	2			-6333	01	969	950	59 J	JK
5. Generator's Name and Mailin	g Address			Generator's Site	ddress ((if different that					
Four Rivers Nuclear P	artnership, LLC, (FR	NP) on behalf of FRNF	>	FRNP o	n beha	alf of the	FRNP				
5511 Hobbs Road, I	(evil, KY 42053			Paducal	Gase	eous Diffi	usion Plant	:			
Generator's Phone: 27 6. Transporter 1 Company Nan	-441-5310			5511 Ho	bbs R	d. Kevil.	KY 42053 U.S. EPAID				
CAST Transporter									000538	Q	
7. Transporter 2 Company Nan							U.S. EPA ID		000000		
							1				
8. Designated Facility Name ar	d Site Address						U.S. EPA ID	Number			
EnergySolutions	Clive Di <mark>spo</mark> sal Si	te-Treatment Faci	ility								
US I-80 Exit 49, 0	Clive, UT 84029										
Pacility's Phone -435-89	4-0155								259889	8	
		Name, Hazard Class, ID Num	ber,		. Contair		11. Total	12. Unit	13	. Waste Code	es.
HM and Packing Group (if		1.1	5.71 (5.4. U)	- N).	Туре	Quantity	Wt./Vol.			
		al, Low Specific Activ		f	1	BA	2336	к	D007	0008	
Fissile Excepted	-207, 10-98, 10-230	1, U-234, Solid/Oxide	e, uoo M⊡q,		•		*******				
2.								+			
3.											
Four Rivers Nuclear Partnershi FRNP is responsible for perform	a, LLC (FRNP) and the U.S. Dep ning all Resource Conservation	partment of Energy (DOE) are con and Recovery Act (RCRA) gene	generators pursuar	it to a Co-General	and DOI	nent dated Se E for all activit	ptember 13, 201	7. Under this	agreement,		
EMODARGE including but not				ehalf of both FRN							
with BCRA requirements. Tran	limited to, characterizing was	te, manifesting waste to off-site	e facilities, packagin	g and labeling wa	te for tra	insport, and st	oring and manag	ing waste, li	n accordance		
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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}	M:
9b.1	122023	122023-71	PAD20C44566	PCB CONTAMINATED DEBRIS AND (CONTAMINATED BRICK	CHROMIUM	11/04/20	11/04/20	400	13,040	5,915	5,150	2,336	
		Totals	1					400	13,040	5,915	5,150	2,336	

122023-

	LAND DISPOSAL NOTIFICATIO	ON AND CERTIFIC	ATION
Generator Name:		_ Manifest Doc. No. :	017675059331
Profile No.:	7250-01-0584	_ State Manifest No.:	<u>A</u> MA

Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater 🛛 🛛 Wastewater 🗌 1. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the 2.

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

REF #	3. US EPA HAZARDOUS	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK N	5. HOW MUST THE WASTE BE MANAGED?	
	WASTE CODE(S)	DESCRIPTION	NONE	ENTER LETTER FROM BELOW
1	D007+	TCLP Chromium		A J
2	D008	TCLP Lead		A
▲ 3				· · · · · · · · · · · · · · · · · · ·
4 4		QV 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 🖂 If no UHCs are present in the waste upon its initial generation check here:

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

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

A.	RESTRICTED WASTE REQUIRES TREATMENT
	This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
	🛛 For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
B.1	RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
	"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and
l.	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."
В.4	DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
D.4	"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This
•	decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
C.	RESTRICTED WASTE SUBJECT TO A VARIANCE
	This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
	For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
D.	RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
μ.	"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
1.	certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete.
	I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."
E.	Waste is Not Currently Subject to Part 268 RESTRICTIONS
L .	This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.
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.
Cianatu	(Affiliate)
Signatu	re (Affiliate) Date Title Waste Engineer Date

Form A1 Page 1 of 2

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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 WAS	TE TREATMENT STANDARDS2		and and a second second		
F001 through F005 spent solvent constituents and their associated	Treatmo	ent Standard ¹	F001 through F005 spent solvent constituents and their associated USEPA hazardous	Treatment Standard ¹			
USEPA hazardous waste code(s).	Wastewaters	Nonwastewaters	waste code(s).	Wastewaters	Nonwastewaters		
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP) ³		
Benzene (F005)	0.14	10	Methylene chloride (F001, F002)	, 0.089	30		
n-Butanol (n-butyl alcohol) (F003)	5.6	2.6	Methyl ethyl ketone (F005)	0.28	36		
Carbon disulfide (F005)	3.8	4.8 (TCLP) ³	Methyl isobutyl ketone (F003)	0.14	33		
Carbon tetrachloride (F001)	0.057	6.0	Nitrobenzene (F004)	0.068	14		
Chlorobenzene (F002)	0.057	6.0	2-Nitropropane (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	INCIN		
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16		
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethylene (F001, F002)	0.056	6.0		
Cyclohexanone (F003)	0.36	0.75 (TCLP) ³	Toluene (F005)	0.080	10		
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0		
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0		
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0		
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30		
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2- trifluoroethane (F002)	0.057	30		
isobutanol (isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p- isomers) (F003)	0.32	30		

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

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

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

SUBCATEGORY REFERENCE

D001:

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

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

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

D002:

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

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

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D۸	D-WD-059	0 07 10	12	2023-71						
ΓА	960-CT ۸۸ -CT	0-IX/-V7	LA	ND DISPOSAL NOTIFICATION AND CERTIFICATION (PHAS	E١	V)				
,	Generator N	lame:	FRNP	Manifest Doc. No. : <u>G19</u>	019695059 00					
	Profile No.: 97		97	50-01-0084 State Manifest No.:	NA					
This form is a continuat <u>IS NOT</u> an acceptable I Continue (from form A1		tion fro Land E	m form A1 for a waste identified by more than five USEPA waste code/subca Disposal Notification and Certification Form.	nt (a	as de	efined by 40 CFR 261). Fo				
	not have a	subcategor	v.). Als	he corresponding subcategory (write in the description from 40 CFR 268.40, o o identify in column 5 how the waste must be managed. Spent solvents are lis hazardous constituent(s) if applicable, must be listed and attached.	or cr sted	on l	Form A1, Page 2. F039			
1		3. US E	PA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK N	ONE	5	5. HOW MUST THE WASTE BE MANAGED? ENTER			
	REF #	HAZARD WASTE CC			NON		LETTER FROM FORM A1, PAGE 1			
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. Signature JOSHUA NORMAN (Affiliate) Date: 2020.09.24 09:27:11 -04'00'

7 Title __ Waste Engineer Date dy. Form A2 Page 1 of 2 Page 3 of 7 CP3-WM-0437-F04 FR1

PAD-WD-0598-R7-V9

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LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

5.7		1	
Generator Name:	FRNP	Manifest Doc. No. :	619695659JJK
·		_	

Profile No.:

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

State Manifest No .:

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

	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	5. HOW MUST THE WASTE BE MANAGED? ENTER		
REF #	HAZARDOUS WASTE CODE(S)	DESCRIPTION	NO	NE	LETTER FROM FORM A1, PAGE 1
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2020.09.24 09:27:47 -04'00'

Signature

Title Waste Engineer

> Form A2 Page 2 of 2

Date

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

Generator Name:	FRNP	/	Manifest Doc. No. :	019695059 33	K

Profile No.:

9750-01-0084

State Manifest No.:

Ù.

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

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene	<	0.059	3.4	2-Chloro-1,3-butadiene	←────	0.057	0.28 ¹
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15 (
Acetone		0.28	160	Chloroethane	/	0.27 '	6.0
Acetonitrile		5.6	38 ¹	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone	· · · · ·	0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform		0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acylamide		19 ¹	23 ¹	p-Chloro-m-cresol		0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.0621	NA ¹
Aldicarb sulfone		0.05 ⁶¹	0.28 ¹	Chloromethane/Methyl chloride	gu.	0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene	9/24/2020	0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene	1	0.059	3.4	Chrysene	K >	0.059	3.4
Aramite	C	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		0.0551	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		0.0421	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		0.0061	0.141	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.0061	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		0.0281	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)	JN 9/24/2020	0.0033	0.26	trans-1,3-Dichloropropylene	JN 9/24/2020	0.036	18
p-Chloroaniline	10	0.46	16	Dieldrin		0.017	0.13
Chlorobenzene	V N	0.057	6.0	Diethyl phthalate		0.20	28

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PAD-WD-0598-R7-V9

CONSTITUENT	HOW MUST	WW	NWW	CONSTITUENT	HOW MUST	ww	NWW
CONSTITUENT				CONSTITUENT	THIS	(mg/l)	(mg/kg)
	THIS	(mg/l)	(mg/kg) unless		CONSTITUENT	(mgn)	unless
	BE MANAGED?		noted		BE MANAGED?		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		0.038	28	Methyl ethyl ketone	/	0.003	36
			28	Methyl isobutyl ketone	/	0.14	33
Di-n-butyl phthalate		0.057	2.3		/	0.14	160
1,4-Dinitrobenzene		0.32		Methyl methacrylate	······································	0.018	NA
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate			
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb	<i>_</i>	0.0561	1.4 ¹
2,6-Dinitrotoluene		0.55	28	Mexacarbate	/	0.0561	1.41
Di-n-octyl phthalate		0.017	28	Molinate		0.0421	1.41
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
DiphenyInitrosamine 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	281	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	W 9/24/2020	0.013	35
Ethyl cyanide/Propanenitrile		0.24	360	Oxamvl		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 mothe op data		0.14	160	Pebulate		0.042 ¹	1.41
Ethyl methacrylate		0.14	NA	Pentachlorobenzene	<	0.0551	1.4 10 ¹
Ethylene oxide	3			Perilaciilorobenzene PeCDDs (All			
Famphur		0.017	15	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	1	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	1	0.057	2.4	Phorate		0.021	4.6
HxCDDs (All Hexachrorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid		0.0551	281
HxCDFs (All		0.000063	0.001	Phthalic anhydride		0.055	28 ¹
Hexachlorodibenzofurans)							
Hexachloroethane	3	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	1	0.056 ¹	1.4 ¹	1,2,4,5-Tetrachlorobenzene		0.055	14
Methomyl		0.0281	0.14 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor	JN 9/24/2020	0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)	W 9/24/2020	0.000063	0.001
3-Methylcholanthrene	012412020	0.0055	15	1,1,1,2-Tetrachloroethane	7	0.057	6.0
4,4'-Methylene bis(2-		0.50	30	1,1,2,2-Tetrachloroethane	V 、	0.057	6.0
chloroaniline)							

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CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene	<	0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony	←	1.9	2.1 mg/l TCLP
Thiodicarb ,		0.0191	1.41	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	1.41	Beryllium		0.82	0.014 mg/l
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 $^{\circ}$	Cadmium		0.69	0.11 mg/l
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	Nickei		3.98	5.0 mg/l TCLP
Tris-(2,3- Dibromopropyl)phosphate		0.11	0.101	Nickel		3.98	11 mg/l TCLP⁴
Vernolate	JN 9/24/2020	0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride	10	0.27	6.0	Selenium		0.82	5.7 mg/l
Xylenes - mixed isomers (sum of o-,m-, and p-xylene	k>	0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP ⁴
			T	Sulfide		14	NA ²
-			s .	Thallium		1.4	0.078 mg/l TCLP ¹
/	QN 9/24/2020			Thallium	JN 9/24/2020	1.4	0.20 mg/l TCLP ⁴
				Vanadium	10	4.3 ² ·	1.6 mg/l TCLP ²
			>	Zinc	¥>	2.61	4.3 mg/l TCLP ²

¹ These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes. ² Not an underlying hazardous constituent requiring treatment in a D001-D043 waste.

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

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

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

Form B1 Page 3 of 3

CP3-WM-0437-F04 FR1

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Page 7 of 7

e print or type. 2. Page 1 of 3. Em	ergency Response	e Phone	4. Manifest		n Approved.	OMB No.	2050-0039		
WASTE MANIFEST KY 8890008982 2	1-270-44	1-6333		969	<u>9507</u>	<u>1 J</u>	JK		
Four Rivers Nuclear Partnership, LLC, (FRNP) on behair of FRNP F 5511 Hobbs Road, Kevil, KY 42053 F Generators Prone: 270-441-5025 5	tor's Site Address RNP on bei aducah Gat 511 Hobbs	nalf of the seous Difl	FRNP usion Plant KY 42053						
. Transporter 1 Company Name Tri-State Motor Transit			U.S. EPA ID N		095038	008			
Transporter 2 Company Name			U.S. EPA ID Number						
R. Designated Eaclifity Nama and Site Address		<u>.</u>	U.S. EPA ID N	lumber					
EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facilitys Phone: 1-435-884-0155	1_135_994_0155								
9a. 9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number,	10. Conta		11. Total	12. Unit	13.	Waste Cod	es		
HM and Packing Group (if any))	No.	Туре	Quantity	Wt./Vol.					
UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), To-99, U-234, Solid/Oxide, 2856 MBq, Fissile Excepted	4	СМ	1854	ĸ		$J_{1,2}$			
 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	СМ	1024	к					
3.						-			
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PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695071JJK

Shipment ID Number: 7340-08-0012 Shipment Date: 3/4/2021

UHWM Section	RFD	Container / WASTE 1D	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	 Gross Wt (Kg) 	NET WT (Ib)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122179	122179-01	PAD20C44945	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

A-35

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

Plea	ise prii	nt or type.									Approved.	OMB No. 2	2050-0039					
1	W/	ASTE MANIFEST	1. Generator ID Number	· 517	2.7		EMIRIPE		01	Tracking N) <u>509</u>	1 J.	JK					
	5. Gei	Perator's Name and Mailin Four Rivers Nucl	ear Partnership, L	LC,	· ,	Genera	or's Site Address ((if different th	an mailing addre	ess)								
	1 N.	(FRNP)			• •	F	aducah Gas	eous Dif	fusion Plar	ìĊ,								
	5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 5511 Hobbs Rd, Kevil, KY										· .							
		nsporter 1 Company Name	9	×				·	U.S. EPA ID	Number	-	··· · · · · · · · · · · · · · · · · ·						
		Interstate Vent	ures. Inc.			1 A.			h .	TNROD	002/87	2						
	7. Transporter 2 Company Name									U.S. EPA ID Number								
1	8. Des	signated Facility Name and	Site Address	~		· · ·	u		U.S. EPA ID	Number								
×		EnergySolution	s Clive Dispos	al Site-Bulk Wa	ste Facili	ty		r.			•							
		US I-80 Exit 49)29	· · ·				1		0							
			884-0155		Mumber		10 Contain			proco	259889	9						
	9a. HM	and Packing Group (if a		ng Name, Hazard Class, IE	Number,		10. Contain No.	Type	11. Total Quantity	12. Unit Wt./Vol.	. 13.	Waste Code:	s					
GENERATOR -	RQ		active material, iow d/Oxide, 70 MBq, i	specific activity (L Fisslie Excepted	SA-11), 7, (F	РСВ), Th-	1	СМ	44	ĸ	·	I						
NER		2.	· · · ·		· • •													
B									,									
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			×		• •	e.				<u> </u>								
	14. S	pecial Handling Instructions		n D: 0349573	Acc	umulation S	tart Date: N	HA		PCB St		0014	7/00					
				n RQ Release,				1997 C	lf undel			08/1						
		Exclusive Use					<u> </u>				7340-08	-	erator,					
	15. (GENERATOR'S/OFFERO	R'S CERTIFICATION: 1 h	ereby declare that the cont	ents of this cons	ignment are fully			by the proper s	hipping nam	e, and are clas	sified, pack						
		marked and labeled/placan Exporter, I certify that the c						onal governm	ental regulations	s. If export sh	ipment and I	am the Prima	ary					
·		certify that the waste mini		ed in 40 CFR 262.27(a) (if	l am a large qua		r (b) (if I am a sma	ll quantity gei	nerator) is true.		Mor	th Day	Year					
	Gener	rators/Offerors Printed/ Lyr		chalf of F	INP .	Signature	V.11.3	10.:.		· ,		」 して						
¥ ⊒	16. In	ternational Shipments	JUANI CO	chall at 1			Dart of onl	nor	<u> </u>									
L	Trans	porter signature (for expor	import to U.S.	÷.	. Exp	ort from U.S.	Port of ent Date leavir											
	17. Tr	ansporter Acknowledgment	of Receipt of Materials				<u>(</u>											
TRANSPORTER	Trans	porter 1 Printed/Typed Nan	ne			Signature	to			_	Mon 3	th Day ເງິ	Year					
1SP(Trans	TOUSI GAA	MP			Signature					<u>Mor</u>	th Day	J2 ∫ Year					
RAN	1,14110		···· · · ·	1 a 1	· .	J												
⊢	18. Di	screpancy						,			L	l	.					
	18a. D	Discrepancy Indication Spa	ce Quantity		Туре		Residue		Partial Re	election	[Full Reje	ection					
							a.			_	-		*					
7	18h 4	Alternate Facility (or Generation	ator)	recei	Vec	Ν	anifest Reference	Number:	U.S. EPA ID	Number	· · ·	· · · · ·						
FACILITY	10011			4-19-2	021	· ·	2					8						
FAC	Facilit	y's Phone:		TSUS	Mail	<u>.</u>												
	18c. S	Signature of Alternate Facil	ty (or Generator)								Мо	nth Day	Year					
NA.																		
DESIGNATED	19. Ha	azardous Waste Report Ma	anagement Method Codes	(i.e., codes for hazardous	waste treatmen	t, disposal, and re	cycling systems)		4.									
	1. 	H132	2.				.e		4.									
	20. De	esignated Facility Owner o	r Operator: Certification of	receipt of hazardous mate	rials covered by	the manifest exc	pt 🔊 noted in Item	n 18a		x.								
		d/Typed Name		-		Signature	1.	/	111	~	Мо	nth Day	Year					
ł		Slott A	· GLASON	ter an		S	wit X	1.	flu	\mathcal{N}_{-}	0	4 01	21					
EP/	Form	8700-22 (Rev. 12-17)	Previous editions are	obsolete.		V	DES	IGNATE	D FACILITY	TO EPA	's e-MAN	IIFEST S	SYSTEM					
				· 1							Mak		,					

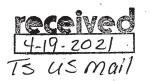
, ; PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695091 JJK

Shipment ID Number: 7340-08-0013

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 (Ib)	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



A-37

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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.

Plea	ase pri	int or type.										17 ippi 0 voc	I. OMB No.		
Ť		FORM HAZARDOUS /ASTE MANIFEST	1. Generator ID Nunpo	¥ 889000898	2	2. Page 1 of	3. Engroup	<u>A</u> LE E			t Tracking Nu		93 J	JK	
	5. Ge	erFeldfeffaperedWallin	add ^e artnership	LLC,			Generator	te Addres:	s (if different th	an mailing addre	ess)				
		(FRNP)		¢ .			Padu	cah Ga	iseous Dif	fusion Plar	nt,		x		
$ ^{2}$		5511 Hobbs Roa	d, Kevil, KY 42	053			5511	Hobbs	Rd, Kevil	I, KY 42053					
	Generator's Phone: 6. Transporter 1 Company Name								U.S. EPA ID Number						
	Interstate Ventures, Inc.							U.S. EPAID							
	7 Tra	ansporter 2 Company Name				· · · ·			£.	U.S. EPA ID	TNR00	003467	8		
	1.10	anoportor 2 company fraine	, ,		,						Trainbol				
	8. De	signated Facility Name and	Site Address		· · · · · · · · · · · · · · · · · · ·					U.S. EPA ID	Number				
		EnergySolution	s Clive Dis <mark>p</mark> a	osal Site-Was	te Treatm	ent Facil	lity								
	· ·	US I-80 Exit 49	, Clive, UT 8	4029	÷										
	Facili	ity's Phone: 1-435-	884-0155								UTD98	259889	98		
	9a.	9b. U.S. DOT Descriptio		ipping Name, Hazard C	lass, ID Number,			10. Conta	ainers	11. Total	12. Unit	- 13	Waste Code	25	
	HM	and Packing Group (if ar	ıy))				•	No.	. Туре	Quantity	Wt./Vol.		1		
1 E	ka	^{1.} UN 3082, Enviro	nmentally hazan	dous substance,	liquid, n.o.s.	(PCB), 9,	IU,								
ĮĂ		(PCB)			· .			1	DM	196	к		1		
GENERATOR	┣—	2.													
믱	1														
11					· · · ·										
		3.	£	· · · · · · · · · · · · · · · · · · ·					· ·						
					*	a			j						
Ш				a 											
		4. Four Rivers Nuclear Par	mership, LLC (FRNP) ar	nd the U.S. Department	of Energy (DOE) a	are co-generator	s pursuant to a	Co-Genera	ator agreement	dated Septembe	er 13, 2017. Un	ider this agri	ement,		
		civiouu4895, including,	but not limited to, chai	racterizing waste, manif	festing waste to o	generator activ	ities on behalf (of both FR/	aste for transpo	rt and storing a	od managing)	warte la ace	andanan		
	FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all active EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and s with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government														
	14. Special Handling Instructions and Additional Information PR09214 Shipment JD: 9759-01											DE-EM0004	895.		
	14. S				e actual total tran	nsportation char	rges paid are to	be reimbu	rsed by the Go	ernment pursua	int to Contract	DE-EM0004	895.	3005	
	14. S	pecial Handling Instructions	and Additional Inform		e actual total tran	nsportation char	rges paid are to	be reimbu 4	rsed by the Go	ernment pursua	int to Contract	: 975	895. 9-04-	daa 8	
		pecial Handling Instructions Truck: Va	and Additional Inform	ation	e actual total tran	Accumula	rges paid are to 2092/ Ition Start	be reimbu 4	rsed by the Go	Shipm	PCB Sta	int Date:	**** *********************************	11/20	
	15.	pecial Handling Instructions Truck: Va ERG #171 In GenerationStoPhenor	and Additional Inform an: 53017 In the event of Inscentificancies	ation TID: 03495 7 fan RQ Relea Cláticona sida n fa ut	73 ase, call 1	Accumula -800-424	rges paid are to 2092/ Ition Start 1-8802 are fully and ac	H Date:	N/A escribed above	If undel	nt to Contract NTTD PCB Sta iverable	: 975 : 975 art Date: :, return	895. 9-04- 08/* n to ger	11/20 Nerator	
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PCB and Additional Information Attachment, Page 2 of 2

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 (ib)	Gross Wt (Kg)	NET WT (Ib)	Net Wt (K
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
				· .					. ·	-
					-					
	-7		_	racaiva						

14-19-2021 TS US Mail

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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Pie	ase pr	int or type.									B No. 2050-0039				
Î	N	FORM HAZARDOUS		Y 8890008982	2	Emergency Response 1-270-441-6	333	01	Tracking Num		JJK				
	5. Ge	enerator's Name and Mailin Four Rivers Nu	g Address Slear Partnershi	p, LLC, (FRNP)	Ger	erator's Site Address -RNP on beha	(if different th alf of the	an mailing addre	ess)						
		on behalf of FR			I	^D aducah Gase	eous Diffu	s Diffusion Plant,							
	Gene	5511 Hobbs Ro erator's Phone:	ad, Kevil, KY 42	2053		5511 Hobbs R	d, Kevil, I	KY 42053							
	6. Tra	ansporter 1 Company Nam			U.S. EPA ID Number										
	7 Tr	CAST Transp			U.S. EPA ID Number										
						Number									
	8. De	signated Facility Name an		U.S. EPA ID	Number										
11		EnergySolutic													
	Facili		-884-0155					1		598898					
	9a.	1	on (including Proper Shi	pping Name, Hazard Class, ID Number,		10. Contai	ners	11. Total	12. Unit						
	НМ	and Packing Group (if a				No.	Туре	Quantity	Wt./Vol.	13. Waste	Codes				
1 8	RC	2 ^{1.} UN 3082, Envi PG III	ronmentally haza	rdous substance, liquid, n.o.	s., (PCB), 9,		-								
RAT		r 9 m				1	DM	204	K -						
GENERATOR	RC	-		low specific activity (LSA-I),											
0		241, PU-238, P Excepted	u-239, Tc-99, Th	230, Liquid/Oxide, 0.3 MBq	, Fissile	1	DM	134	K -						
	RC		roomontally haza	rdous substance, liquid, n.o.											
		PG III	голинсткану пада	idous substance, ilquid, inc.	a., (FGD), S,	1	DM	201	κ –						
		n Diverse Alexandrean Deutersen inte													
	raw	ie is responsible for perforn	ning all Resource Conser	S. Department of Energy (DOE) are co-ge vation and Recovery Act (RCRA) generat g waste, manifesting waste to off-site fa	tor activities on beha	If of both FRND and D	OF for all activ	uition under the e	mana of COMPLET	Contract DE					
	with	RCRA requirements. Trans	portation hereunder is	for DOE and the actual total transportat	ion charges paid are	to be reimbursed by t	ransport, and he Governme	storing and man nt pursuant to Co	aging waste, in a ontract DE-EMOO	occordance 04895.					
	14. S	pecial Handling Instruction			A	o	174								
		Truck: 1430		rent of an RQ Release		ו Start Date: 1 מסמ ססרס	W/A		PCB Start)9/29/20				
				ee Attachment for Add		PR092	29		verable, i ent.ID: 9		generator				
		GENERATOR'S/OFFERO	R'S CERTIFICATION:	I hereby declare that the contents of thi ects in proper condition for transport ac	is consignment are fu	ally and accurately de	scribed above	e by the proper s	hipping name, a	nd are classified	i, packaged,				
		Exporter, I certify that the c	contents of this consigni	ment conform to the terms of the attache	ed EPA Acknowledgr	nent of Consent.	·	U U	s. Il export shiph		stillidiy				
		rator's/Offeror's Pripted/Ty	ped Name	ntified in 40 CFR 262.27(a) (if I am a lar	Signatur					Month	Day Year				
L1		egina tea	on beh	glf of FRWP		equa	pen			<u> 05 </u>	25 21				
INT'L	1	nternational Shipments	Import to U.S	3.	Export from U.S.	Port of en	•								
	+	sporter signature (for expor ransporter Acknowledgmen				Date leavi	ng U.S.:								
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RAN	India		110		- Sigiralui	e	/				Day Tear				
Ĭ₹	1	iscrepancy			1					1 1					
	18a.	Discrepancy Indication Spa	ice 🗌 Quantity	Птуре		Residue		Partial Re	ejection	E Fi	ull Rejection				
						Marife et Dafamare	N								
È	18b. /	Alternate Facility (or Gener	ator)	rafaiva		Manifest Reference	e inumber:	U.S. EPA ID	Number						
FACILITY				620-7	1										
DE		ty's Phone: Signature of Alternate Facil	ity (or Generator)							Month	Day Year				
DESIGNATED			iy (or conclusity	TS emo											
SIG	19. H	azardous Waste Report Ma	anagement Method Coo	les (i.e., codes for hazardous waste trea	atment, disposal, and	d recycling systems)									
믭	1.	+132	2.	4122	3.	L	32	4.							
	20. D		r Operator: Certification	of receipt of hazardous materials cover	red by the manifest e										
		ed/Typed Name			Signatur		/			Month	Day Year				
L¥.	L	Alb				Chart	hun	, 		3	28 21				
EP/	+ Form	1 8700-22 (Rev. 12-17)	Previous editions ar	e obsolete.		DES	IGNATE	D FACILITY	TO EPA's	e-MANIFE	ST SYSTEM				

PCB & Additional Information Attachment, Page 2 of 2

Manifest Number: 019695128 JJK

Shipment ID Number: 9750-04-0009

Shipment Date: 5/25/2021

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (ib)	NET Wt (Kg)	Maximum Activity MBg
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

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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	Four Rivers Nuclear Partnership FRNP is responsible for perform EM0004895, including, but not il with RCRA requirements. Transp	ing all Resource Cons Imited to, characteriz	ervation and Recovery ing waste, manifesting	Act (RCRA) generator a waste to off-site facili	activities on be ties, packaging	half of b and lab	oth FRNP and DOE ling waste for tran	for all activit nsport, and st	ies under the sco oring and manag	pe of FRNP's ing waste, in	s Contract DE- 1 accordance					
Plea	ise print or type.										n Approved.	OMB No.	2050-0039			
Ŷ	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Nu	^{mber} KY 8890008		2. Page 1 of 3		rgency Response -270-441-6		4. Manifest	Tracking N	^{umber} 3514	8 J ,	JK			
	5. Generator's Name and Mailir	ng Address				Generat	or's Site Address ((if different that	an mailing addre	ss)						
	Four Rivers Nucle 5511 Hobbs Ro Generator's Phone:		42053	n behalf of FRNI	p I	Pac	lucah Gased	ous Diffu	of the FRNP is Diffusion Plant Kovil KV 42053							
	6. Transporter 1 Company Nam		,		5511 Hobbs Rd, Kevil, KY 42053 U.S. EPA ID Number											
	Interstate Ven	itures, Inc.							1	TNRO	0003467	8				
	7. Transporter 2 Company Nam				U.S. EPA ID I	Number										
	8. Designated Facility Name an Energy Solutio	d Site Address Insi Clive Dis	sposal Site-Ti	eatment Fac	ility				U.S. EPA ID I	Number						
	US I-80 Exit 4		84029							527						
	Facility's Phone: 1-435	-884-0155								UTD98	3259889	8				
	9a. 9b. U.S. DOT Descripti HM and Packing Group (if a		Shipping Name, Hazar	d Class, ID Number,			10. Contain No.	iers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	s			
ATOR -		PCB), Np-237	ve Material, Iow , Tc-99, Th-230				1	DM	38	к	D006	D007	D008			
GENERATOR	RQ II), 7, (D006, I MBa Fissile E RQ II), 7, (D006, I MBa Fissile E	ste, Radioactiv PCB), Np-237	ve Material, Iow 7, To-99, Th-23				1	DM	28	к	D006	D007	D008			
	^{3.} UN3321, Was RO II), 7, (D006, I	ste, Radioactiv PCB), Am-24	ve Material, Iow 1, Np-237, Pu- 3g. Fissile Exce	238, Pu-239, T			3	DM	78	к	D006	D007	D008			
	^{4.} UN3321, Was	ste, Radioacti D007), Am-24	ve Material, Iow 11, Np-237, Th-	r level specific a			4	DM	63	К	D006	D007	D008			
	ERG # 182 Exclusive Use 15. GENERATOR'S/OFFERC marked and labeled/placa Exporter, I certify that the or I certify that the waste min Geogrator's/Offeror's Printed/Ty Kegy that the vaste min	2. See Attack R'S CERTIFICATIO rded, and are in all re- contents of this consi imization statement roed Name	N: I hereby declare th espects in proper cond ignment conform to the identified in 40 CFR 26	ditional Info at the contents of this ition for transport acco e terms of the attached 62.27(a) (if I am a large	consignment a ording to applic I EPA Acknowle e quantity gene	AMD are fully a sable inte edgment erator) or	2414 and accurately des rnational and natio of Consent.	onal governm Il quantity ger	by the proper sl ental regulations nerator) is true.	ent ID: hipping name	9750-0 e, and are clas	3-0005 ssified, pack am the Prim	aged,			
V L	16. International Shipments	Import to			Export from U		Port of ent									
INT'L	Transporter signature (for expo						Date leavir	ng U.S.:								
TRANSPORTER	17. Transporter Acknowledgmen Transporter 1 Printed(Typed Na	me	-		Sign	alure	1		1		Mor		Year			
SPC	Transporter 2 Printed/Typed Na		· V16	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Siar	<u>M</u> nature	(Charl		as		Mor	1 Linh Day	(21 Year			
RAN	Transporter 2 Trincorrypourna	inc				aturo										
1	18. Discrepancy			an an teachar					000420-00000000000000000000000000000000	1079x262x10100000000000000000000000000000000						
	18a. Discrepancy Indication Spa	ace 🗌 Quan	tity	Туре	<u></u>	Ľ	Residue	Number:	Partial Re	jection		Full Rej	ection			
FACILITY	18b. Alternate Facility (or Gener	rator)	8	1040h		111			U.S. EPA ID	Number						
FAC	Facility's Phone:			71.0	160											
DESIGNATED	18c. Signature of Allernate Faci	lily (or Generator)	7	5 UC	$\frac{02}{5}$ nr					5923-00 A 314 A 44 A 46 A 46 A 46 A 46 A 46 A 46 A	Mc	onth Day	/ Year			
SIGN	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)															
	1. H13.	2_	2.	+132	3.		H13	2	4.	H	132					
	20. Designated Facility Owner of	or Operator: Certifica	lion of receipt of hazar	dous materials covere			pt as noted in Item	n 18a								
	Printed/Typed Name	but	Gurs		Sigr	nature	ant		ans		Mo	nth Day	$\frac{Y}{2}$			

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Ple	ase pr	int or type.					n Approved	. OMB No.	2050-0039
	UNI	FORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number KY 8890008982	22. Page 2	23. Mani	fest Tracking Nu		96951	48.J.JF	
	24.0	Senerator's Name Four Rivers Nuclear Partnership, LLC, on behalf of the U.S. Department of t 5511 Hobbs Road, Kevil, KY 42053	Energy						
	25.	Transporter Company Name Interstate Ventures, Inc.			U.S. EPA ID		TNROO	003467	3
	26. 1	Fransporter Company Name			U.S. EPA ID				
	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Conta No.	iners Type	29. Total Quantity	30. Unit Wt./Vol.	31. \	Waste Codes	
	RG		1	CM	3671	к	F001	F002	<u>U228</u>
		Solid Oxide, 133 MBq, Fissile Excepted							
							na ann an tha ann an t		1997 - San
GENERATOR -									
- GENE									
		7-6-2021 US Mail TS							******
		US Mail TS							5.5.4.8.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.

¥	32. St	ecial Handling Instructions and Additional Information Accumulation S ERG # 162 In the event of an RQ Release, call 1-800-424-8 EXCLUSIVE USE SHIPMENT, See Attachment for Additiona	802	2/29/20	lf undeliv Shipme				rator
		ansporter Acknowledgment of Receipt of Materials dryped Name Signature	chal	Da			Mon		Year 1 21
TRANSPORTER	and the local division of the local division	ansporter Acknowledgment of Receipt of Materials d/Typed Name Signature			/ .	in here an anna constant anna anna anna a	Mon	<u>~ ``</u>	Year
DESIGNATED FACILITY	35. Di	screpancy					1		
SIGNATEL	36. Ha	azardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and re	cycling systems)						
DES			ung inter sec. 5	174 A 5 & more box	part of the first source and	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S 4 4 4 4 4		

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

ς :

Additional Information Attachment, Page 3 of 3

Manifest Number: 019695148JJK

Shipment ID Number: 9750-03-0005

Shipment Date: 6/18/2021 RP 5/10/22

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	GILIZOZI Accumulation Start Date	Date To Storage	NET VOLUME (ft3)	Maximum Activity (MBq)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (Ib)	NET WtT (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

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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4	15161				0000	

PAD-ENR-0144-V1 12230(q-O) LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	019695148556
Profile No.:	9150-03	State Manifest No .:	NIA

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

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

REF #	3. US EPA HAZARDOUS	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK I	5. HOW MUST THE WASTE BE MANAGED?		
WASTE CODE(S)		DESCRIPTION	NONE	ENTER LETTER FROM BELOW	
1	F001	Spent halogenated solvents used in degreasing		А	
2	F002	Spent halogenated solvents		А	
3	U228	Trichloroethylene		А	
4		FO 04/06/2021			

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

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

RESTRICTED WASTE REQUIRES TREATMENT A. This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40. For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45." RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS B.1 "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment." **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." RESTRICTED WASTE SUBJECT TO A VARIANCE C. This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above. For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45." RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT D. "I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment." E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

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

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

Form A1 Page 1 of 2

Page 1 of 7

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

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

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

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

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

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

SUBCATEGORY REFERENCE

D001:

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

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

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

D002:

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

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

Form A1 Page 2 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name:	Four Rivers Nuclear Partnership	Manifest Doc. No. :	01969514855K

Profile No .:

9150-03

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. US EPA HAZARDOUS	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	5. HOW MUST THE WAST BE MANAGED? ENTER		
NCT #	WASTE CODE(S)	DESCRIPTION	NONE		LETTER FROM FORM A1, PAGE 1
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7					
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11				2	
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

FRANKLIN OVERBY Signature (Affiliate)

Digitally signed by FRANKLIN OVERBY (Affiliate) Date: 2021.04.07 11:31:38 -05'00'

Title Waste Engineer

Date 04/06/2021

CP3-WM-0437-F04 FR2

Form A2 Page 1 of 2

Page 3 of 7

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator	Name [.]
Ocherator	Name.

Profile No .:

Four Rivers Nuclear Partnership

9750-03

Manifest Doc. No. : State Manifest No.:

NIA

0196951485510

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

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

REF #	3. US EPA HAZARDOUS	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK	NE.	5. HOW MUST THE WASTE BE MANAGED? ENTER	
REF #	WASTE CODE(S)	DESCRIPTION	N	ONE	LETTER FROM FORM A1, PAGE 1
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84			[
65	[_		

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

FRANKLIN OVERBY Signature (Affiliate) Digitally signed by FRANKLIN OVERBY (Affiliate) Date: 2021.04.07 11:32:24 -05'00'

Title Waste Engineer

Date 04/06/2021

Form A2 Page 2 of 2

CP3-WM-0437-F04 FR2

Page 4 of 7

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

Generator Name:

Manifest Doc. No. :

0196951485316

Profile No.:

9750-03

Four Rivers Nuclear Partnership

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 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	4	0.059	3.4	2-Chloro-1,3-butadiene	4	0.057	0.28 ¹
Acenapthene		0.059	3.4	Chlorodibromomethane	1	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	1	19 ¹	23 ¹	p-Chloro-m-cresol	04/06/2021	0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.0621	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	1	0.044	5.7
Aniline	1	0.81	14	3-Chloropropylene	1/	0.036	30
Anthracene	 	0.059	3.4	Chrysene	× ×	0.059	3.4
Aramite		0.36	NA	o-Cresol	A	0.000	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol	A	0.77	5.6
beta-(BHC)	<i> </i>	0.00014	0.066	p-Cresol	A	0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate		0.0561	1.41
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.0561	1.41	o,p'-DDD	I	0.023	0.087
Bendiocarb		0.0561	1.41	p,p'-DDD	+	0.023	0.087
Benomyl		0.056 ¹	1.41	o,p'-DDE	<i> </i> -	0.023	0.087
Benzene		0.14	10	p,p'-DDE	<i> </i>	0.031	0.087
Benz(a)anthracene		0.059	3.4	0,p'-DDT		0.0039	0.087
Benzal chloride	FO	0.055 ¹	6.0 ¹	p,p'-DDT	<u>├</u> /	0.0039	0.087
Benzo(b)fluoranthene ³	04/06/2021	0.000	6.8	Dibenz(a,h)anthracene	<i> </i>	0.0055	8.2
Benzo(k)fluoranthene ³	0400/2021	0.11	6.8	Dibenz(a,e)pyrene	├ <i> </i>	0.061	NA
Benzo (g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane	├ ─── / ──	0.001	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromorethane/ Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane	<u>├</u> /	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	0.000	6.0
Butylate		0.0421	1.41	Dichlorodifluoromethane	0400/2021	0.23	7.2
Butyl benzyl phthalate		0.042	28	1.1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6- dinitrophenol/Dinoseb			2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl	 	0.066 0.006 ¹	0.141	1,1-Dichloroethylene	├ ── <i>│</i> ────	0.025	6.0
Carbaryi	 	0.006 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.025	30
Carbofuran	H	0.0061	0.141	2,4-Dichlorophenol		0.054	14
Carbofuran phenol	+	0.0061	1.4 ¹	2,4-Dichlorophenol		0.044	14
· · · · · · · · · · · · · · · · · · ·	⊢ −−−−−−		4.8 mg/l	2.6-Dichlorophenoxyacetic			
Carbon disulfide		3.8	TCLP	acid/2,4-D	_/	0.72	10
Carbon tetrachloride	1	0.057	6.0	1,2-Dichloropropane	/	0.85	18
Carbosulfan		0.028 ¹	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
p-Chloroaniline		0.46	16	Dieldrin]	0.017	0.13
Chlorobenzene		0.057	6.0	Diethyl phthalate	▶	0.20	28

Form B1

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CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate	4	0.10	NA	p-Dimethylaminoazobenzene	4	0.131	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	<i> </i>	0.32	140	Metolcarb		0.056 ¹	1.4 ¹
2,6-Dinitrotoluene		0.55	28	Mexacarbate	/	0.0561	1.41
Di-n-octyl phthalate		0.017	28	Molinate		0.0421	1.4 ¹
Di-n-propylnitrosamine 1,4-Dioxane		0.40	14	Naphthalene	/	0.059	5.6
Diphenylamine ³		0.92	170 13 ¹	2-Naphthylamine		0.52	NA
Diphenylnitrosamine ³	+	0.92	13 ¹	o-Nitroaniline	FO	0.271	14 ¹
1,2-Diphenylhydrazine	<u>├</u>	0.92		p-Nitroaniline	04/06/2021	0.028	28
Disulfoton	<u> </u>	0.087	NA	Nitrobenzene	<i> </i>	0.068	14
Distiliocarbamates (total)	<u>+−−−−</u> −−	0.017	6.2 28 ¹	5-Nitro-o-toluidine	<i> </i>	0.32	28
Endosulfan l	+	0.028	0.066	o-Nitrophenol p-Nitrophenol	<i> </i>	0.0281	13 ¹
Endosulfan I	<u> </u>	0.023	0.066	p-Nitrophenol N-Nitrosodiethylamine	/	0.12	29
Endosulfan sulfate	<u>├</u>	0.029	0.13		<i> </i>	0.40	28
Endrin	<u>├</u> ─── │ ·	0.029	0.13	N-Nitrosodimethylamine	├ <i> </i>	0.40	2.31
Endrin aldehyde	<u>├───</u>	0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17
EPTC	┼───┤───	0.025 0.042 ¹	1.4 ¹	N-Nitrosomethylethylamine N-Nitrosomorpholine	⊢/	0.40	2.3
Ethyl acetate	+	0.042		N-Nitrosomorpholine	-/	0.40	2.3
Ethyl benzene		0.34	33 10	N-Nitrosopiperidine		0.013	35
Ethyl cyanide/Propanenitrile				N-Nitrosopyrrolidine	/	0.013	35
Ethyl ether	<u>├───</u>	0.24	360 160	Oxamyl	l	0.056 ¹	0.281
Bis(2-Ethylhexyl)phthalate		0.12	28	Parathion Total PCBs (sum of all PCB	A	0.014	4.6
Ethyl methacrylate		0.14	160	isomers or all Aroclors) Pebulate	A	0.10	1.41
Ethylene oxide		0.12	NA	Pentachlorobenzene		0.0551	101
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	1.41	Pentachloronitrobenzene	I	0.055	4.8
Heptachlor		0.0012	0.066	Pentachlorophenol	<i> </i>	0.089	7.4
Heptachlor epoxide		0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene	<u>├ </u>	0.055	5.6	Phenol		0.039	6.2
Hexachlorocyclopentadiene		0.057	2.4	Phorate	<i>I</i>	0.039	4.6
HxCDDs (All Hexachrorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid	FO	0.055 ¹	28 ¹
HxCDFs (All HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride	04/06/2021	0.055	28 ¹
Hexachloroethane	1	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	1	0.056 ¹	1.4 ¹
lodomethane		0.19	65	Pronamide		0.093	1.5
Isobutyl alcohol		5.6	170	Propham		0.056 ¹	1.4 ¹
Isodrin		0.021	0.066	Propoxur		0.056 ¹	1.4 ¹
Isosafrole		0.081	2.6	Prosulfocarb		0.0421	1.4 ¹
Kepone		0.0011	0.13	Pyrene		0.042	8.2
Methacrylonitrile		0.24	84	Pyridine		0.007	16
Methanol	1	5.6	0.75 mg/l ¹	Safrole		0.014	22
Methapyrilene		0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb	1	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)	1	0.000063	0.001
3-Methylcholanthrene	/	0.0055	15	1,1,1,2-Tetrachloroethane	1	0.057	6.0
4,4'-Methylene bis(2-	k .				ļ		
chloroaniline)	P	0.50	30	1,1,2,2-Tetrachloroethane		0.057	6.0

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CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene	4	0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony	4	1.9	2.1 mg/l TCLP
Thiodicarb	1	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 TCLP⁴
Triallate		0.0421	1.4 ¹	Beryllium		0.82	0.014 mg/l
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	NA⁴
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	0100/2021	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
Triethylamine		0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l
Tris-(2,3- Dibromopropyl)phosphate		0.11	0.10 ¹	Nickel		3.98	11 mg/l TCLP⁴
Vernolate	1	0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride	1	0.27	6.0	Selenium		0.82	5.7 mg/l
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
2				Sulfide		14	NA ²
	FO			Thallium		1.4	0.078 mg/l TCLP ¹
	04/06/2021			Thallium		1.4	0.20 mg/l
				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.

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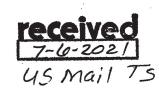
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WASTE MANIFEST	enerator ID Number	KY 88900089		2	3. Emerg	jency Respon	se Phone)-4/1,1 -(36);	4. Manifest	Tracking N		3 J	JK
5. Generator's Name and Mailing Add	difficiear Pa	artnership, LLC,	(FRNF	P) on	FERRIT	r's-Site Addres	ss (if different ti Vers Nucle	an mailing addre	hip, LLC			
		artment of Energ	9y				ous Diffus					
5511 Hobbs Generator's Phone:	Road, Kev	il, KY 42053			55111	Hobbs Ro	1, Kevil, K	Y 42053				
6. Transporter 1 Company Name					I			U.S. EPA ID	Number			
Interstate Ve	entures, Inc	D								TNROO	003487	8
7. Transporter 2 Company Name								U.S. EPA ID	Number			2
8. Designated Facility Name and Site	Address							U.S. EPA ID	Number			
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9a. 9b. U.S. DOT Description (inc HM and Packing Group (if any))					╞	10. Cont No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.	13. V	Vaste Code	S
		erial, low specific a										
RQ (PCB), Np-23		u-239, TC-99, Th-3	230, U-:	234, Solid	∜Oxid∉,	. 1	DM	1	к			
RQ (PCB), Np-23 0.7 MBq, Fissi 2. UN 3321, Rad											'	
j 2. UN 3321, Rad RQ (PCB), Np-237		erial, low specific a u-239, To-99, U-23					_					
MBq. Fissile E		0-238, 10-88, 0-23	54, 5010	aroxide,	10.1	1	DM	21	K			
3		erial, low specific a	entin dir - 71									
		30, U-234, Solid/C										
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4. Fissile Excepte												
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		tion TID: 034964	6	x [*]		Pe	09237	7	PCB	Start Da	te: 07	123120
4. Fissile Excepte		^{jon} TID: 034964 ent of an RQ Rel		call 1-80)0-424-		09237			Start Da		//23/20 ator
14. Special Handling Jost ucing god	In the eve		lease,			-8802		/ / If undelive Shipm	erable,	return to		ator
A Fissile Excepte 4 Fissile Excepte 4 Fissile Excepte 4 Fissile Excepte 14. Special Handling Instructions and ERG # 162 Exclusive Us Software	In the even se Shipmen CERTIFICATION: 1 and are in all respent nts of this consignment	ent of an RQ Rel t, See PCB Atta hereby declare that the con cts in proper condition for tra- ent conform to the terms of	lease, achmer ansport acc the attache	nt for Add s consignment cording to appli ed EPA Acknow	ditiona are fully an icable interr vledgment o	-8802 I Info Ind accurately of national and ma of Consent.	described abov ational governm	If undelive Shipm e by the proper s nental regulations	erable, ent ID:	return to 7340 e, and are class	gener -03-00	ator 14 aged,
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Manifest Number: 019695153 JJK

Shipment ID Number: 7340-08-0014

Shipment Date: 6/21/2021

UHWM Section	RFD	Container / WASTE ID	Barcode) Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (Ib)	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



Plea	ase prir	nt or type.										Approved.	OMB No. 2	2050-0039
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	5. Ger	nepator's Name and Wallin	gedresartners	zhip, LLÇ, (F	RNP)		Generat	RISPAGES	if different the	en matting addres	ss) .			
		on behalf of FR	NP				P	aducah G	aseous Di	ffusion Plar	nt,			
		5511 Hobbs Ro	ad, Kevil, KY	42053			5	511 Hobbs	s Rd, Kevi	I, KY 4205	3			
		rator's Phone: nsporter 1 Company Nam	e				L			U.S. EPA ID I	Number	•		
		Specialty Tra	nsport Inc.				×			1.		0001124	17	
	7. Tra	nsporter 2 Company Nam	e			`				U.S. EPA ID I	Number			
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	8. Des	signated Facility Name an Energy Solution	d Site Address Ins Clive Di	sposal Site	-Bulk Waste	Facility				U.S. EPA ID I	Number			
		US I-80 Exit 4	19, Clive, U	T 84029		2			. '					
	Facilit	y's Phone: 1-435	-884-0155							1	UTD98	3259888	38	
	9a.	9b. U.S. DOT Description	on (including Proper	Shipping Name, H	azard Class, ID Numbe	er, 5		10. Conta	iners	11. Total	12. Unit	. 40	Waste Oada	
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ENE	RQ	2. UN 2912, Rad	oactive materi	al. low specifi	c activity (LSA-I)	.7. (PCB).	Pu-						,	
0		238, Pu-239, T)xlde, 1917 MBq			3	СМ	1826	к			
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	14. Sp	Truck: 396	s and Additional Info		Mail	15 Accumu	ation S	tart Date:	N/A	-	PCB St	art Date	01/	12/21
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	E	Exporter, I certify that the c	contents of this cons	ignment conform to	the terms of the attach	ned EPA Acknow	ledgment	of Consent.	-	-	in oxport on	phone and t		un y
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È	18b. A	Iternate Facility (or Gener	ator)		· _ ·			aniest iveletene	e Number.	U.S. EPA ID N	Number			
FACILITY														
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ATE	100, 0	,	ity (or Generator)										, inter inte	
DESIGNATED	19. Ha	azardous Waste Report Ma	anagement Method	Codes (i.e., codes	for hazardous waste tre	eatment, disposa	al, and rec	vcling systems)						
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	00.5	<u>H132</u>	- On eventeur: O = -117		+152			A second sector to the						
		esignated Facility Owner o d/Typed Name	r Operator: Certifica	uon or receipt of ha	azardous materials cov		ifest excep Inature	as noted in Ite	m 18a			Мо	nth Day	Year
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EPA	Form	8700-22 (Rev. 12-17)	Previous editions	s are obsolete.	· ,			DES	SIGNATED) FACILITY	TO EPA	's e-MAN	VIFEST S	SYSTEM

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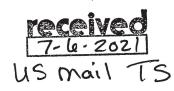
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Manifest Number: 019695154 JJK

Shipment ID Number: 7340-08-0015

Shipment Date: 6/18/2021

UHV Sect		RFD	Container / WASTE ID	Barcode	Description ,	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET Wt (Ib)	Net Wt (Kg)	Maximum Activity MBq
9b	.1	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



se r	print or type.					Form	Approved.	OMB No.	2050-0039
UN	IIFORM HAZARDOUS 1. Generator ID Numberry 8890008982	2. Page 1 of	3. Emergenes Response	19 -1633 3	4. Manifest	Tracking Nu 969	mber		
5. (SenerFromNeterPhilderPartnership, LLC, (FRNP)	 ,	General a police Addre	Senar of			-		
	on behalf of FRNP				Diffusion Pla				ł
	5511 Hobbs Road, Kevil, KY 42053				vil, KY 420				ſ
Ge	nerator's Phone:				U.S. EPA ID	Number			
0.1	Fransporter 1 Company Name Specialty Transport Inc.					NROOOC	11247		
7.1	Fransporter 2 Company Name				U.S. EPA ID	Number			
B. [Designed Facility Name and Site Address Energy Solutions Clive Disposal Site-Bulk Waste	Facility			U.S. EPA ID	Number			
	US I-80 Exit 49, Clive, UT 84029								
	1-435-884-0155					TD9825	00000		
	citity's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Numbe		10. Con	tainam	T-4	1 1			
9a H1		n,	No.	Туре	11. Total Quantity	12. Unlt Wt./Vol.	13,	Waste Cod	ęs –
F	Q1. UN 3077, Environmentally hazardous substance, solid, n.o.	.s. (PCB), 9				1 1			
Ĺ	PG-III		1	CM	3783	ĸ			<u> </u>
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14.	Special Handling Instructions and Additional Information	Accumulatio	Don Start Date: 1	NA	P	CB Start	Date	95/42	
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Manifest Number: 019695194 JJK

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Shipment ID Number: 7340-08-0016

Shipment Date: //29/2021	Shipment Date:	7/29/2021
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	UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	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	1			550	15840	7185	8340	3783

se print or type.						Form	Approved.	OMB No.	2050-0039
	r ID Number	2. Page 1 of 3. E	mergency Response		4. Manifest	Tracking Nur	nber		
WASTE MANIFEST	KY 8890008982	2		141-6333		.969	521	<u>b J</u>	JK
5. Generator's Name and Mailing Address		Gen	erator's Site Address	(if different than	n mailing addre	ss)			
	tership, LLC, (FRNP) on behalf of F	RNP	FRNP on						
5511 Hobbs Road, Kev		,	Paducah (
Generator's Phone: 270-4 6. Transporter 1 Company Name	41-5025	<u> </u>	5511 Hob	os Ra, Nev	U.S. EPA ID				
Tri-State Motor Tra	nsit					MOD09	503899	8	
7. Transporter 2 Company Name					U.S. EPA ID	Number			
·									
8. Designated Facility Name and Site Addre	^{ss} ve Disposal Site- Waste Tre	atmant			U.S. EPA ID	Number			
Facility	te bispuser one- truste inc	Gentleric							
1,425,094.(1455						598898	ł	
Facility's Phone:					L	<u>т т</u>			
9a. 9b. U.S. DOT Description (including HM and Packing Group (if any))	Proper Shipping Name, Hazard Class, ID Number	er,	10. Conta No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.1	Waste Code	es
1.				тура	quantury	116/100	T		
UN3077, Environme	ntally hazardous substance, solid	t, n.o.s.,	1	DM	39	ĸ			<u> </u>
RO (PCB), 9, PG H			1	DIVI	28				
2.	·····								
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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	121500	121998-05	PAD20C45076	Vent Duct Trough	11/05/20	7.4	142	64	86	39
	121998	Totals	1			7.40	142	64	86	38

							,	
e print or type. 9756 - 64-0 UNIFORM HAZARDOUS 1. Generator ID Number KY 8890008982 2 WASTE MANIFEST	0010 1 of 3. Emer	Jency Response	ZZ57	4. Manifest	Fracking Nur	Approved. OME		
		1-270-4	41-6333	01		<u>5234</u>	JJK	
. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on	Generate FRNF	r's Site Address	if different that of the U.S	n mailing addres 5. Departm	^{s)} ent of En	ergy		
behalf of the U.S. Department of Energy		ah Gaseou					•	
Senerator's Phone: Phon	0011	Hobbs Rd,	Nevil, NY	42003 U.S. EPAID N	lumbor			
Transporter 1 Company Name Tri-State Motor Transit						10009503	8998	
Transporter 2 Company Name				U.S. EPA ID N				
Designated Facility Name and Site Address				U.S. EPAID N	lumher			_
EnergySolutions Clive Disposal Site-Bulk Waste Fa	cility						•	
US I-80 Exit 49, Clive, UT 84029					L	JTD98259	8898	
acility's Phone: 1-435-884-0155		10. Contai						
Sa. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Wash	e Codés	
1.		· · · · · · · · · · · · · · · · · · ·						
UN 3082, Environmentally hazardous substances, li RQ n.o.s. (PCB), 9, PG III	iquid,	1	рм	203	К			
2.			-27.41	200		· · ·		
3.	•	<u>.</u>						
4.								
14. Special Handling Instructions and Additional Information Truck:225011 Van: 194016 TID: 0349605		PRE	9258	3	PCB Sta	et Date:	03/15/2	24
ERG #171 In the event of an RQ Release, call 1-	800-424	-8802				return to		· · ·
Evolutiva Lica Chinnant, Cas DCD Attackment for	معاطاته	nt inže		Chinata	mt i De	0780 04 0	- 040	
 GENERATORS/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consigning marked and labeled/placarded, and are in all respects in proper condition for transport according to 	applicable int	emational and na	ional governm	ental regulations	. If export shi	pment and I am t	he Primary	`
Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAct I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity	knowledgmer ty generator) c	t of Consent. r (b) (if i am a sm	all quantity ge	nerator) is true.				
Generator's/Offeror's Printed/Typed Name	Signature	- 01 I	tion	/		Month 109		Year 21
	<u>B</u>	Port of e	unity			101	100 0	201
Transporter signature (for exports only):	from U.S.	Port or e Date leav						
7. Transporter Acknowledgment of Receipt of Materials	Signature					Month	Day	Year
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Transporter 2 Printed/Typed Name	Signature					Month	Day	Year
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18. Discrepancy Indication Space		Residue		Partial R	-		Full Rejection	
18a. Discrepancy indication Space Quantity Type		Residue		L_1 Pantat R	ejecuan	L	Full Rejecta	111
		anifest Referen	e Number:	Ū,S. EPA ID	Number			
18b. Alternate Facility (or Generator)	A Come of	4		0,0. 21710	(an iber			
Facility's Phone: 10-1-2	021				<u> </u>			
18c. Signature of Alternate Facility (or Generator)	000	;1		1.01		· Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, di	lisposal, and r	cycling systems)				.I	
	3.			4.			•	
<u>+ H132</u>	<u> </u>		194					
20, Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the Printed/Typed Name	e manifest exe Signature	ept as noted in it	B01 1118			Month	Day	Year
Albert ms		unt	In	3		10	11	21
Form 8700-22 (Rev. 12-17) Previous editions are obsolete.		DE	SIGNATE	D FACILIT	Y TO EP	A's e-MANII	EST SY	STEN

Manifest Number: 019695234JJK

Shipment ID Number: 9750-04-0010 Shipment Date: 9/28/2021

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				Shiphene Data	PCB Date to	NETVOLUME	GROSS WT	Gross Wt	NETWT	NET Wt (Kg)
UHWM		Container /	Barcoda	Description	Storage	(ft3)	(lb)	(Kg)	(0)	
Section	RFD	WASTE ID		PCB VENTILATION DUCT LIQUIDS FROM	03/15/21	6.7	503	228	447	203
9b.1	122252	122252-02	PAD21C46179	VENTILATION TROUGHS IN PROCESS BUILDINGS		6.7	503	228	447	203
		Totals	1							

C. C. C. Samerico S. C. C. Par	-		н н н						
se print or type.						Form	Approved.	OMB No. 2	050-0039
UNIFORM HAZARDOUS 1. Generator ID Number	2. Page 1 c	of 3. Emerge			4. Manifest	Tracking Nu	mber		
WASTE MANIFEST KY 8890008		1		41-6333			525	12 Ju	IK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC	(FRNP) on	FRNP	Sile Address on Denalf	of the U	an mailing addres 5. Departm	s) ent of Er	hergy		
behalf of the U.S. Department of Ene			h Gaseou				0,		
Generator's Phone 11 Hobbs Road, Kevil, KY 42053	- 05	5511 H	obbs Rd.	Kevil, KY	42053				
6. Transporter 1 Company Name	······	<u> </u>			U.S. EPA ID N	lumber			
CAST Transportation					1 .		ະດອກຄ	nnesso	2
7. Transporter 2 Company Name					U.S. EPA ID N	lumber			
8. Designated Facility Name and Site Address		·.			U.S. EPA ID N	lumber			2
EnergySolutions Clive Disposal Site-E	Bulk Waste Fac	ility							
US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1_425_994_0155					1	(JTD982	2598898	}
Pacility's Phone: <u>1_435_884_0155</u> 9a. 9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Clas	s, ID Number,		10. Contai	ners	11. Total	12. Unit			
HM and Packing Group (if any))	-,,	-	No.	Туре	Quantity	Wt./Val.	13.	Waste Code:	
1. UN 3077, Environmentally hazardous	substances so	lid							
UN 3077, Environmentally hazardous n.o.s., (PCB), 9, PG III 2.			2	см	457 +	ĸ			
				SIN1		IV.			
2.		ł			15-14-0	4			
3.									
-									
4.									
4.									
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	***************************************					PCB Sta	art Date:	06/0	4/21
14. Special Handling Instructions and Additional Information	Release, call 1-8	300-424-	B802						
14. Special Hendling Instructions and Additional Information Truck:1456 Trailer. OTR 95		300-424- 2<i>69</i>2			lf undeliv Shipmer	erable,	return	to gene	
14. Special Hondling Instructions and Additional Information Truck: 1456 Trailer: OTR 95 ERG # 171 In the event of an RQ R See PCB Attachment for Additional Ir 5. CENERATOR'S/OFFEROR'S CENTIFICATION: Thereby declare that the	nfo contents of this consignme	nt are fully and	6 S accurately de	scribed above	If undeliv Shipmer	erable, nt ID:	return 7340-0	to gene B-0017 ssified, packs	rator
14. Special Hendling Instructions and Additional Information Truck: 1456 Trailer: OTR 95 ERG # 171 In the event of an RQ R See PCB Attachment for Additional In marked and labeled/placarded, and are in all respects in proper condition Exporter, Lordify that the contents of this consignment conform to the terms	Tio contents of this consignme or transport according to ap of the attached EPAAckno	P LOPI2 nt are fully and plicable interna owledgment of	65 accurately de ational and nati Consent.	onal governm	If undeliv Shipmen by the proper sh ental regulations.	erable, nt ID:	return 7340-0	to gene B-0017 ssified, packs	rator
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Manifest Number: 019695252JJK

Shipment ID Number: 7340-08-0017

Shipment Date: 10/14/2021

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (Ib)	NET Wt (Kg)
9b.1	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

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.

Ple	ase	print or type.								Form	Approved.	OMB No. 2	050-0039
1	T		1. Generator ID Number KY 8	390003982	2. Page 1 of 2	3. Emerg	jency Response 1-270-4	Phone 41-633	3 4. Manifest	Tracking Nur 969	^{ber} 525	7 JJ	IK
	5.	Generator's Name and Atalin Four Rive	Addess Brs Nuclear Partnersh	ip, LLC, (FRNF	p) on	FRAVE	'bsite addition	State U	s. Hipatir				
		behalf of	the U.S. Department	of Energy		Paduc	ah Gaseo	us Diffusi	on Plant,				
	G	6511 Hot	obs Road, Kevil, KY 4	2053	1	55111	lobbs Rd,	Kevil, K	42053				
	6.	Transporter 1 Company Nam	18						U.S. EPA ID		0000		
	7	Transporter 2 Company Nam	Motor Transit <u>CO</u>						U.S. EPAID I		IOD080	5038998	3
									Ĩ				
	8	Designated Facility Name an EnergySt	d Sile Address Diutions Clive Disposa	l Site-Bulk Wa	ste Facil	ity			U.S. EPA ID	Number			
11			Exit 49, Clive, UT 840							L		596896	3
	F	acility's Phone: 1-	-435-884-0155										
		ea. 9b. U.S. DOT Description	ion (Including Proper Shipping Name, anvi)	Hazard Class, ID Number,	i		10. Conta		11. Total Quantity	12. Unit WL/Vol.	13.1	Nasle Codes	
			, Radioactive materia	, low specific a	activity (L	SA-I	No.	Туре	Guanuty	1 11/17101.			
L I		7, (PCB)	, Np-237, Pu-238, Pu	-239, To-99, Th	-230 ,	Ì	3	ом	97	ĸŀ			
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		3.											
	Γ	4.											
	1	4. Special Handling Instructio	5086 WIR! W02299 TIC	: 0349425					J	PCB Sta	rt Date	01/1	9/24
	8		62 In the event of a						If undeliv				
			e Use Shipment, See				1		Shipme				
	1	 GENERATOR'S/OFFERO marked and labeled/place 	OR'S CERTIFICATION: I hereby deci arded, and are in all respects in prope	are that the contents of the condition for transport ac	is consignmen cording to app	t are fully a licable inte	ind accurately d mational and na	escribed abov tional governi	e by the proper s nental regulations	hipping name s. If export shi	, and are clas pment and I	ssified, pack am the Prim	aged, ary
		Exporter, I certify that the I certify that the waste min	contents of this consignment conform nimization statement identified in 40 C	to the terms of the attach FR 262.27(a) (if I am a la	ed EPA Ackno rge quantity ge	wledgment nerator) or	of Consent. (b) (if I am a sm	ia'l quantity gi	enerator) is true.				
	C	Senerator's/Offeror's Printed/T	yped Name		S	gnature R L c	AD CAA	ALL A C	in Beha	lfof	Moi 1 L Z		Year
1	1	6. International Shipments		F		Dro	<u>u uu</u>	M_	FKNP		(1 00	Ial
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Qu		7. Transporter Acknowledgme ransporter 1 Printed/Typed Na				analura					Mor	nth Day	Year
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ANC	2 1	ransporter 2 Printed/Typed N			s	ignature					Mo	nth Day	Year
E		8. Discrepancy											
		8a. Discrepancy Indication Sp	pace Quantity	Туре		Γ	Residue		Partial R	election		Full Rel	ection
			Carlo Goundy										
2	- 1	8b. Alternate Facility (or Gene	erator)			M	anifest Referen	ce Number	U.S. EPA ID	Number			
					MO	CC							
U U	C I	Facility's Phone: 18c. Signature of Alternate Fac	cility (or Generator)		- Hand Tiller	M	Girt	22-			M	onth Day	y Year
MATC		,			Contraction of the owner	- A	mit mit marine						
DECIONATED			Management Method Codes (i.e., cod	es for hazardous waste be		sal, and re	cycling systems)	4.				
Ĩ		H132	2.		3.				* .				
		20. Designated Facility Owner	or Operator: Certification of receipt o	hazardous materials cov			pt as noted in It	em 18a					
		Printed/Typed Name Albu	t Frank		8	lignature Car	A	P			14 1	onth Day	Year
E	PA	and the second sec	7) Previous editions are obsolete			U		SIGNATE	D FACILITY	(TO EPA	's e-MA	NIFEST	SYSTEN

Manifest Number: 019695257JJK

Shipment ID Number: 7340-06-0003

Shipment Date: 10/28/2021

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME - (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (Ib)	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	8.4
		Totals	3			21.9	381	173	213	97	19.1

Plea	ase print or type.						Form	Approved, Ol	AB No. 205	0-0039
1	UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST KY 8890008932	2. Page 1 of 2		gency Response 1–270–441	-6333		1 macking Nu 969			
	5. Generator's Name and Mailing Address	_		r's Site Address (s)			
	Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNF 5511 Hobbs Road, Kevil, KY 42053	5		NP on beh Iducah Gas						
	Generator's Phone: 270-441-5025		55	11 Hobbs F	Rd, Kevil,					
	6. Transporter 1 Company Name					U.S. EPA ID N				
	Tri-State Motor Transit							09503899	18	
	7. Transporter 2 Company Name					U.S. EPAID N	umber			
	8. Deslanatad Facility Name and Sila Address Energy Solutions Clive Disposal Site- Bulk Waste Fa					U.S. EPA ID N	lumber			
		achity								
	US I-80 Exit 49, Clive, UT 84029							2000000	-	
	1-435-884-0155 Facility's Phone:							38259889	<u>d</u>	
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,			10. Contain	iers	11. Total	12. Unit	13. Wa	ste Codes	
	HM and Packing Group (if any)) (UN2912, Radioactive material, low specific activity (LSA-I	, , , , , , , , , , , , , , , , , , , 		No.	Туре	Quantity	WI.Nol.]
і К	RQ Am-241, Pu-238, Pu-239, To-99, Th-230, Liquid/Oxide, 1			4	DM	782	к			
AI	Fisale Excepted	.70 MD4	'	4	LAN	102				
GENERATOR	2.									
B										
11										
	3.									
	4. Four Rivers Nuclear Partnership, U.C (FRINP) and the U.S. Department of Energy (DOE FRINP is responsible for performing all Resource Conservation and Recovery ACK (RCR: EM0004925, Including, but not limited to, churacteriding wasto, menifesting wasta to with RCIA requirements. Transportation hereunder is for DOE and the actual total in	A) generator a off-site facili	ectivities o ties, useka	n behalf of both F sine and labeling	RNP and DOE waste for tran	for all activities to sport, and storin	and or the so	ope of FRNP's Co ging waste, in ac	ntract OE- prdanca	
	14. Special Handling Instructions and Additional Information 114. Unck: 210080 Trailer 70235 TID: 0349425				L		L	L	I	
				Start Date:	N/A			Start Date:	Ŭ5/1	
	ERG # 182 In the event of an RQ Release, call 1-8	100-424-	-8802			if unde	eliverat	ole, returr	to gen	erato
	See PCB Attachment for Additional Info		P	mo 24:	57	Shipm	nent ID	: 9750-00	3-0022	
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this marked and labeled/placaded, and are in all respects in proper condition for transport accord Exporter, I carbify that the contents of this consignment conform to the terms of the attached I certify that the vaste minimization statement identified in 40 CFR 262.27(a) (if I am a large	xiding to appli EPA Acknow	icable inte dedgment	mational and national of Consent.	onal governme	ental regulations.	ipping name If export sh	ipment and I am	the Primary	
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_				Date leave	ng 0.8.:					
TRANSPORTER	Transporter 1 Printed/Typed Name	Sig	nature					Month	Day	Year
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ANS	Transporter 2 Printed/Typed Name	Sig	inature					Month	Day	Year
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1	18. Discrepancy									
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Z	18b. Alternate Facility (or Generator)	· · · · ·	Mi	anifest Reference	NUMDER	U.S. EPA ID N	lumber	/		
ACILITY		223	182							
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旧	18c. Signature of Allernate Facility (or Generator)	L_L	K	www.coming				Month	Day	Year
ANS		1								
DESIGNATED	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treat	ment, disposi	al, and rec	yoling systems)						
a	^{1.} H137	3.				4.				1
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covere	d by the press	Heet over	ot as acted in Her	185					
	20. Designated Pacing Owner of Operator: Certification of receipt of nazardous materials covere Printed/Typed Name		gnature	n as noted in iten	/ 10d			Month	Day	Year
11	Allert Fins			and l	mo			14	111	21
EP	A Form 8700-22 (Rev. 12-17) Previous editions are obsolete.					FACILITY	TOEDA	's e-MANIF	EST SV	

Manifest Number: 019695261JJK

Shipment ID Number:	9750-09-0022

Shipment Date: 10/28/2021

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (Ib)	Net Wt (Kg)	Maximum Activity (MBq)
9b.1	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

Diag	se print (or type									Form A	Approved. Of	MB No. 2050-	-0039
1 ea	UNIFO	RM HAZARDOUS TE MANIFEST	1. Generator ID Nun	KY 88800		2. Page 1 of 2		ency Response D-441-83		01	Tracking Num	nbor	9 JJK	
		5511 Hobbs	ng Address Nuclear Par Road, Kevil	tnership, LLC , KY 42053	; (FRNP)		Padu	çs Site Address cah Gasec Hobbs Rd	ous Diffus		:53)			
r	6. Trans	porter 1 Company Nar CAST Trans porter 2 Company Nar	sportation							U.S. EPAID U.S. EPAID	CC	00000	15389	_
	8. Desig	US 1-80 Exi	t 49, Clive, L		Treatment	Facility				U.S. EPAID	Number			
	Facility's	Phone:	35-884-0155							1	TT	D98259	19888	
		9b. U.S. DOT Descrip and Packing Group (if		Shipping Name, Hazaro	I Class, ID Numbe	er,	-	10. Conta No.	liners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Wa	aste Codes	
GENERATOR	۲ ۲ Ω		238, Pu-239, T	rial, low specific o-99, Th-230, L				1	рм	172	к			
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	14. Spe) Van: 81A In the eve	TID: 034 nt of an RQ F ; See Attach	Release, ca	all 1-800-	424-88	art Date: 1 302	N/A	If undeliv	PCB Start verable, r nt ID: 97	return to		
	mi Ex	ENERATOR'S/OFFER arked and labeled/plac porter, I certify that the	OR'S CERTIFICATIO	N: I hereby declare the espects in proper condi- ignment conform to the identified in 40 CFR 26	at the contents of I tion for transport a terms of the atlac	this consignmen according to app shed EPA Ackno	t are fully a licable inte wledgment	mational and na of Consent.	ational governr	e by the proper a nental regulation	shloping name.	and are classi	fied, packaged,	
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D FACILITY	Facility	ernate Facility (or Ger 's Phone:				DE		7 202	21	U.S. EPA ID) Number	Mont	th Day	Year
DESIGNATED	18c. Si 19. Haz	gnature of Alternate Fa zardous Waste Report	10000	Codes (i.e., codes for)	nazardous waste (BY:	sal, and rea	cycling systems)		R. 0	Mont	th Day	rear
	-	H132	r or Operator: Certific	2. ation of receipt of hazar	dous materials co	3. wered by the ma	nifest exce	pt as noted in It	tem 18a	4.	A	12		
F	Printed	Albert B700-22 (Rev. 12-1	Even	\$			ilgnature Ox	mt	En	D FACILIT	Υ ΤΟ ΕΡΑ	S e-MAN	k 171	Year ZI

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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 (Ib)	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

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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UNIFORM	HAZARDOUS	1. Generator ID Nu		008982		2. Page 1 of 2		jency Respons 70–441–6		4. Manife	st Trackir		mber	1 7		
	s Name and Mailing	Address				£		r's Site Address				23	53	11	J	<u>IK</u>
Four 5511	Rivers Nuclea	ir Partnership d, Kevil, KY	42053	IP) on beh	alf of FRNI	•	FRN Pade	IP on beha ucah Gase	alf of the Yous Diffu	FRNP Ision Plant	, t					
Generator's P	Phone: r 1 Company Name	270-441-50	125				5511	Hobbs R	d, Kevil,							-
	State Moto		D .							U.S. EPA I			noon	20		
. Transporter	r 2 Company Name							-		U.S. EPA II			00000	50		
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. Designated	LEacility Name and S, Pederal	Site Address)F							U.S. EPA I	D Number					
9998 acility's Phor	8 West Sta ne: 1-432	te Highway 2-535-8500		drews, T	X 79714					Ĩ		880)8846	4		
í	J.S. DOT Descriptio	n (including Proper	Shipping Name	, Hazard Class	, ID Number.			10. Conta	iners	11. Total	12.1	init				
HM and F	Packing Group (if a	iy))						No.	Туре	Quantity	Wt.A		1	3. Wast	e Codes	;
	N 3077, Envi CB), 9, PG I		hazardous	substanc	e, solid, n.	0.5.,		8	BA	3156		1	O	UIS	397	
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PCB and Additional Information Attachment, Page 2 of 2
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Manifest Number: 019695317JJK

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

Shipment Date: 12/14/2021

				Shiphent Date	5. [Z/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	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	8			640	7302	3312	6957	3156

se print or type. UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number KY 8890	0008982	2. Page 1 or		y Response 70-441-		4. Manifest	Sing N	953:	18.	JK
5. Generator's Name and Mailin	g Address		_	Generator's S	ite Address	if different that	in mailing addres		00.		UIX
Four Rivers Mucles	- ir Partnership, LLC , (FRNI	P) on behalf of FR	NP	FRNP	on hehe	If of the F	PMP				
	d, Kevil, KY 42053	, , on ochan of the					sion Plant				
Generator's Phone:	270-441-5025						(Y 42053				
6. Transporter 1 Company Nam							U.S. EPA ID N	lumber			
Tri-State Motor	Transit Co.							MOD	095038	998	
7. Transporter 2 Company Nam	e						U.S. EPA ID N	lumber			
	12-1521										
8. Designated Facility Name and	Site Address						U.S. EPA ID N	lumber			
	te Highway 178, And	www. TV 707	4.8								
	2-535-8500	116449, 17 181	1.4				2		880884	IR/	
Facility's Phone:	-030-6000							1/16/0		-04	_
	on (including Proper Shipping Name	, Hazard Class, ID Numb	ber,		10. Contair	iers	11. Total	12. Unit	13	. Waste Co	des
HM and Packing Group (if a	.ny))				No.	Туре	Quantity	Wt./Vol.			
^{1.} UN 3077, Envi	ronmentally hazardous	substance, solid	, n.o.s., (PC	:B),					OUTS	3971	
RQ 9, PG III, WP-1					5	BA	2878	K	-	1	-
											_
2.											
										1	
3.											
	ship, LLC (FRNP) and the U.S. Depart	DOEL and	a en generatore pu	unsuant to a Co-	Senerator as	reement date	d September 13,	 2017. Under	l r this agreem	ent, —	
Printer is responsible for per-											
			portation charges		eimbursed b	y the Governm	nent pursuant to	Contract DI	E-EM0004895		
	not limited to, characterizing waste, ransportation hereunder is for DOE a		portation charges	paid are to be i	ennuusea s		nent pursuant to	1	1	[
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PCB and Additional Information Attachment, Page 2 of 2 Manifest Number: 019695318JJK										
				Shipment ID Number:		12-14-21				
UHWM Section	RFD	Container / WASTE ID	Barcode	Shipment Date: Description	12/14/2021 PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	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	5			250	6614	3000	6344	2878

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APPENDIX B

PCB WASTE CERTIFICATES OF DISPOSAL

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Manifest

94871

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

Shipment 9750-04-0005 Disposal Date 12/31/2020

Volume (Cu/Ft) 37.5 Process Landfill Disposal Location Mixed Waste

RECEIVED 1/5/2021 Alisia L. Jugen

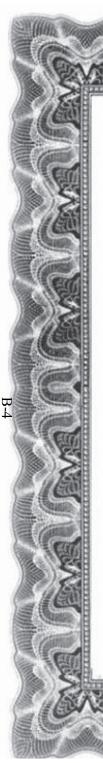
The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

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 cosign Date

Brian Beynon Operations Manager

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



EPA	ID a	¥ TN	D98	2109	9142
		/			

COD Number:

TSDSSI-19-096-20201217

DIVERSIFIED SCIENTIFIC SERVICES, INC.



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 dis	sposal on: <u>12/17/2020</u>			
Attached list of containe	ers from Shipment Number	DSSI-19-096		
Shipped on Hazardous	s Waste Manifest Number	019694669JJK		
Generator Name	US Dept of Energy - Four Rivers	(formerly Fluor Federal Ser	/ices, Inc.)	
EPA ID No.	KY8890008982			
Address	5511 Hobbs Road			
	Kevil, KY 42053-			
Contact	LaChelle Telfair			
	es of law for the making or submission of false or 18 U. S. C. 1001 and 15 U. S. C. 2615). I certify t		Ralph Sheffield	
information contained in or acc	ompanying this document is true, accurate, and co is document for which I cannot personally verify tr	omplete. As Title:	Waste Tracking	Representative
accuracy, I certify as a compan	y official having supervisory responsibility for the tructions, made the verification that this informatic	persons	Ralph	Digitally signed by Ralph Sheffield
accurate, and complete.	ECEIVED 1/14/2021	Signature:	Sheffield	Date: 2021.01.05 09:27:08 -05'00'
Δ	lisu L. Hugen			

Certificate of Disposal

TSDSSI-19-096-20201217

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

Manifest

4899

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

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

RECEIVED	1/28/2021
Alisind	? Jugen

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 Date

Brian Beynon Operations Manager

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

Manifest

4994

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

Shipment 9750-01-0075 Disposal Date 11/30/2020

Volume (Cu/Ft) 755.0 Process Landfill Disposal Location Mixed Waste

RECEIVED 2/23/2021

Alisin R. Jugen

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.

cosign

Brennon Dick Feb 23 2021 2:46 PM

Brennon Dick Operations Manager Date

Manifest

95049

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

Shipment 7340-08-0011 Disposal Date 03/01/2021

Volume (Cu/Ft)

Process Landfill

Disposal Location Mixed Waste

RECEIVED 3/8/2021

7.5

Alisin L. Jugen

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 Mar 5 2021 6:15 PM cosign

Brennon Dick Operations Manager

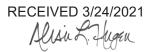
Date

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

DOE, Paducah, Paducah

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

Shipment	Manifest	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
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



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 cosigr Date

Brennon Dick Operations Manager

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

DOE, Paducah, Paducah

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

Shipment 5 1 1	Manifest	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
7340-08-0012	95071	05/13/2021	480.0	Landfill	Mixed Waste
7340-08-0013	95091	05/13/2021	93.0	Landfill	Mixed Waste



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

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

Brennon Dick May 14 2021 4:37 PM cosign

Brennon Dick Operations Manager Date

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

DOE, Paducah, Paducah

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

Shipment 5 1 1	Manifest	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
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

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 cosign Date

Brennon Dick Operations Manager

Manifest

95153

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

Shipment 7340-08-0014 Disposal Date 06/29/2021 Volume (Cu/Ft) 12.3 Process Landfill Disposal Location Mixed Waste

RECEIVED ON	7/2/2021
Alisin L.	Jugen

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 Date

Brennon Dick Operations Manager

Manifest

95154

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

Shipment 7340-08-0015 Disposal Date 06/25/2021 Volume (Cu/Ft) 384.0 Process Landfill Disposal Location Mixed Waste



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

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

Brian Beynon Jun 29 2021 11:44 AM cosign Date

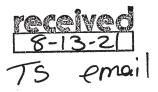
Brennon Dick Operations Manager

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



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

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

Brennon Dick Aug 13 2021 12:53 PM cosign

Date

Brennon Dick Operations Manager

ENERGYSOLUTIONS

UHWM #

95216

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

Shipment 7340-06-0002 **Disposal Date** 08/30/2021

Volume (Cu/Ft)

7.5

Process Landfill

Disposal Location Mixed Waste

RECEIVED 09-09-2021

CDigitally signed by TINA SCOTT 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.

cosign

Brennon Dick Sep 9 2021 9:59 AM

Date

Brennon Dick Operations Manager

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

DOE, Paducah, Paducah

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

Shipment	UHWM #	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-04-0007	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.

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.

10.12.2021 Date

Brennon Dick Operations Manager

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

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

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Brennon Dick Operations Manager

ENERGYSOLUTIONS

CERTIFICATE OF DISPOSAL

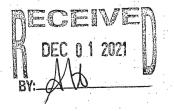
RT

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>U</u> 9750-03-0005 99	<u>HWM #</u> 5148	Disposal Date 11/22/2021	<u>Volume (Cu/Ft)</u> 141.0	<u>Process</u> Landfill	Disposal Location Mixed Waste
		1		:`	; ,



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

Date

Disposal Location Mixed Waste

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

DOE, Paducah, Paducah

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

<u>Shipment</u> 7340-06-0003	<u>UHWM #</u> 95257	<u>Disposal Date</u> 12/14/2021	<u>Volume (Cu/Ft)</u> 22.5	<u>Process</u> Landfill
				- and the
7340-06-0003	95257	12/14/2021	22.5	Landfill

DECEIVE DEC 1 7 2021 BY: AA

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

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

Brennon Dick Operations Manager



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APPENDIX C

PCB WASTE STORAGE AREA INSPECTION RECORDS

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i CB waste inspection Summary Report						
Area	Date Inspected	Leaks Yes	Leaks No	Comments		
8	1/5/2021					
8	2/2/2021					
0	2/1/2021					
8	3/1/2021		V			
8	3/31/2021					
8	4/28/2021					
8	5/26/2021					
8	6/23/2021					
	Area 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 1/5/2021 8 2/2/2021 8 3/1/2021 8 3/31/2021 8 4/28/2021 8 5/26/2021	8 $1/5/2021$ \Box 8 $2/2/2021$ \Box 8 $3/1/2021$ \Box 8 $3/31/2021$ \Box 8 $4/28/2021$ \Box 8 $5/26/2021$ \Box	8 $1/5/2021$ \checkmark 8 $2/2/2021$ \checkmark 8 $3/1/2021$ \checkmark 8 $3/31/2021$ \checkmark 8 $3/31/2021$ \checkmark 8 $4/28/2021$ \checkmark 8 $5/26/2021$ \checkmark		

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

	reb wase inspection Summary Report						
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments		
G-33	3-18	7/21/2021					
G-33	3-18	8/19/2021					
G-33	3-18	9/14/2021					
G-33.	3-18	10/12/2021					
G-33.	3-18	11/9/2021					
G-33.	3-18	12/7/2021					
G-33.	3-37	12/7/2021			PCB storage area established on 11/15/2021.		
PCB/	180-333-01	6/23/2021			PCB storage area established on 6/2/2021.		

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

Buildi	ng Area	Date Inspected	Leaks Yes	Leaks No	Comments
Dunun	ig Aica	Date Inspected	Leaks 105	Leaks INU	Comments
	PCB/180-333-01	7/21/2021			
	PCB/180-333-01	8/19/2021			
	PCB/180-333-01	9/14/2021			
	PCB/180-333-01	10/13/2021			
	PCB/180-333-01	11/9/2021			PCB storage area closed on 12/7/2021.
C 225					
C-335	G-335-17	4/28/2021			PCB storage area established on 4/16/2021.
	G-335-17	5/26/2021			

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

Page 3 of 27

			I CD Waste I	ispection Sun	imary report
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-33	35-17	6/23/2021			PCB storage aread closed on 7/21/21.
C-337					
G-33	37-02	1/5/2021			
G-33	37-02	2/2/2021			
G-33	37-02	3/1/2021			
G-33	37-02	3/31/2021			
G-33	37-02	4/28/2021			
G-33	37-02	5/26/2021			

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

Duilding	A	Dete Learnested		L salar Na	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-3.	37-02	6/23/2021			
G-3.	37-02	7/21/2021			
G-3.	37-02	8/19/2021			
G-3.	37-02	9/14/2021			
G-3.	37-02	10/12/2021			
G-3.	37-02	11/9/2021			
G-3.	37-02	12/7/2021			
G-3.	37-03	1/5/2021			

 $G = GSA \quad S = SAA$

			I CD Waste I	ispection out	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-3.	37-03	2/2/2021			
G-3.	37-03	3/1/2021			
G-3.	37-03	3/31/2021			
G-3.	37-03	4/28/2021			
G-3.	37-03	5/26/2021			
G-3.	37-03	6/23/2021			
G-3.	37-03	7/21/2021			
G-3.	37-03	8/19/2021			

Wednesday, April 20, 2022 G = GSA

 $G = GSA \quad S = SAA$

i ob waste inspection Summary Report	ining inepoir		102			
Inspected Leaks Yes Leaks No Comments	Comments	Leaks No	Leaks Yes	Date Inspected	Area	Building
9/14/2021				9/14/2021	37-03	G-3
0/12/2021				10/12/2021	37-03	G-3
11/9/2021				11/9/2021	37-03	G-3
12/7/2021				12/7/2021	37-03	G-3
1/5/2021				1/5/2021	37-PCB-02	G-3
2/2/2021				2/2/2021	37-PCB-02	G-3
3/1/2021				3/1/2021	37-PCB-02	G-3
3/31/2021				3/31/2021	37-PCB-02	G-3
3/1/2021				3/1/2021	37-PCB-02	G-3

PCB Waste Inspection Summary Report

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
Dunung	Aita	Date Inspected	Leaks 1 cs		Comments
G	-337-PCB-02	4/28/2021			
G	-337-PCB-02	5/26/2021			
G	-337-PCB-02	6/23/2021			
G	-337-PCB-02	7/21/2021			
0	557 100 02	112112021			
C	-337-PCB-02	8/19/2021			
U	-337-FCB-02	6/19/2021		V	
		0/14/2021	_		
G	-337-PCB-02	9/14/2021			
G	-337-PCB-02	10/12/2021			
G	-337-PCB-02	11/9/2021		\checkmark	

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

	TOD waste inspection Summary Report						
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments		
G-3	37-PCB-02	12/7/2021					
C-400							
30D	9AA-400-01	1/5/2021					
30D	AA-400-01	1/12/2021					
30D	AA-400-01	1/19/2021					
30D	9AA-400-01	1/26/2021					
30D	9AA-400-01	2/2/2021					
30D	0AA-400-01	2/9/2021					

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

				ispection Sun	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
301	DAA-400-01	2/15/2021			
301	DAA-400-01	2/22/2021			
301	DAA-400-01	3/1/2021			
301	DAA-400-01	3/4/2021			
301	DAA-400-01	3/10/2021			
301	DAA-400-01	3/17/2021			
301	DAA-400-01	3/24/2021			
301	DAA-400-01	3/31/2021		V	

Wednesday, April 20, 2022

 $G = GSA \quad S = SAA$

Page 10 of 27

			I OD Waste I	ispection built	initially itepoint
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
300	DAA-400-01	4/7/2021			
300	DAA-400-01	4/14/2021			
300	DAA-400-01	4/21/2021			
300	DAA-400-01	4/28/2021			
30E	DAA-400-01	5/5/2021			
300	DAA-400-01	5/12/2021			
300	DAA-400-01	5/19/2021			
30E	DAA-400-01	5/26/2021			

Wednesday, April 20, 2022

 $G = GSA \quad S = SAA$

			I CD Waste I	ispection built	initial property in the second s
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
300	DAA-400-01	6/2/2021			
30E	DAA-400-01	6/9/2021			
300	DAA-400-01	6/16/2021			
300	DAA-400-01	6/23/2021			
300	DAA-400-01	6/30/2021			
300	DAA-400-01	7/7/2021			
300	DAA-400-01	7/14/2021			
30E	DAA-400-01	7/21/2021			

Wednesday, April 20, 2022

				ispection Sun	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
301	DAA-400-01	7/28/2021			
301	DAA-400-01	8/4/2021			
301	DAA-400-01	8/11/2021			
301	DAA-400-01	8/17/2021			
301	DAA-400-01	8/24/2021			
301	DAA-400-01	8/31/2021			
301	DAA-400-01	9/7/2021			
301	DAA-400-01	9/14/2021			

Wednesday, April 20, 2022 G = GSA

 $G = GSA \quad S = SAA$

Page 13 of 27

Buildi	ng Area	Date Inspected	Leaks Yes	Leaks No	Comments
	30DAA-400-01	9/21/2021			
	30DAA-400-01	9/28/2021			
	30DAA-400-01	10/5/2021			
	30DAA-400-01	10/12/2021			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			
	30DAA-PCB-411A-01	1/12/2021			
	30DAA-PCB-411A-01	1/19/2021			

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

				-	initially Report
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
301	DAA-PCB-411A-01	1/26/2021			
301	DAA-PCB-411A-01	2/2/2021			
301	DAA-PCB-411A-01	2/9/2021			
301	DAA-PCB-411A-01	2/16/2021			
301	DAA-PCB-411A-01	2/22/2021			
301	DAA-PCB-411A-01	3/1/2021			
301	DAA-PCB-411A-01	3/4/2021			
301	DAA-PCB-411A-01	3/10/2021			

Wednesday, April 20, 2022

			I CD Waste I	ispection sur	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
301	DAA-PCB-411A-01	3/17/2021			
301	DAA-PCB-411A-01	3/21/2021			
301	DAA-PCB-411A-01	3/31/2021			
301	DAA-PCB-411A-01	4/7/2021			
301	DAA-PCB-411A-01	4/14/2021			
301	DAA-PCB-411A-01	4/21/2021			
301	DAA-PCB-411A-01	4/28/2021			
301	DAA-PCB-411A-01	5/5/2021			

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

Buildi	ng Area	Date Inspected	Leaks Yes	Leaks No	Comments
	30DAA-PCB-411A-01	5/12/2021			
	30DAA-PCB-411A-01	5/19/2021			
	30DAA-PCB-411A-01	5/26/2021			PCB storage area closed on 6/2/2021.
C-733					
0.00	C-733	1/5/2021			
	C-733	2/2/2021			
	C-733	3/1/2021			
	C-733	3/31/2021			

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		4/28/2021			
C-733		5/26/2021			
C-733		6/23/2021			
C-733		7/21/2021			
C-733		8/17/2021			
C-733		9/14/2021			
C-733		10/12/2021			
C-733		11/9/2021			

			102	ispection sum	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		12/7/2021			
C-746-Q					
C-746-	Q	1/5/2021			
C-746-	Q	2/2/2021			
C-746-	Q	3/1/2021			
C-746-	Q	3/31/2021			
			_	_	
C-746-	Q	4/28/2021			
C-746-	Q	5/26/2021			

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

r eb waser inspection Summary Report					
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-746	5-Q	6/23/2021			
C-746	5-Q	7/21/2021			
C-746	5-Q	8/17/2021			
C-746	5-Q	9/14/2021			
C-746	5-Q	10/12/2021			
C-746	5-Q	11/9/2021			
C-746	5-Q	12/7/2021			

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-75.		1/5/2021			
C-75.	2-A	2/2/2021			
C-75	2-A	3/1/2021			
C-75	2-A	3/31/2021			
C-75	2-A	4/28/2021			
C-75	2-A	5/26/2021			
C-75	2-A	6/23/2021			
C-75.	2-A	7/21/2021			

PCB Waste Inspection Summary Report

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

			I CD Waste I	1	, I
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-752-A	A	8/17/2021			
C-752-A	A	9/14/2021			
C-752-A	A	10/12/2021			
C-752-A	A	11/9/2021			
C-752-A	Ą	12/7/2021			
С-753-А					
C-753-A	A	1/5/2021			
C-753-A	A	2/2/2021			

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

				iispeetion Sun	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-753	-A	3/1/2021			
C-753	-A	3/31/2021			
C-753	-A	4/28/2021			
C-753	-A	5/26/2021			
C-753	-A	6/23/2021			
C-753	-A	7/21/2021			
C-753	-A	8/17/2021			
C-753	-A	9/14/2021			

Wednesday, April 20, 2022

 $G = GSA \quad S = SAA$

			I CB Waste I	ispection bui	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-75	3-A	10/12/2021			
C-75	3-A	11/9/2021			
C-75	3-A	12/7/2021			
C-757					
G-75	7-03	1/5/2021			
G-75	7-03	2/2/2021			
G-75	7-03	3/1/2021			
G-75	7-03	3/31/2021			

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

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			I CD Waste I	ispection bui	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-7:	57-03	4/28/2021			
G-7:	57-03	5/26/2021			
G-7:	57-03	6/23/2021			
G-7:	57-03	7/21/2021			
G-7:	57-03	8/19/2021			
G-7:	57-03	9/14/2021			
G-7:	57-03	10/12/2021			
G-7:	57-03	11/9/2021			

Wednesday, April 20, 2022

 $G = GSA \quad S = SAA$

			102	nspection Sun	
Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C	G-757-03	12/7/2021			
C-759					
3	80DAA-PCB-759-01	1/5/2021			
3	30DAA-PCB-759-01	1/12/2021			
3	30DAA-PCB-759-01	1/19/2021			
3	30DAA-PCB-759-01	1/26/2021			
3	30DAA-PCB-759-01	2/2/2021			
3	30DAA-PCB-759-01	2/9/2021			

Wednesday, April 20, 2022 $G = GSA \quad S = SAA$

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Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30	DAA-PCB-759-01	2/15/2021			
30	DAA-PCB-759-01	3/1/2021			
30	DAA-PCB-759-01	3/4/2021			PCB storage area closed on 3/9/2021.

PCB Waste Inspection Summary Repor

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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
D.2.	PCB Waste Generated in 2021	D-6
D.3.	Adjustments to the 2021 Inventory	D-8
	PCB Waste Shipped for Disposal in 2021	
	PCB Waste Inventory as of December 31, 2021	

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

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

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
			LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT						RCRA/TSCA
121255	121255-04	PCB Container	GLASSES FROM TRANSFORMER DRAINING	9/6/2021	235	Liquid (L)	C-752-A	C-337	Mixed (RTM)
			LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT						
121255	121255-05 ^a	PCB Container	GLASSES FROM TRANSFORMER DRAINING	10/13/2021	210	L	C-337	C-337	RTM
									TSCA Mixed
122193	122193-04	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	1/12/2021	1,397	Solid (S)	C-752-A	C-333	(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
			EPOXY PAINT CHIPS, VEGETATION, PPE,						
122235	122235-01	PCB Container	BERYLLIUM	1/22/2021	713	S	C-752-A	C-746-B	TM
			EPOXY PAINT CHIPS, VEGETATION, PPE,						
122235	122235-02	PCB Container	BERYLLIUM	1/23/2021	725	S	C-752-A	C-746-B	TM
			EPOXY PAINT CHIPS, VEGETATION, PPE,						
122235	122235-03	PCB Container	BERYLLIUM	6/30/2021	609	S	C-752-A	C-746-B	TM
			EPOXY PAINT CHIPS, VEGETATION, PPE,						
122235	122235-04	PCB Container	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
			PCB SPILL CLEANUP DEBRIS/ENCAPSULATION						
122253	122253-01	PCB Container	WASTE	1/19/2021	53	S	C-752-A	Proc Bldgs	TM
			PCB SPILL CLEANUP DEBRIS/ENCAPSULATION						
122253	122253-02	PCB Container	WASTE	3/15/2021	52	S	C-752-A	Proc Bldgs	TM
			PCB SPILL CLEANUP DEBRIS/ENCAPSULATION	- / / / /					
122253	122253-03	PCB Container	WASTE	7/6/2021	68	S	C-752-A	Proc Bldgs	TM
1000.50	100050.01		PCB SPILL CLEANUP DEBRIS/ENCAPSULATION	0/2/2021	50			D D 11	T 1 (
122253	122253-04	PCB Container	WASTE	8/2/2021	59	S	C-752-A	Proc Bldgs	TM
1000.50	100050.05		PCB SPILL CLEANUP DEBRIS/ENCAPSULATION	10/10/2021				D D 11	T 1 (
122253	122253-05	PCB Container	WASTE	10/19/2021	46	S	C-752-A	Proc Bldgs	TM
1000.50	100050.07		PCB SPILL CLEANUP DEBRIS/ENCAPSULATION	11/2/2021	(2)		G 7 50 1	D DII	T1 (
122253	122253-06	PCB Container	WASTE	11/2/2021	62	S	C-752-A	Proc Bldgs	TM
100050	122252.07		PCB SPILL CLEANUP DEBRIS/ENCAPSULATION	12/20/2021	71		0.752	Dece D11	T1.6
122253	122253-07	PCB Container	WASTE EXCANATED SOIL	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
		PCB Article	PCB LIGHT						
122396	122396-01 ^a	Container	BALLASTS/TRANSFORMERS/CAPACITORS/ETC	5/20/2021	36	S	C-757	Various	TM

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	С-753-А	Various	ТМ
122430	122430-01	PCB Article Container	CAPACITORS THAT CONTAIN PCB OIL	9/1/2021	84	S	C-752-A	C-710	ТМ
122430	122430-02	PCB Article Container	CAPACITORS THAT CONTAIN PCB OIL	9/1/2021	61	S	C-752-A	C-710	ТМ
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	ТМ
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 GENERATEI	D IN CY 2021 ^b :	27,167		•		

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

^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.

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
				DAMAGED, DISCONNECTED, DE-						
				ENERGIZED, AND DRAINED PCB						TT 1. 1. 1.
				TRANSFORMER B983126.					TOCANCI	Weights updated to
0	106744	106744-01	DCD Artisla	FORMERLY STAGED AT C-337	11/7/2005	C-1:1 (C)	5 (95	C 227	TSCA Mixed	reflect component
0	106744	106744-01	PCB Article	U2C3 "B" LOCATION. FINS FROM DAMAGED,	11/7/2005	Solid (S)	-5,685	C-337	(TM)	removal.
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER B983126.						
				FORMERLY STAGED AT C-337						Repackaged from
1	106744	106744-02	PCB Article		11/7/2005	S	599	C-337	TM	106744-01
-				FINS FROM DAMAGED,						
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER B983126.						
				FORMERLY STAGED AT C-337						Repackaged from
1	106744	106744-03	PCB Article	U2C3 "B" LOCATION.	11/7/2005	S	603	C-337	TM	106744-01
				FINS FROM DAMAGED,						
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER B983126.						
	105-11			FORMERLY STAGED AT C-337		~	60.0	~ ~ ~ ~		Repackaged from
1	106744	106744-04	PCB Article		11/7/2005	S	608	C-337	TM	106744-01
				FINS FROM DAMAGED,						
				DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB						
				TRANSFORMER B983126.						
				FORMERLY STAGED AT C-337						Repackaged from
1	106744	106744-05	PCB Article		11/7/2005	S	600	C-337	TM	106744-01
-	100711	100711-05	I OD Hittele	FINS FROM DAMAGED,	11///2005	5	000	0.001	1111	10071101
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER B983126.						
				FORMERLY STAGED AT C-337						Repackaged from
1	106744	106744-06	PCB Article	U2C3 "B" LOCATION.	11/7/2005	S	591	C-337	TM	106744-01
				FINS FROM DAMAGED,						
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER B983126.						
				FORMERLY STAGED AT C-337						Repackaged from
1	106744	106744-07	PCB Article	U2C3 "B" LOCATION.	11/7/2005	S	533	C-337	TM	106744-01

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
				FINS FROM DAMAGED,						
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER B983126.						
	10/5/4	10/7/4 00		FORMERLY STAGED AT C-337	11/7/2005	~	500	G 225		Repackaged from
1	106744	106744-08	PCB Article	U2C3 "B" LOCATION.	11/7/2005	S	599	C-337	TM	106744-01
				FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER B983126.						
				FORMERLY STAGED AT C-337						Repackaged from
1	106744	106744-09	PCB Article	U2C3 "B" LOCATION.	11/7/2005	S	598	C-337	TM	106744-01
1	100744	100/44-09	I CD Atticle	FINS FROM DAMAGED,	11/7/2003	5	598	C-337	1 101	100/44-01
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER B983126.						
				FORMERLY STAGED AT C-337						Repackaged from
1	106744	106744-10	PCB Article	U2C3 "B" LOCATION.	11/7/2005	S	601	C-337	TM	106744-01
				FINS FROM DAMAGED,						
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER B983126.						
				FORMERLY STAGED AT C-337						Repackaged from
1	106744	106744-11	PCB Article	U2C3 "B" LOCATION.	11/7/2005	S	600	C-337	TM	106744-01
				DAMAGED, DISCONNECTED, DE-						
				ENERGIZED, AND DRAINED PCB						
				TRANSFORMER RHL-0610.						Weights updated to
				FORMERLY STAGED AT C-337						reflect component
0	107839	107839-01	PCB Article	U2C8 "B" LOCATION.	6/27/2004	S	-1,796	C-337	TM	removal.
				FINS FROM DAMAGED,						
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER RHL-0610.						D 1 10
1	107920	107920 02		FORMERLY STAGED AT C-337	(127/2004	G	200	0.227		Repackaged from
1	107839	107839-02	PCB Article	U2C8 "B" LOCATION. FINS FROM DAMAGED.	6/27/2004	S	308	C-337	TM	107839-02
				DISCONNECTED, DE-ENERGIZED,						
				AND DRAINED PCB						
				TRANSFORMER RHL-0610.						
				FORMERLY STAGED AT C-337						Repackaged from
1	107839	107839-03	PCB Article	U2C8 "B" LOCATION.	6/27/2004	S	308	C-337	ТМ	107839-02

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

*Due to rounding, the weight totals may vary.

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	ТМ	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	ТМ	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	ТМ	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	ТМ	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	ТМ	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	ТМ	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	ТМ	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	ТМ	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	ТМ	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	ТМ	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	ТМ	12/14/2021	Waste Control Specialist, Andrews, TX	019695317JJK

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	ТМ	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	ТМ	1/28/2021	Energy <i>Solutions,</i> 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	ТМ	6/21/2021	Energy <i>Solutions,</i> Clive, UT	019695153JJK
121998	121998-05	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES PCB VENTILATION DUCT LIQUIDS FROM	11/5/2020	C-752-A	64	S	C-337	TM	8/20/2021	Energy <i>Solutions,</i> Clive, UT	019695216JJK
121999	121999-02	PCB Container	VENTILATION TROUGHS IN PROCESS BUILDINGS	7/2/2020	C-752-A	220	Liquid (L)	C-337	TM	1/28/2021	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> 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	Energy <i>Solutions,</i> Clive, UT	019695071JJK

122193 12219-05 CCB container EPOXY PAINT CHIPS, VEGETATION AND PPE 4/1/2/2021 C-752-A 809 S C-333 TM 6/18/2021 Clive, UT 01909/51/4JJP 122193 122193-06 PCB Container FPOXY PAINT CHIPS, VEGETATION AND PPE 4/27/2021 C-752-A 1.097 S C-333 TM 6/18/2021 Clive, UT 01909/51/4JJP 122193 122193-07 PCB Container FPOXY PAINT CHIPS, VEGETATION AND PPE 6/4/2021 C-752-A 567 S C-333 TM 6/18/2021 Clive, UT 01909/51/4JJP 122235 122235-01 PCB Container FPOXY PAINT CHIPS, VEGETATION, PPE, 1/22/2021 C-752-A 725 S C-746-B TM 6/18/201 Clive, UT 01909/51/4JP 122235 122236-01 PCB Container BERVLLUM 6/30/201 C-752-A 725 S C-746-B TM 6/18/201 Clive, UT 01909/51/4JP 122235 122235-01 PCB Container VENTILATION DUCT OL AND WATER 1/25/2021 C-752-A	RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
12199 12293 1293 <th1< td=""><td>122193</td><td>122193-04</td><td>PCB Container</td><td>EPOXY PAINT CHIPS, VEGETATION AND PPE</td><td>1/12/2021</td><td>C-752-A</td><td>1,397</td><td>S</td><td>C-333</td><td>ТМ</td><td>6/18/2021</td><td></td><td>019695154JJK</td></th1<>	122193	122193-04	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	1/12/2021	C-752-A	1,397	S	C-333	ТМ	6/18/2021		019695154JJK
12193 122193 122193 122193 122193-00 FCB Container EPOXY PAINT CHIPS, VEGETATION AND PPE 4/270201 C-752-A 1.097 S C-333 TM 6/18/2021 Clice, UT 019995154JB 122193-07 FCB Container EPOXY PAINT CHIPS, VEGETATION AND PPE 6/42021 C-752-A 567 S C-333 TM 10/14/2021 Encrys/ohntons, Encrys/ohntons, BERYLLUM 122235 122235-01 FCB Container EPOXY PAINT CHIPS, VEGETATION, PPE. BERYLLUM 1/2/2021 C-752-A 713 S C-746-B TM 3/42021 Clive, UT 01969512JB 122235 122235-00 FCB Container EFOXY PAINT CHIPS, VEGETATION, PPE. BERYLLUM 1/2/2021 C-752-A 725 S C-746-B TM 6/18/201 Clive, UT 01969512JB 122225 122235-00 FCB Container VERTICHIPS, VEGETATION, PPE. BERYLLUM (3/2020) C-752-A 1/9 L Blags TM 01/42021 Clive, UT 01969512JB 122225 122252.01 FCB Container VERTICHIND WAT												EnergySolutions,	
12199 121930 IC 20 statisfie FOR Container	122193	122193-05	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	4/12/2021	C-752-A	809	S	C-333	ТМ	6/18/2021		019695154JJK
12193 122193 122193.07 PCB container EPOXY PAINT CHIPS, VEGETATION AND PPE BERVLIUM 64/2021 C-752-A 567 S C-333 TM 10/14/2021 Clive, UT 019695252JB 122235 12235-01 PCB container EPOXY PAINT CHIPS, VEGETATION, PPE, BERVLIUM 1/2/2021 C-752-A 713 S C-746-B TM 3/4/201 Clive, UT 019695252JB 122235 122235-01 PCB container EPOXY PAINT CHIPS, VEGETATION, PPE, BERVLIUM 1/2/2021 C-752-A 775 S C-746-B TM 6/18/2021 Clive, UT 01969512JB 122235 12225-02 PCB container EPOXY PAINT CHIPS, VEGETATION, PPE, BERVLIUM 6/3/0221 C-752-A 6/90 S C-746-B TM 10/14/201 Clive, UT 01969522JB 122252 12225-02 PCB container VENTILATION DUCT OIL AND WATER 1/2/2021 C-752-A 129 L Bidgs TM 0/2/2/201 Clive, UT 0196952JB 122252 12225-02 PCB container VENTILATION DUCT OIL AND WATER <td></td>													
12191 1219-07 PC8 Containe EPCXY PAINT CHIPS, VEGETATION, PXPE, BERYLLUM 64/2021 C-752-A 773 S C-736-B TM 10/1/2021 Cfice, UT 01/09052205 12225 12235-01 PC8 Containe EPCXY PAINT CHIPS, VEGETATION, PXPE, BERYLLUM 1222021 C-752-A 713 S C-746-B TM 342021 Cfice, UT 0109057206 12225 PC8 Containe EPCXY PAINT CHIPS, VEGETATION, PXPE, BERYLLUM C-752-A 713 S C-746-B TM 612021 Cfice, UT 0109057206 12225 PC8 Containe EPCXY PAINT CHIPS, VEGETATION, PXPE, BERYLLUM C-752-A 705 S C-746-B TM 612021 Cfice, UT 0109057206 12225 PC8 Containe FPOXY PAINT CHIPS, VEGETATION, PXPE, BERYLLUM C-752-A R C-746-B TM 101/10201 Cfice, UT 0109057206 12225 PC8 Containe VENTILATION DUCT OIL AND WATER 152021 C-752-A R PC EnergySolutons, CFice, UT 0109057206 12225 PC8 Containe VENTILATION DUCT OIL AND WATER 71/2021 C-752-A L Bidg<	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		019695154JJK
122235 12225 12225	122102	122102.07	DCD Container	EDOXY DAINT CHIDS VECETATION AND DDE	6/4/2021	C 752 A	5(7	C	C 222	TM	10/14/2021		010605252111/
12223 12225-01 PCB Container DEBCNILUUM 1222021 C-732-A 713 C.746-B TM 312010 Cire, UT 01990707111 122235 12223-02 PCB Container EPOXY PAINT CHIPS, VEGETATION, PE, BERYLLUM 1/23/201 C.752-A 725 C.746-B TM 618/201 Clive, UT 0199057111 12223 PCB Container EPOXY PAINT CHIPS, VEGETATION, PE, BERYLLUM C.752-A 725 C.746-B TM 618/201 Clive, UT 0199057111 12224 PCB Container EPOXY PAINT CHIPS, VEGETATION, PE, BERYLLUM C.752-A 725 C.746-B TM 1014201 Clive, UT 0199057111 12224 PCB Container VENTILATION DUCT OIL AND WATER 712502 C.752-A 126 Proc EnergySolutons, 0199057111 12225 PCB Container VENTILATION DUCT OIL AND WATER 71/202 C.752-A 126 L Bdgs TM 928201 Clive, UT 0199057111 12225 PCB Container VENTILATION DUCT OIL AND WATER 71/202 C.752-A 126 L Bdgs TM 928201 Clive, UT <td>122193</td> <td>122193-07</td> <td>PCB Container</td> <td></td> <td>0/4/2021</td> <td>C-/32-A</td> <td>307</td> <td>3</td> <td>C-355</td> <td>1 1/1</td> <td>10/14/2021</td> <td></td> <td>019093232JJK</td>	122193	122193-07	PCB Container		0/4/2021	C-/32-A	307	3	C-355	1 1/1	10/14/2021		019093232JJK
Image: bit is the second sec	122225	122225-01	PCP Containar		1/22/2021	C 752 A	712	S	C 746 P	тм	2/4/2021		01060507111
12235 10 12235-02 1226 CR Container BERYLLUM 1232021 C-752-A 725 S C-746-B TM 6/18/201 C/five_UT 01999512JJJJ 12235 10 12235-01 PCB Container EPOXY PAINT CHEPS, VECETATION, PPE, BERYLLUM 6/30/201 C-752-A 6/09 S C-746-B TM 10/14/201 Clive_UT 01999512JJJJ 12235 10 PCB Container VENTILATION DUCT OIL AND WATER 12/25020 Clive. UT 0199512JJJJ 10/16/25JJJJ 10/16/25JJ	122233	122235-01			1/22/2021	C-752-A	/15	3	C-740-D	1 141	5/4/2021	Energy Solutions	0190950/1JJK
L2225 L2225-00 PCB Container EPGXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM 6/30/201 C-752-A 6/69 S C-764-B TM 10/14/201 Clive, UT 01/09/052/JJK 122252 122252-01 PCB Container VENTILATION DUCT OIL AND WATER 1/25/201 C-752-A 159 L Bidgs TM 5/25/201 Clive, UT 01/09/052/JJK 122252 122252-01 PCB Container VENTILATION DUCT OIL AND WATER 3/15/2021 C-752-A 228 L Bidgs TM 9/28/2021 Clive, UT 01/09/552/JJK 122252 122252-04 PCB Container VENTILATION DUCT OIL AND WATER 5/13/2021 C-752-A 228 L Bidgs TM 10/28/2021 Clive, UT 01/09/552/JJK 122252-04 PCB Container VENTILATION DUCT OIL AND WATER 7/1/2021 C-752-A 225 L Bidgs TM 10/28/2021 Clive, UT 01/09/552/JJK 122252-04 PCB Container VENTILATION DUCT OIL AND WATER 7/1/2021 C-752-A 225 L	122235	122235-02	PCB Container		1/23/2021	C-752-A	725	S	C-746-B	ТМ	6/18/2021		019695154JJK
12225 1225-03 PCB Container BERYLLUM 630/2021 C-752-A 6609 S C-746-B TM 10/14/201 Clive, UT 01905252JB 12252-01 PCB Container VENTILATION DUCT OIL AND WATER 1/25/201 C-752-A 1205 Proc Fm EnergySolutions, EnergySolutions, 10905252JB 12252-01 PCB Container VENTILATION DUCT OIL AND WATER 3/15/201 C-752-A 2280 L Bldgs TM 028/201 EnergySolutions, 1090523JB 12252-01 PCB Container VENTILATION DUCT OIL AND WATER 7/1201 C-752-A 2280 L Bldgs TM 1028/201 Clive, UT 0190523JB 12252-03 PCB Container VENTILATION DUCT OIL AND WATER 7/1201 C-752-A 2250 L Bldgs TM 1028/201 Clive, UT 0190526JB 12252-03 PCB Container VENTILATION DUCT OIL AND WATER 7/1/201 C-752-A 2250 L Bldgs TM 1028/201 Clive, UT 0190526JB 12252-05 PCB Container VENTILATION DUCT OIL AND WATER 7/1/201 C-752-A	122200	122200 02			1/20/2021	0 /0211	, 20	5	0 / 10 2	1111	0,10,2021		01909010 10011
12225 PER Container VENTILATION DUCT OIL AND WATER 1/25/202 C-752-A 159 L Bidgs TM 5/25/201 Clive, UT 0/196/32.31/JK 12225 12225-02 PCB Container VENTILATION DUCT OIL AND WATER 3/15/202 C-752-A 228 L Bidgs TM 9/28/201 Clive, UT 0/196952.31/JK 12225 12225-03 PCB Container VENTILATION DUCT OIL AND WATER 5/13/201 C-752-A 215 L Bidgs TM 1028/202 Clive, UT 0/196952.01/JK 12225 12225-03 PCB Container VENTILATION DUCT OIL AND WATER 5/13/201 C-752-A 215 L Bidgs TM 1028/202 Clive, UT 0/196952.01/JK 12225 12225-04 PCB Container VENTILATION DUCT OIL AND WATER 7/1/2021 C-752-A 225 L Bidgs TM 1028/2021 Clive, UT 0/196952.01/JK 12225 12252-04 PCB Container VENTILATION DUCT OIL AND WATER 7/1/2021 C-752-A 225 L Bidgs TM 1028/2021 Clive, UT 0/196952.01/JK <	122235	122235-03	PCB Container		6/30/2021	C-752-A	609	S	С-746-В	ТМ	10/14/2021		019695252JJK
12222 12252-01 PCB Containe VENTILATION DUCT OIL AND WATER 1/25/201 C.752-A 159 L Bidgs TM 525/201 Circe, UT 0199521318 12252-02 12252-02 PCB Containe VENTILATION DUCT OIL AND WATER 315/201 C.752-A 228 L Bidgs TM 92.00 EnergySolution 10995221318 12252-02 PCB Containe VENTILATION DUCT OIL AND WATER 513/201 C.752-A 228 L Bidgs TM 1028020 EnergySolution 12252-03 PCB Containe VENTILATION DUCT OIL AND WATER 513/201 C.752-A 225 L Bidgs TM 1028020 Clirey, UT 0199526138 12252-03 PCB Containe VENTILATION DUCT OIL AND WATER 71/202 C.752-A 225 L Bidgs TM 1028/201 Clirey, UT 0199526138 12252-07 PCB Containe VENTILATION DUCT OIL AND WATER 71/202 C.752-A 219 L Bidgs TM 1028/201 Clirey, UT 0199526138									Proc				
122252 PCB container VENTILATION DUCT OIL AND WATER 3/15/201 C.752-A 228 L Bidgs TM 9/28/201 Circuc, UT 0/969524JJK 12252 PCB container VENTILATION DUCT OIL AND WATER 5/13/201 C.752-A 215 L Bidgs TM 1/28/201 Circuc, UT 0/969524JJK 12252 12252-04 PCB container VENTILATION DUCT OIL AND WATER 7/1/201 C.752-A 215 L Bidgs TM 1/028/201 Circuc, UT 0/969524JJK 12252 12252-04 PCB container VENTILATION DUCT OIL AND WATER 7/1/202 C.752-A 215 L Bidgs TM 1/028/201 Clive, UT 0/969526JJK 12252 12252-00 PCB container VENTILATION DUCT OIL AND WATER 7/1/2021 C.752-A 219 L Bidgs TM 1/028/201 Clive, UT 0/969526JJK 12252 12252-00 PCB container VENTILATION DUCT OIL AND WATER 8/50/201 C.752-A 219 L Bidgs TM 1/028/201 Clive, UT 0/969526JJK 12252-12 PCB contain	122252	122252-01	PCB Container	VENTILATION DUCT OIL AND WATER	1/25/2021	C-752-A	159	L	Bldgs	TM	5/25/2021		019695128JJK
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122252 122252 PCB containe VENTILATION DUCT OIL AND WATER 5/13/201 C.752.4 215 L Bldgs TM 10/28/201 Circu, TM Bldgs TM I0/28/201 Circu, TM I0/28/201 I0	122252	122252-02	PCB Container	VENTILATION DUCT OIL AND WATER	3/15/2021	C-752-A	228	L	Bldgs	TM	9/28/2021	Clive, UT	019695234JJK
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122252 122252-04 PCB Containe VENTILATION DUCT OIL AND WATER 7/1/201 C-752-A 225 L Bldgs TM 10/28/201 Clive, UT 01969561136 122252 122252-05 PCB Containe VENTILATION DUCT OIL AND WATER - - Bldgs TM 10/28/201 Clive, UT 019695261136 122252 122252-05 PCB Containe VENTILATION DUCT OIL AND WATER 8/5/201 C-752-A 225 L Bldgs TM 10/28/201 Clive, UT 019695261136 122252 122252-06 PCB Containe VENTILATION DUCT OIL AND WATER 8/5/201 C-752-A 225 L Bldgs TM 10/28/201 Clive, UT 019695261136 122252 12225-06 PCB Containe VENTILATION DUCT OIL AND WATER 8/5/201 C-752-A 225 L Bldgs TM 10/28/201 Clive, UT 019695261136 122253 12225-06 PCB Containe VENTILATION DUCT OIL AND WATER 1/19/201 C-752-A 53 S Bldgs TM 10/28/201 Clive, UT 019695257136 122253 12225-01 </td <td>122252</td> <td>122252-03</td> <td>PCB Container</td> <td>VENTILATION DUCT OIL AND WATER</td> <td>5/13/2021</td> <td>C-752-A</td> <td>215</td> <td>L</td> <td>Bldgs</td> <td>ТМ</td> <td>10/28/2021</td> <td></td> <td>019695261JJK</td>	122252	122252-03	PCB Container	VENTILATION DUCT OIL AND WATER	5/13/2021	C-752-A	215	L	Bldgs	ТМ	10/28/2021		019695261JJK
number of the second													
122252 PCB Container VENTILATION DUCT OIL AND WATER 7/14/201 C-752-A 219 L Bldgs TM 10/28/201 Clive, UT 01995951JJK 122252 122252-06 PCB Container VENTILATION DUCT OIL AND WATER 8/5021 C-752-A 2225 L Bldgs TM 10/28/201 Clive, UT 01995950JJK 122252 122252-07 PCB Container VENTILATION DUCT OIL AND WATER 8/30/201 C-752-A 198 L Bldgs TM 12/14/201 Clive, UT 01995930JJK 122253 122250-07 PCB Container VENTILATION DUCT OIL AND WATER 8/30/201 C-752-A 198 L Bldgs TM 12/14/201 Clive, UT 01995930JJK 122253 122253-07 PCB Container VENTILATION DUCT DILAND WATER 6/52.4 S3 S Bldgs TM 10/28/201 Clive, UT 01995957JK 122253 122253-07 PCB Container PCB Article ANDP DEBRIS/ENCAPSULATION - C-752-A S2 S Bldgs <t< td=""><td>122252</td><td>122252-04</td><td>PCB Container</td><td>VENTILATION DUCT OIL AND WATER</td><td>7/1/2021</td><td>C-752-A</td><td>225</td><td>L</td><td>Bldgs</td><td>TM</td><td>10/28/2021</td><td></td><td>019695261JJK</td></t<>	122252	122252-04	PCB Container	VENTILATION DUCT OIL AND WATER	7/1/2021	C-752-A	225	L	Bldgs	TM	10/28/2021		019695261JJK
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122252 122252.00 PCB Container VENTILATION DUCT OIL AND WATER 8/5/2021 C-752-A 225 L Bldgs TM 10/28/202 Clive, UT 01969561JJJK 122252 122252.07 PCB Container VENTILATION DUCT OIL AND WATER 8/30/202 C-752-A 198 L Bldgs TM 12/14/202 Clive, UT 01969530JJK 122253 122253.01 PCB Container PCB SPILL CLEANUP DEBRIS/ENCAPSULATION C-752-A 198 L Bldgs TM 12/14/202 Clive, UT 019695257JJK 122253 122253.01 PCB Container PCB SPILL CLEANUP DEBRIS/ENCAPSULATION C-752-A 53 S Bldgs TM 10/28/202 Clive, UT 019695257JJK 122253 122253.01 PCB Container PCB SPILL CLEANUP DEBRIS/ENCAPSULATION C-752-A 65 S Bldgs TM 10/28/202 Clive, UT 019695257JJK 122253 PCB Container	122252	122252-05	PCB Container	VENTILATION DUCT OIL AND WATER	7/14/2021	C-752-A	219	L	ē	TM	10/28/2021		019695261JJK
Index													
122252PCB ContaineVENTILATION DUCT OIL AND WATER8/30/201C.752-A198LBldgsTM12/14/201Clive, UT019695309JK122253122253-01PCB ContainePCB SPILL CLEANUP DEBRIS/ENCAPSULATIONProc-EnergySolutions,019695257JK122253122253-02PCB ContainePCB SPILL CLEANUP DEBRIS/ENCAPSULATIONProc-EnergySolutions,019695257JK122253122253-02PCB ContainePCB SPILL CLEANUP DEBRIS/ENCAPSULATIONProcEnergySolutions,019695257JK122253122253-03PCB ContainePCB SPILL CLEANUP DEBRIS/ENCAPSULATIONProcEnergySolutions,019695257JK122205122253-03PCB ContainePCB SORIAWASTE7/6/201C.752-A68SBldgsTM10/28/201Clive, UT019695257JK122306122306-01PCB ContaineEXC	122252	122252-06	PCB Container	VENTILATION DUCT OIL AND WATER	8/5/2021	C-752-A	225	L	8	TM	10/28/2021		019695261JJK
Image: Construct of the							100						
122253122253-0PCB ContainerCM SYELWASTE1/19/201C-752-A53SBldgsTM10/28/201Clive, UT019695257JK122253-0PCB ContainerPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONProc-EnergySolutions,019695257JK122253-0PCB ContainerPCB SPILL CLEANUP DEBRIS/ENCAPSULATION52SBldgsTM10/28/201Clive, UT019695257JK122253-0PCB ContainerPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONProc-EnergySolutions,019695257JK122253122253-03PCB ContainerPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONProc-EnergySolutions,019695257JK122254122253-03PCB ContainerPCB ContainerPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONProcEnergySolutions,019695257JK122254122253-03PCB ContainerPCB ContainerPCB ContainerEnergySolutions,019695257JK122206122306-01PCB ContainerEXCAVATED SOIL3/4/2021C-752-A68SBldgsTM10/28/2021Clive, UT019695257JK122306PCB ArticleELW PCB EXCESS EQUIPMENT FOR OFFSITEEnergySolutions,EnergySolutions,019695143JK122406-01ContainerDISPOSAL5/13/2021C-753-A7,185SVariousTM7/29/2021Clive, UT019695194JK <td>122252</td> <td>122252-07</td> <td>PCB Container</td> <td></td> <td>8/30/2021</td> <td>C-752-A</td> <td>198</td> <td>L</td> <td></td> <td>ТM</td> <td>12/14/2021</td> <td></td> <td>019695309JJK</td>	122252	122252-07	PCB Container		8/30/2021	C-752-A	198	L		ТM	12/14/2021		019695309JJK
IndexPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONPCCProcEnergySolutions, Clive, UT019695257JJK122253122253-02PCB ContainerPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONC-752-A52SBldgsTM10/28/2021Clive, UT019695257JJK122253122253-03PCB ContainerPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONC-752-A68SBldgsTM10/28/2021Clive, UT019695257JJK122253122253-03PCB ContainerPCB ContainerFERCAVATED SOIL7/6/2021C-752-A68SBldgsTM10/28/2021Clive, UT019695257JJK122306122306-01PCB ContainerEXCAVATED SOIL3/4/2021C-752-A4,235SC-333RTM6/21/2021Clive, UT019695148JJK122406122406-01ContainerDISPOSAL5/13/2021C-753-A7,185SVariousTM7/29/2021Clive, UT019695194JJK	100050	100052-01			1/10/2021	0.752	52	C			10/20/2021		010(0525711)
122253PCB ContainerORB SPILL CLEANUP DEBRIS/ENCAPSULATIONC-752-A52SBldgsTM10/28/201Clive, UT019695257JJK122253PCB ContainerPCB SPILL CLEANUP DEBRIS/ENCAPSULATIONProc-EnergySolutions,019695257JJK122253-03PCB ContainerPCB ContainerPCB Container-7/6/201C-752-A68SBldgsTM10/28/201Clive, UT019695257JJK122306122306-01PCB ContainerEXCAVATED SOILEnergySolutions,019695148JJK122406122406-01ContainerLLW PCB EXCESS EQUIPMENT FOR OFFSTIEEnergySolutions,019695143JJK122406-01ContainerDISPOSAL5/13/2021C-753-A7,185SVariousTM7/29/201Clive, UT019695143JJK	122253	122253-01	PCB Container		1/19/2021	C-/52-A	55	5	U	1 M	10/28/2021		019695257JJK
122253 122253-03 PCB Container PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE 7/6/2021 C-752-A 68 S Proc Bidgs TM 10/28/2021 EnergySolutions, Clive, UT 019695257JJK 122205 122306-01 PCB Container EXCAVATED SOIL 3/4/2021 C-752-A 68 S Bidgs TM 10/28/2021 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 Clive, UT 019695148JJK 122406 122406-01 Container DISPOSAL 5/13/2021 C-753-A 7,185 S Various TM 7/29/2021 Clive, UT 019695194JJK	122252	122252 02	DCD Containan		2/15/2021	C 752 A	52	c		тМ	10/28/2021		010605257111
122253 122253-03PCB ContainerORM STE7/6/201C-752-A68SBldgsTM10/28/201Clive, UT01969527JJK122306 122306-01PCB ContainerEXCAVATED SOIL3/4/201C-752-A68SBldgsTM10/28/201Clive, UT01969527JJK122306 122306-01PCB ArticleEXCAVATED SOIL3/4/201C-752-A4,235SC-333RTM6/21/201Clive, UT019695148JJK122406 122406-01ContainerDISPOSAL5/13/201C-753-A7,185SVariousTM7/29/201Clive, UT019695149JJK	122233	122233-02	rCB Container		3/13/2021	C-752-A	32	3	Ŭ	1 111	10/28/2021		019093237JJK
122306PCB ContainerEXCAVATED SOIL3/4/2021C-752-A4,235SC-333RTM6/21/2021EnergySolutions, Clive, UT019695148JJK122406122406-01ContainerDISPOSAL5/13/2021C-753-A7,185SVariousTM7/29/2021Clive, UT019695194JJK	122253	122253-03	PCB Container		7/6/2021	C-752-A	68	S		ТМ	10/28/2021		0196952571IK
122306 122306-01 PCB Container EXCAVATED SOIL 3/4/2021 C-752-A 4,235 S C-333 RTM 6/21/2021 Clive, UT 019695148JJK 122406 122406-01 PCB Article LLW PCB EXCESS EQUIPMENT FOR OFFSITE 5/13/2021 C-753-A 7,185 S Various TM 6/21/2021 Clive, UT 019695148JJK 122406 122406-01 Container DISPOSAL 5/13/2021 C-753-A 7,185 S Various TM 7/29/2021 Clive, UT 019695194JJK	122233	122235-05		WADIE	110/2021	0-752 - A	00	6	Diago	1 1 1 1	10/20/2021		01707525755K
PCB ArticleLLW PCB EXCESS EQUIPMENT FOR OFFSITEImage: ContainerPCB ArticleLLW PCB EXCESS EQUIPMENT FOR OFFSITEImage: ContainerPCB ArticleEnergySolutions,EnergySolutions,EnergySolutions,Image: ContainerCive, UT019695194JJK122406-01ContainerDISPOSAL5/13/2021C-753-A7,185SVariousTM7/29/2021EnergySolutions,019695194JJK	122306	122306-01	PCB Container	EXCAVATED SOIL	3/4/2021	C-752-A	4.235	S	C-333	RTM	6/21/2021		019695148JIK
122406 122406-01 Container DISPOSAL 5/13/2021 C-753-A 7,185 S Various TM 7/29/2021 Clive, UT 019695194JJK	122000					5,0211	.,200	5	0.000				
	122406	122406-01			5/13/2021	C-753-A	7,185	S	Various	TM	7/29/2021	0.	019695194JJK
							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
			DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED						
			PCB TRANSFORMER B983126. FORMERLY STAGED AT C-337		a 111 (a)				TSCA Mixed
106744	106744-01	PCB Article	U2C3 "B" LOCATION. FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED,	11/7/2005	Solid (S)	9,964	C-337	C-337	(TM)
			AND DRAINED PCB TRANSFORMER B983126. FORMERLY						
106744	106744-04	PCB Article	STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	608	C-337	C-337	TM
100744	100/44-04	I CD /Ittele	FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED,	11///2005	5	000	0-557	0-557	1111
			AND DRAINED PCB TRANSFORMER B983126. FORMERLY						
106744	106744-05	PCB Article	STAGED AT C-337 U2C3 "B" LOCATION.	11/7/2005	S	600	C-337	C-337	TM
			DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED						
			PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337						
107839	107839-01	PCB Article	U2C8 "B" LOCATION.	6/27/2004	S	15,350	C-337	C-337	TM
			FINS FROM DAMAGED, DISCONNECTED, DE-ENERGIZED,						
			AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY						
107839	107839-02	PCB Article	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
			MISC PART AND FROM TWO PCB TRANSFORMER IN C-337 -						
122473	122473-01 ^a	PCB Article Container	RECEIVED MATERIAL FROM 107839-01.	6/27/2004	S	450	C-337	C-337	TM
			FLUORESCENT LIGHT FIXTURES, LIGHT BALLASTS AND						
			WIRING, CONTAINER PCB (50-499 PPM) AND ASBESTOS		~		~ ~ ~ .	~	
122494	122494-01	PCB Article Container	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		235	C-752-A	C-337	RCRA/TSCA Mixed (RTM)
121255	121255-04	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES	9/6/2021	Liquid (L)	235	C-/52-A	C-337	Mixed (KIM)
121255	121255-05 ^a	PCB Container	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
122252	122253-04	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	8/2/2021	S	59	C-752-A	Proc Bldgs	TM
122253	122253-01	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	122253-00	PCB Container	PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE	12/20/2021	S	71	C-752-A	Proc Bldgs	TM
122200	122200 01	. eb conumer	C-333 UNIT 5 CELLS 1-10, UNIT 6 CELLS 1-10 AND	12/20/2021	5	/1	0 102 11	1100 Diags	1111
			PCB/ASBESTOS WASTE - THIS MATERIAL WAS REPACKED						
			INTO THIS CONTAINER (122431-02) (C-631-3 WASTE ADDED						
122431	122431-02 ^a	PCB Container	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 DECEMB	ER 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.