

**Annual Document of
Polychlorinated Biphenyls
at the Paducah Gaseous Diffusion Plant,
Paducah, Kentucky, for
January 1, 2020–December 31, 2020**



This document is approved for public release per review by:

David Hayden
FRNP Classification Support

06-29-2021
Date

**Annual Document of
Polychlorinated Biphenyls
at the Paducah Gaseous Diffusion Plant,
Paducah, Kentucky, for
January 1, 2020–December 31, 2020**

Date Issued—June 2021

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

THIS PAGE INTENTIONALLY LEFT BLANK

CONTENTS

TABLES	v
ACRONYMS.....	vii
EXECUTIVE SUMMARY	ES-1
1. PCB WASTE MANIFESTS	1-1
2. PCB WASTE CERTIFICATES OF DISPOSAL.....	2-1
3. PCB WASTE STORAGE AREA INSPECTION RECORDS.....	3-1
4. PCB SPILL CLEANUP RECORDS.....	4-1
5. PCB ELECTRICAL EQUIPMENT IN SERVICE.....	5-1
6. PCB WASTE ACTIVITY.....	6-1
7. PCB WASTE SHIPMENT RECEIPT LOG.....	7-1
APPENDIX A: PCB WASTE MANIFESTS	A-1
APPENDIX B: PCB WASTE CERTIFICATES OF DISPOSAL.....	B-1
APPENDIX C: PCB WASTE STORAGE AREA INSPECTION RECORDS.....	C-1
APPENDIX D: PCB WASTE INVENTORY TABLES	D-1

THIS PAGE INTENTIONALLY LEFT BLANK

TABLES

1.1. PCB Waste Manifests Summary	1-1
1.2. PCB/RCRA Waste Stream LDR Manifests Summary.....	1-5
2.1. PCB Waste Certificates of Disposal Summary	2-2
3.1. PCB Waste Storage Areas at the Paducah Site	3-1
5.1. PCB Electrical Equipment in Service as of December 31, 2020	5-1
6.1. PCB Waste Activity Summary for CY 2020	6-2
7.1. CY 2020 PCB Waste Shipment Receipt Log.....	7-2

THIS PAGE INTENTIONALLY LEFT BLANK

ACRONYMS

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

THIS PAGE INTENTIONALLY LEFT BLANK

EXECUTIVE SUMMARY

This *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2020–December 31, 2020*, (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 2020 are summarized below:

PCB transformers in service as of 12/31/2020:	0
Total PCBs in kg in PCB transformers as of 12/31/2020:	0
PCB large capacitors in service as of 12/31/2020:.....	0
PCB waste in kg ¹ generated in CY 2020:	1,150,351
PCB waste in kg ² shipped off-site for treatment/disposal in CY 2020:.....	1,101,898
PCB waste in kg ³ remaining in storage for disposal as of 12/31/2020:.....	66,725

Throughout CY 2020, the Paducah Site generated seventy-six manifested shipments of PCB wastes to off-site treatment/disposal facilities. Twenty-five CDs were received in CY 2020 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 2020 Annual Compliance Agreement Report January 1 through December 31, 2020, for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, FRNP-RPT-0187, dated June 2021, 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, 2020–December 31, 2020*, (Annual Document) contains the signed manifests of PCB wastes shipped off-site for disposal during CY 2020.

Seventy-six manifests with 88 containers of solid and liquid PCB wastes were shipped for disposal. Copies of the UHWMs are located in Appendix A. PCB wastes were shipped to the following disposal sites:

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

Table 1.1 summarizes the 2020 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.

During 2020, one PCB/Resource Conservation and Recovery Act (RCRA) waste stream accounted for 67 containers shipped off-site. The characterization for each of these 67 containers were identical; however, they were characterized in three distinct populations. Each container in the population had identically completed Land Disposal Restriction (LDR) forms. Historically the manifests and LDR forms have been presented in their entirety in Appendix A of this document. In order to reduce duplicate pages in Appendix A, Table 1.2 has been developed to summarize the correlation of the LDR forms and the manifests for this waste stream. The table includes the characterization package number, the date the LDR form was signed, and the manifest number. The LDR form has been included once for each of the three populations for review.

Table 1.1. PCB Waste Manifests Summary

UHWM Number	Date Shipped	Shipment Destination	Number of PCB Containers	Weight from UHWM (kg)^{1,2}
019694786JJK	2/18/2020	EnergySolutions, Clive, UT	1	15,309
019694796JJK	2/24/2020	EnergySolutions, Clive, UT	1	11,553
019694797JJK	2/24/2020	EnergySolutions, Clive, UT	1	13,830
019694798JJK	2/24/2020	EnergySolutions, Clive, UT	1	13,703

Table 1.1. PCB Waste Manifests Summary (Continued)

UHWM Number	Date Shipped	Shipment Destination	Number of PCB Containers	Weight from UHWM (kg)^{1,2}
019694808JJK	2/28/2020	Waste Control Specialist, Andrews, TX	1	607
019694809JJK	2/28/2020	EnergySolutions, Clive, UT	1	15,508
019694810JJK	2/28/2020	EnergySolutions, Clive, UT	1	12,360
019694819JJK	3/5/2020	EnergySolutions, Clive, UT	1	11,108
019694820JJK	3/5/2020	EnergySolutions, Clive, UT	1	11,988
019694821JJK	3/5/2020	EnergySolutions, Clive, UT	1	13,512
019694822JJK	3/12/2020	EnergySolutions, Clive, UT	1	14,220
019694823JJK	3/12/2020	EnergySolutions, Clive, UT	1	10,936
019694824JJK	3/12/2020	EnergySolutions, Clive, UT	1	13,231
019694825JJK	3/12/2020	EnergySolutions, Clive, UT	1	13,966
019694838JJK	3/19/2020	EnergySolutions, Clive, UT	1	13,340
019694839JJK	3/19/2020	EnergySolutions, Clive, UT	1	13,440
019694840JJK	3/19/2020	EnergySolutions, Clive, UT	1	10,736
019694841JJK	3/19/2020	EnergySolutions, Clive, UT	1	9,593
019694843JJK	4/14/2020	EnergySolutions, Clive, UT	1	67
019694846JJK	9/22/2020	EnergySolutions, Clive, UT	1	12,478
019694847JJK	9/22/2020	EnergySolutions, Clive, UT	1	11,875
019694848JJK	9/24/2020	EnergySolutions, Clive, UT	1	9,063
019694849JJK	9/24/2020	EnergySolutions, Clive, UT	1	13,780
019694850JJK	3/30/2020	EnergySolutions, Clive, UT	1	11,009
019694851JJK	3/30/2020	EnergySolutions, Clive, UT	1	12,079
019694852JJK	3/30/2020	EnergySolutions, Clive, UT	1	12,025
019694866JJK	6/29/2020	EnergySolutions, Clive, UT	6	493
019694870JJK	3/16/2020	EnergySolutions, Clive, UT	1	106

Table 1.1. PCB Waste Manifests Summary (Continued)

UHWM Number	Date Shipped	Shipment Destination	Number of PCB Containers	Weight from UHWM (kg)^{1,2}
019694871JJK	3/16/2020	EnergySolutions, Clive, UT	5	987
019694891JJK	7/30/2020	EnergySolutions, Clive, UT	3	189
019694899JJK	9/10/2020	EnergySolutions, Clive, UT	1	11,083
019694900JJK	9/10/2020	EnergySolutions, Clive, UT	1	9,378
019694901JJK	9/10/2020	EnergySolutions, Clive, UT	1	14,540
019694902JJK	9/10/2020	EnergySolutions, Clive, UT	1	13,061
019694905JJK	9/17/2020	EnergySolutions, Clive, UT	1	14,238
019694906JJK	9/17/2020	EnergySolutions, Clive, UT	1	14,846
019694907JJK	9/17/2020	EnergySolutions, Clive, UT	1	11,408
019694908JJK	9/17/2020	EnergySolutions, Clive, UT	1	9,816
019694938JJK	9/24/2020	EnergySolutions, Clive, UT	1	13,789
019694939JJK	9/24/2020	EnergySolutions, Clive, UT	1	9,852
019694944JJK	9/29/2020	EnergySolutions, Clive, UT	1	8,691
019694945JJK	9/29/2020	EnergySolutions, Clive, UT	1	10,433
019694946JJK	10/1/2020	EnergySolutions, Clive, UT	1	13,336
019694947JJK	10/1/2020	EnergySolutions, Clive, UT	1	10,233
019694948JJK	10/1/2020	EnergySolutions, Clive, UT	1	12,356
019694949JJK	10/1/2020	EnergySolutions, Clive, UT	1	15,640
019694962JJK	10/6/2020	EnergySolutions, Clive, UT	1	11,285
019694963JJK	10/6/2020	EnergySolutions, Clive, UT	1	11,095
019694964JJK	10/6/2020	EnergySolutions, Clive, UT	1	12,310
019694965JJK	10/6/2020	EnergySolutions, Clive, UT	1	14,288
019694968JJK	10/19/2020	EnergySolutions, Clive, UT	1	768
019694971JJK	10/20/2020	EnergySolutions, Clive, UT	2	79
019694972JJK	10/20/2020	EnergySolutions, Clive, UT	1	192

Table 1.1. PCB Waste Manifests Summary (Continued)

UHWM Number	Date Shipped	Shipment Destination	Number of PCB Containers	Weight from UHWM (kg)^{1,2}
019694974JJK	10/13/2020	EnergySolutions, Clive, UT	1	14,143
019694975JJK	10/13/2020	EnergySolutions, Clive, UT	1	12,247
019694976JJK	10/13/2020	EnergySolutions, Clive, UT	1	15,694
019694977JJK	10/13/2020	EnergySolutions, Clive, UT	1	14,760
019694978JJK	10/13/2020	EnergySolutions, Clive, UT	1	9,163
019694979JJK	10/13/2020	EnergySolutions, Clive, UT	1	15,186
019694980JJK	10/13/2020	EnergySolutions, Clive, UT	1	15,286
019694981JJK	10/13/2020	EnergySolutions, Clive, UT	1	10,414
019694982JJK	10/13/2020	EnergySolutions, Clive, UT	1	12,519
019694983JJK	10/13/2020	EnergySolutions, Clive, UT	1	14,333
019694984JJK	10/13/2020	EnergySolutions, Clive, UT	1	16,093
019694985JJK	10/13/2020	EnergySolutions, Clive, UT	1	15,241
019694986JJK	10/13/2020	EnergySolutions, Clive, UT	1	12,782
019694987JJK	10/13/2020	EnergySolutions, Clive, UT	1	16,080
019694988JJK	10/13/2020	EnergySolutions, Clive, UT	1	12,848
019694989JJK	10/13/2020	EnergySolutions, Clive, UT	1	13,238
019694990JJK	10/22/2020	EnergySolutions, Clive, UT	1	15,064
019694991JJK	10/22/2020	EnergySolutions, Clive, UT	1	17,413
019694992JJK	10/22/2020	EnergySolutions, Clive, UT	1	14,356
019694993JJK	10/22/2020	EnergySolutions, Clive, UT	1	13,422
019694994JJK	10/22/2020	EnergySolutions, Clive, UT	1	16,923
019694995JJK	10/22/2020	EnergySolutions, Clive, UT	1	11,753
019695015JJK	11/10/2020	EnergySolutions, Clive, UT	1	7,802
Total UHWM: 76			88	862,571

¹ The weights in kg were taken from the UHWMs, which may differ from IWTS weights shown in Table D.4.

² Due to rounding, the weight totals may vary.

Table 1.2. PCB/RCRA Waste Stream LDR Manifests Summary

Characterization Package	LDR Date	Manifest
PAD-WD-0598-R6-V14	2/18/2020	019694786JJK*
PAD-WD-0598-R6-V14	2/18/2020	019694796JJK
PAD-WD-0598-R6-V14	2/18/2020	019694797JJK
PAD-WD-0598-R6-V14	2/18/2020	019694798JJK
PAD-WD-0598-R6-V14	2/18/2020	019694809JJK
PAD-WD-0598-R6-V14	2/18/2020	019694810JJK
PAD-WD-0598-R6-V14	2/18/2020	019694819JJK
PAD-WD-0598-R6-V14	2/18/2020	019694820JJK
PAD-WD-0598-R6-V14	2/18/2020	019694821JJK
PAD-WD-0598-R6-V14	2/18/2020	019694822JJK
PAD-WD-0598-R6-V14	2/18/2020	019694823JJK
PAD-WD-0598-R6-V14	2/18/2020	019694824JJK
PAD-WD-0598-R6-V14	2/18/2020	019694825JJK
PAD-WD-0598-R6-V14	2/18/2020	019694838JJK
PAD-WD-0598-R6-V14	2/18/2020	019694839JJK
PAD-WD-0598-R7-V3	3/17/2020	019694840JJK*
PAD-WD-0598-R7-V3	3/17/2020	019694841JJK
PAD-WD-0598-R7-V3	3/17/2020	019694846JJK
PAD-WD-0598-R7-V3	3/17/2020	019694847JJK
PAD-WD-0598-R7-V3	3/17/2020	019694848JJK
PAD-WD-0598-R7-V3	3/17/2020	019694849JJK
PAD-WD-0598-R7-V3	3/17/2020	019694850JJK
PAD-WD-0598-R7-V3	3/17/2020	019694851JJK
PAD-WD-0598-R7-V3	3/17/2020	019694852JJK
PAD-WD-0598-R7-V3	3/17/2020	019694899JJK
PAD-WD-0598-R7-V3	3/17/2020	019694900JJK
PAD-WD-0598-R7-V3	3/17/2020	019694901JJK
PAD-WD-0598-R7-V3	3/17/2020	019694902JJK
PAD-WD-0598-R7-V3	3/17/2020	019694905JJK
PAD-WD-0598-R7-V3	3/17/2020	019694906JJK
PAD-WD-0598-R7-V3	3/17/2020	019694907JJK
PAD-WD-0598-R7-V3	3/17/2020	019694908JJK
PAD-WD-0598-R7-V3	3/17/2020	019694938JJK
PAD-WD-0598-R7-V3	3/17/2020	019694939JJK
PAD-WD-0598-R7-V3	3/17/2020	019694944JJK
PAD-WD-0598-R7-V3	3/17/2020	019694945JJK
PAD-WD-0598-R7-V3	3/17/2020	019694946JJK
PAD-WD-0598-R7-V3	3/17/2020	019694947JJK
PAD-WD-0598-R7-V3	3/17/2020	019694948JJK
PAD-WD-0598-R7-V3	3/17/2020	019694949JJK
PAD-WD-0598-R7-V9	9/24/2020	019694962JJK*
PAD-WD-0598-R7-V9	9/24/2020	019694963JJK
PAD-WD-0598-R7-V9	9/24/2020	019694964JJK
PAD-WD-0598-R7-V9	9/24/2020	019694965JJK
PAD-WD-0598-R7-V9	9/24/2020	019694974JJK
PAD-WD-0598-R7-V9	9/24/2020	019694975JJK
PAD-WD-0598-R7-V9	9/24/2020	019694976JJK
PAD-WD-0598-R7-V9	9/24/2020	019694977JJK
PAD-WD-0598-R7-V9	9/24/2020	019694978JJK
PAD-WD-0598-R7-V9	9/24/2020	019694979JJK
PAD-WD-0598-R7-V9	9/24/2020	019694980JJK
PAD-WD-0598-R7-V9	9/24/2020	019694981JJK

Table 1.2. PCB/RCRA Waste Stream LDR Manifests Summary (Continued)

Characterization Package	LDR Date	Manifest
PAD-WD-0598-R7-V9	9/24/2020	019694982JJK
PAD-WD-0598-R7-V9	9/24/2020	019694983JJK
PAD-WD-0598-R7-V9	9/24/2020	019694984JJK
PAD-WD-0598-R7-V9	9/24/2020	019694985JJK
PAD-WD-0598-R7-V9	9/24/2020	019694986JJK
PAD-WD-0598-R7-V9	9/24/2020	019694987JJK
PAD-WD-0598-R7-V9	9/24/2020	019694988JJK
PAD-WD-0598-R7-V9	9/24/2020	019694989JJK
PAD-WD-0598-R7-V9	9/24/2020	019694990JJK
PAD-WD-0598-R7-V9	9/24/2020	019694991JJK
PAD-WD-0598-R7-V9	9/24/2020	019694992JJK
PAD-WD-0598-R7-V9	9/24/2020	019694993JJK
PAD-WD-0598-R7-V9	9/24/2020	019694994JJK
PAD-WD-0598-R7-V9	9/24/2020	019694995JJK
PAD-WD-0598-R7-V9	9/24/2020	019695015JJK

*LDR included for review.

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-five CDs were received in 2020 from the following facilities:

- Energy*Solutions* disposal facility in Clive, UT;
- Clean Harbors Deer Park disposal facility in LaPorte, TX;
- Diversified Scientific Services, LLC, (DSSI) Perma-Fix facility in Kingston, TN; and
- Waste Control Specialist facility in Andrews, TX.

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 2020 was for waste shipped in 2020, the manifests are shown in Table 1.1 and Appendix A. Due to inaccurate manifest numbers being reported by the TSDF on pages B-17 and B-26, new CDs had to be requested. The corrected CDs for the manifests were not received until after January 1, 2021. Accordingly, the erroneous numbers have been single lined, initialled, and dated to show the correction.

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) ¹	Date of Disposal	Date CD Received
013496416FLE	3/12/2019	5/28/2019	Clean Harbors Deer Park, LaPorte, TX	1	168	8/20/2019	4/7/2020
013496416FLE	3/20/2019	5/28/2019	Clean Harbors Deer Park, LaPorte, TX	1	177	7/22/2019	4/7/2020
013496416FLE	3/28/2019	5/28/2019	Clean Harbors Deer Park, LaPorte, TX	1	177	7/22/2019	4/7/2020
013496416FLE	4/3/2019	5/28/2019	Clean Harbors Deer Park, LaPorte, TX	1	173	7/22/2019	4/7/2020
013496416FLE	4/15/2019	5/28/2019	Clean Harbors Deer Park, LaPorte, TX	1	161	8/16/2019	4/7/2020
013496416FLE	4/23/2019	5/28/2019	Clean Harbors Deer Park, LaPorte, TX	1	169	7/22/2019	4/7/2020
013496416FLE	4/23/2019	5/28/2019	Clean Harbors Deer Park, LaPorte, TX	1	171	8/16/2019	4/7/2020
013496416FLE	5/5/2019	5/28/2019	Clean Harbors Deer Park, LaPorte, TX	1	170	8/15/2019	4/7/2020
013496416FLE	5/6/2019	5/28/2019	Clean Harbors Deer Park, LaPorte, TX	1	45	9/6/2019	4/7/2020
019694567JJK	10/10/2017	2/27/2019	DSSI, Inc., Kingston, TN	1	191	12/10/2019	1/8/2020
019694567JJK	6/13/2018	2/27/2019	DSSI, Inc., Kingston, TN	1	177	12/10/2019	1/8/2020
019694567JJK	9/25/2018	2/27/2019	DSSI, Inc., Kingston, TN	1	200	12/10/2019	1/8/2020
019694567JJK	11/1/2018	2/27/2019	DSSI, Inc., Kingston, TN	1	204	12/10/2019	1/8/2020
019694647JJK	2/13/2019	8/21/2019	DSSI, Inc., Kingston, TN	1	186	1/30/2020	2/5/2020
019694647JJK	4/17/2019	8/21/2019	DSSI, Inc., Kingston, TN	1	194	1/30/2020	2/5/2020
019694693JJK	11/7/2018	10/31/2019	EnergySolutions , Clive, UT	1	12	11/12/2019	1/31/2020
019694693JJK	1/24/2019	10/31/2019	EnergySolutions , Clive, UT	1	19	11/12/2019	1/31/2020
019694693JJK	3/6/2019	10/31/2019	EnergySolutions , Clive, UT	1	32	11/12/2019	1/31/2020
019694693JJK	3/14/2019	10/31/2019	EnergySolutions , Clive, UT	1	28	11/12/2019	1/31/2020
019694693JJK	5/9/2019	10/31/2019	EnergySolutions , Clive, UT	1	27	11/12/2019	1/31/2020
019694703JJK	9/27/2018	9/25/2019	DSSI, Inc., Kingston, TN	1	3	9/30/2020	10/12/2020
019694743JJK	7/25/2019	12/16/2019	EnergySolutions , Clive, UT	1	25	4/9/2020	4/27/2020
019694786JJK	2/14/2020	2/18/2020	EnergySolutions , Clive, UT	1	15,309	6/22/2020	6/26/2020
019694796JJK	2/13/2020	2/24/2020	EnergySolutions , Clive, UT	1	11,553	4/9/2020	4/27/2020
019694797JJK	2/13/2020	2/24/2020	EnergySolutions , Clive, UT	1	13,830	6/22/2020	6/26/2020
019694798JJK	2/13/2020	2/24/2020	EnergySolutions , Clive, UT	1	13,703	4/9/2020	4/27/2020
019694808JJK	4/3/2019	2/28/2020	Waste Control Specialist, Andrews, TX	1	607	3/18/2020	3/19/2020
019694809JJK	2/14/2020	2/28/2020	EnergySolutions , Clive, UT	1	15,508	6/4/2020	6/17/2020
019694810JJK	2/14/2020	2/28/2020	EnergySolutions , Clive, UT	1	12,360	6/11/2020	6/17/2020
019694819JJK	2/19/2020	3/5/2020	EnergySolution s, Clive, UT	1	11,108	6/15/2020	6/17/2020
019694820JJK	2/19/2020	3/5/2020	EnergySolutions , Clive, UT	1	11,988	6/18/2020	6/23/2020
019694821JJK	2/19/2020	3/5/2020	EnergySolutions , Clive, UT	1	13,512	6/8/2020	6/17/2020
019694822JJK	2/19/2020	3/12/2020	EnergySolutions , Clive, UT	1	14,220	6/11/2020	6/17/2020
019694823JJK	2/19/2020	3/12/2020	EnergySolutions , Clive, UT	1	10,936	6/4/2020	6/17/2020
019694824JJK	2/21/2020	3/12/2020	EnergySolutions , Clive, UT	1	13,231	6/8/2020	6/17/2020
019694825JJK	2/21/2020	3/12/2020	EnergySolutions , Clive, UT	1	13,966	6/4/2020	6/17/2020
019694838JJK	2/21/2020	3/19/2020	EnergySolutions , Clive, UT	1	13,340	6/8/2020	6/17/2020
019694839JJK	2/21/2020	3/19/2020	EnergySolutions , Clive, UT	1	13,440	6/8/2020	6/17/2020

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 2020. 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., RCRA storage facility inspections, waste facility inventory inspections, facility operations daily rounds) performed in the facilities where the affected PCB waste containers are stored. Any containers, including PCB containers, found to have deficiencies during these supplemental inspections are documented and reported. When necessary, this supplemental information is compiled and maintained with the site PCB storage area inspection records.

Table 3.1. PCB Waste Storage Areas at the Paducah Site

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

^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-333-18 was opened on December 19, 2019.

^c30DAA-400-01 was opened on December 16, 2020.

^d30DAA-411A-01 was opened on February 6, 2020.

^e30DAA-759-01 was opened on October 6, 2020.

THIS PAGE INTENTIONALLY LEFT BLANK

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 2020, there are no records.

THIS PAGE INTENTIONALLY LEFT BLANK

5. PCB ELECTRICAL EQUIPMENT IN SERVICE

No PCB (≥ 500 ppm) transformers or PCB (≥ 500 ppm) large capacitors were in service at the Paducah Site as of December 31, 2020, which is summarized in Table 5.1. In addition, no PCB transformers or PCB large capacitors were removed from service in CY 2020. Sixty-seven PCB transformers were removed from service, drained, and flushed during 2015. They were stored in place in C-337 during CY 2020. Residual flushate was removed over time as it drained through and collected in the units.

There are no CY 2020 PCB transformer maintenance records because there was no maintenance performed on these transformers, and the transformers currently are not in service.

**Table 5.1. PCB Electrical Equipment in Service
as of December 31, 2020**

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

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

THIS PAGE INTENTIONALLY LEFT BLANK

6. PCB WASTE ACTIVITY

PCB waste activities performed by the facility during the CY 2020 are annual records required by 40 *CFR* § 761.180 (a)(2)(iii). The PCB Waste Activity Summary for CY 2020 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, 2019, has been adjusted from the “PCB Waste Inventory as of December 31, 2019,” reported as Table 10.9 of the *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2019—December 31, 2019*, FRNP-RPT-0148. The net changes to the January 1, 2020, beginning inventory include adjustments because of in-process collection containers at the time of the 2019 inventory, information received after the 2019 report submittal, and/or weight corrections. The detailed listing of the December 31, 2019, corrections and adjustments is provided in Appendix D, Table D.1.

The detailed listing of PCB waste generated during CY 2020 is provided in Appendix D, Table D.2.

The detailed listing of the adjustments to the CY 2020 PCB inventory is provided in Appendix D, Table D.3.

The detailed listing of the PCB waste shipped in CY 2020 is provided in Appendix D, Table D.4.

The detailed listing of the PCB waste inventory as of December 31, 2020, is provided in Appendix D, Table D.5.

There was no PCB waste received from off-site facilities in CY 2020.

Table 6.1. PCB Waste Activity Summary for CY 2020

PCB Waste Items In Inventory	12/31/2019 Inventory		Corrections and Adjustments to Beginning Inventory ^a		1/1/2020 Inventory		Generated		Corrections to 2020 Inventory ^b		Shipped for Disposal		12/31/2020 Inventory	
	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>	<i>pc</i>	<i>kg</i>
ARTICLES	2	32,795	0	0	2	32,795	0	0	0	0	0	0	2	32,795
<i>PCB Transformers (drained)</i>	2	32,795	0	0	2	32,795	0	0	0	0	0	0	2	32,795
ARTICLE CONTAINERS^c	2	1,018	0	2	2	1,021	3	1,418	0	0	4	2,416	1	23
<i>Large Capacitors</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Light Ballasts</i>	1	46	0	2	1	48	2	86	0	0	2	112	1	23
<i>Misc. Equip. (motors, pumps, etc.)</i>	1	973	0	0	1	973	1	1,332	0	0	2	2,304	0	0
CONTAINERS	14	2,390	0	52	14	2,441	91	1,148,933	-4	-17,986	84	1,099,482	17	33,907
<i>Liquids^d</i>	6	1,246	0	0	6	1,246	7	1,492	-2	-377	7	1,463	4	897
<i>Solids</i>	8	1,144	0	52	8	1,196	84	1,147,441	-2	-17,608	77	1,098,018	13	33,010
BULK PCB REMEDIATION WASTE SOLIDS < 49 MG/Kg^e	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL^f	18	36,203	0	54	18	36,257	94	1,150,351	-4	-17,986	88	1,101,898	20	66,725

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

^aThe Corrections and Adjustments to Beginning Inventory column includes adjustments because of in-process collection containers at time of 2019 inventory, information received after the 2019 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.

^bThe Adjustments to 2020 Inventory column includes adjustments due to repackaging of wastes or waste was recategorized after sampling during time of 2020 inventory. Weights reported in this summary include the weight of the container (drum/box), except for tanks/tankers.

^cArticle 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 2020 PCB Waste Shipment Receipt Log

Shipment ID	Actual Ship Date	Shipment Destination	UHMW #	Comments / Notes	Date Manifest Received	Comments for Manifest Inquiries and Requests	Waste Cat	Confirmation email received from TSDF
9750-01-0009	2/18/2020	EnergySolutions , Clive, UT	019694786JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	2/24/2020		RCRA/TSCA Mixed (RTM)	Received email notification from A. Evans on 2-21-2020 that waste has been received.
9750-01-0010	2/21/2020	EnergySolutions , Clive, UT	019694796JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	2/28/2020		RTM	Received email notification from A. Evans on 2-28-2020 that waste has been received.
9750-01-0011	2/21/2020	EnergySolutions , Clive, UT	019694797JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	2/28/2020		RTM	Received email notification from A. Evans on 2-28-2020 that waste has been received.
9750-01-0012	2/21/2020	EnergySolutions , Clive, UT	019694798JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	2/28/2020		RTM	Received email notification from A. Evans on 2-28-2020 that waste has been received.
9750-01-0013	2/28/2020	EnergySolutions , Clive, UT	019694809JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/3/2020		RTM	Received receipt acknowledgment email on 3/3/2020
9750-01-0014	2/28/2020	EnergySolutions , Clive, UT	019694810JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/3/2020		RTM	Received receipt acknowledgment email on 3/3/2020
WCS-8931-0001	2/28/2020	Waste Control Specialist, Andrews, TX	019694808JJK	(1) ST-90 of TSCA/MLLW, (3) ST-90s and (2) Drums of MLLW	3/2/2020		RTM	Received email notification from Marlow Hayden on 2-28-2020 that waste has been received.
9750-01-0015	3/5/2020	EnergySolutions , Clive, UT	019694819JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/10/2020		RTM	Received receipt acknowledgment email on 3/10/2020
9750-01-0016	3/5/2020	EnergySolutions , Clive, UT	019694820JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/10/2020		RTM	Received receipt acknowledgment email on 3/10/2020
9750-01-0017	3/5/2020	EnergySolutions , Clive, UT	019694821JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/10/2020		RTM	Received receipt acknowledgment email on 3/10/2020
9750-01-0018	3/12/2020	EnergySolutions , Clive, UT	019694822JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/16/2020		RTM	Received receipt acknowledgment email on 3/16/2020
9750-01-0019	3/12/2020	EnergySolutions , Clive, UT	019694823JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/16/2020		RTM	Received receipt acknowledgment email on 3/16/2020
9750-01-0020	3/12/2020	EnergySolutions , Clive, UT	019694824JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/16/2020		RTM	Received receipt acknowledgment email on 3/16/2020
9750-01-0021	3/12/2020	EnergySolutions , Clive, UT	019694825JJK	(1) Intermodal of TSCA/MLLW (Chromic Acid Tank Debris)	3/16/2020		RTM	Received receipt acknowledgment email on 3/16/2020

APPENDIX A
PCB WASTE MANIFESTS

THIS PAGE INTENTIONALLY LEFT BLANK

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694786 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5544			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053				
6. Transporter 1 Company Name CAST Transportation			U.S. EPA ID Number COR000005389				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155			U.S. EPA ID Number UTD982598898				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	RQ	1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3858	1	CM	15308	K	D007
		2. MBu, Fissile Excepted					
		3.					
		4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are generators pursuant to a Co-Generator agreement dated September 30, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM00055, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM00055.					
14. Special Handling Instructions and Additional Information Truck: 1404 Trailer OTR77 TID: N/A Accumulation Start Date: 02/14/20 PCB Start Date: 02/19/20 ERG # 102 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info Shipment ID: 9750-01-0009							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (I am a large quantity generator) or (b) (I am a small quantity generator) is true.							
Generator's/Offero's Printed/Typed Name: Regina Pea on behalf of FRNP Signature: Regina Pea Month: 02 Day: 18 Year: 20							
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: MERRE J. LEOPOLD Signature: [Signature] Month: 2 Day: 18 Year: 20							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number: RECEIVED FEB 24 2020							
18c. Signature of Alternate Facility (or Generator) BY: [Signature] Month: Day: Year:							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest, except as noted in Item 18a Printed/Typed Name: Todd Stewart Signature: [Signature] Month: 2 Day: 21 Year: 20							

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694786JJK

Shipment ID Number: 9750-01-0009

Shipment Date: 2/18/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-04	PAD20C44022	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/14/20	02/14/20	670	41,640	18,887	33,750	15,309	3,856
Totals			1				670	41,640	18,887	33,750	15,309	3,856

A-4

9750-01-0009

122023-04

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No.: 019694786 JSK

Profile No.: 9750-01 State Manifest No.: N/A

- 1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater [] Wastewater [X]
2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory.

Table with 5 columns: REF #, 3. USEPA HAZARDOUS WASTE CODE(S), 4. SUBCATEGORY (DESCRIPTION), NONE, 5. HOW MUST THE WASTE BE MANAGED? (ENTER LETTER FROM BELOW). Row 1: 1, D007, Chromium, [X], A.

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

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below.

- A. RESTRICTED WASTE REQUIRES TREATMENT
B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
C. RESTRICTED WASTE SUBJECT TO A VARIANCE
D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

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

Signature [Handwritten Signature] Title Waste Engineer Date 02/18/2020

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

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

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

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

SUBCATEGORY REFERENCE

D001:

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

D002:

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

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP

Manifest Doc. No.: 019694786JJK

Profile No.: 9750-01

State Manifest No.: N/A

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

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

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

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 [Signature]
Title Waste Engineer

Date 02/18/2020

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019694786 JJK

Profile No.: 9750-01 State Manifest No.: N/A

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

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

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

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 [Signature] Date 02/18/2020
Title Waste Engineer

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

Generator Name: FRNP

Manifest Doc. No.: 019694786JJK

Profile No.: 9750-01

State Manifest No.: NA

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

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

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

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

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

Please print or type.

Form Approved. OMB No. 2050-0039

17-0515-03 03992

Prepared by J. J. NELSON & ASSOCIATES, INC., NEENAH, WI • USA • (909) 467-0888 • jnelson.com • Printed in the United States

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694796 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5544				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053					
6. Transporter 1 Company Name CAST Transportation				U.S. EPA ID Number COR000005389					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1.	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 2B10		1		CM	11553	K	D007
	2.	MBO: Fissile Exceeded							
	3.								
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.									
14. Special Handling Instructions and Additional Information Truck: 1427 Trailer OTR28 TID: N/A Accumulation Start Date: 02/13/2020 PCB Start Date: 02/13/20 ERG # 182 In the event of an RQ Release, call 1-800-424-8802 Ap 03/31/2021 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info Shipment ID: 9750-01-0010									
15. GENERATOR/SHOFFER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Regina Pea on behalf of FRNP		Signature Regina Pea		Month Day Year 02 24 20					
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: JAY A WILLIAMS Signature: Jay A Williams Month Day Year: 02 24 20 Transporter 2 Printed/Typed Name: Signature: Month Day Year:									
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H32 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Albert Evans Signature: Albert Evans Month Day Year: 2 27 20									

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694796JJK

Shipment ID Number: 9750-01-0010

Shipment Date: 2/24/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-01	PAD20C44014	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/13/20	02/13/20	650	33,360	15,132	25,470	11,553	2,910
		Totals	1				650	33,360	15,132	25,470	11,553	2,910

A-13

1177-BL-U-C 201902
 Published by J. J. KELLEN & ASSOCIATES, INC., Washfield, VT • USA • (800) 367-9900 • jkellen.com • Printed in the United States

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694797 JJK	
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053			
Generator's Phone: 270-441-5544			U.S. EPA ID Number COR000005389			
6. Transporter 1 Company Name CAST Transportation			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84028			U.S. EPA ID Number UTD982598898			
Facility's Phone: 1-435-884-0155			U.S. EPA ID Number			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt/Vol	13. Waste Codes
RQ	1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3483	1	CM	13830	K	D007
	2. MBO: Fissile Exceeded					
	3.					
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004855, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004855.						
14. Special Handling Instructions and Additional Information Truck: 1404 Trailer OTR96 TID: N/A Accumulation Start Date: 02/13/20 PCB Start Date: 02/13/20 ERG # 182 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9750-01-0011						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name <i>Regina Rea on behalf of FRNP</i>					Signature <i>Regina Rea</i>	
					Month Day Year <i>10 24 20</i>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <i>MIKE VILLOTTI</i>					Signature <i>[Signature]</i>	
					Month Day Year <i>2 24 20</i>	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____						
18c. Signature of Alternate Facility (or Generator) BY: <i>[Signature]</i> Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. <i>H132</i>		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name <i>Albert Sims</i>					Signature <i>[Signature]</i>	
					Month Day Year <i>2 27 20</i>	

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694797JJK

Shipment ID Number: 9750-01-0011

Shipment Date: 2/24/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-02	PAD20C44019	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/13/20	02/13/20	640	38,380	17,409	30,490	13,830	3,483
		Totals	1				640	38,380	17,409	30,490	13,830	3,483

A-15

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694798 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5544			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053					
6. Transporter 1 Company Name CAST Transportation				U.S. EPA ID Number COR000005389				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	RQ	1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3451	1	CM	13703	K	D007	
		2. MBO: Fissile Exceeded						
		3.						
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 15, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>								
<p>14. Special Handling Instructions and Additional Information Truck: 1453 Trailer OTR93 TID: N/A Accumulation Start Date: 02/13/20 PCB Start Date: 02/13/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9750-01-0012</p>								
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's/Offeror's Printed/Typed Name Regina Pea on behalf of FRNP		Signature Regina Pea		Month Day Year 02 24 20				
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>								
<p>17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Justin M Bone Signature: [Signature] Month Day Year: 2 24 20 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____</p>								
<p>18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p>								
<p>18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____ Facility's Phone: _____</p>								
<p>18c. Signature of Alternate Facility (or Generator) BY: [Signature] Month Day Year: _____</p>								
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p>								
1. H132		2.		3.		4.		
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Alberta Enns Signature: [Signature] Month Day Year: 2 27 20</p>								

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

T77-BL-U-5 5546Z

GENERATOR INTL TRANSPORTER DESIGNATED FACILITY

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694798JJK

Shipment ID Number: 9750-01-0012

Shipment Date: 2/24/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-03	PAD20C44020	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/13/20	02/13/20	660	38,100	17,282	30,210	13,703	3,451
Totals			1				660	38,100	17,282	30,210	13,703	3,451

A-17

Please print

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 880008862	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6833	4. Manifest Tracking Number 019694808 JJK			
5. Generator Name and Mailing Address Four Rivers Nuclear Partnership, LLC. (FRNP) 5511 Hobbs Road, Kevl, KY 42053		Generator Site Address (if different than mailing address) Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevl, KY 42053						
Generator's Phone:								
6. Transporter 1 Company Name Interspace Ventures, Inc.				U.S. EPA ID Number TNR00084678				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address Waste Control Specialist, TSDF 9928 Highway 178 West Andrews, TX 79714 1-432-525-8500		U.S. EPA ID Number TX0888088464						
Facility's Phone:								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
			No.	Type				
	RQ	1. UN 2913, Waste, Radioactive material, surface contaminated objects (SCO-I), 7, Np-237, Tc-99, Th-230, U-234, (D008, D008), 1189 MBq, Flammable Excepted, (WP-8831)	1	CM	738	K	D008 D008 D008 OUT810H	
	RQ	2. UN 2913, Waste, Radioactive material, surface contaminated objects (SCO-I), 7, Np-237, Tc-99, Th-230, U-234, (PCB, D008), 820 MBq, Flammable Excepted (WP-8831)	1	CM	607	K	D008 OUT810H	
	RQ	3. UN 2913, Waste, Radioactive material, surface contaminated objects (SCO-I), 7, Np-237, Tc-99, Th-230, U-234, (D008), 2853 MBq, Flammable Excepted (WP-8831)	2	CM	2464	K	D008 OUT810H	
RQ	4. UN 2913, Waste, Radioactive material, surface contaminated objects (SCO-I), 7, Np-237, Tc-99, Th-230, U-234, (D008), 28 MBq, Flammable Excepted (WP-8831)	2	DM	67	K	D008 OUT810H		
14. Special Handling Instructions and Additional Information Truck #112 Trailer: 247781 Accumulation Start Date: 04/03/19 PCB Date to Storage: 04/03/19 ER3 # 102 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See PCB Attachment for Additional Info Shipment ID: WCS-8831-0001								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name Leah Telfair on behalf of FRNP Signature: <i>Leah Telfair</i> Month: 12 Day: 28 Year: 20								
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
DESIGNATED FACILITY	Transporter 1 Printed/Typed Name Kenny Hawk JR Signature: <i>Kenny Hawk JR</i> Month: 12 Day: 08 Year: 2020				Transporter 2 Printed/Typed Name Signature: _____ Month: _____ Day: _____ Year: _____			
	18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator)				Manifest Reference Number: _____ U.S. EPA ID Number: _____				
Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2. H132		3. H132		4. H132		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name M. Hayden Signature: <i>M. Hayden</i> Month: 13 Day: 2 Year: 20								

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694808 JJK

Shipment ID Number: WCS-8931-0001

Shipment Date: 2/28/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Storage Date	PCB Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	Maximum Activity MBq	Net Wt (lb)	Net Wt (Kg)
9b.1	121767	121767-03	PAD19C43200	RCRA ITEMS (FUSES, CAPACITORS, CIRCUITS, ETC)	09/19/19	N/A	39	2326	1055.05	1196	1626	738
9b.2	121546	121546-04	PAD19C42190	PCB/LEAD CABLE AND POTHEAD	04/03/19	04/03/19	30	2144	972.50	920	1338	607
9b.3	121849	121849-01	PAD19C42911	FIRE WATER PIPE AND VALVES	06/18/19	N/A	45	3588	1627.48	1380	2781	1261
9b.3	121849	121849-02	PAD19C42912	FIRE WATER PIPE AND VALVES	06/18/19	N/A	48	3456	1567.61	1473	2651	1202
9b.4	121977	121977-02	PAD19C43634	BATTERY CONNECTING LINKS (LEAD COATED BRASS) 60 UNITS (6" X 2" X 1/2")	12/09/19	N/A	0.3	78	35.38	9	66	30
9b.4	121977	121977-01	PAD19C43633	BATTERY CONNECTING LINKS (LEAD COATED BRASS) 60 UNITS (6" X 2" X 1/2")	12/09/19	N/A	0.6	94	42.64	18	82	37
			Totals	6			162.9	11686	5301	4997	8544	3875

61-V

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.

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership (FRNP) Manifest Doc. No.: 019694808JJK
 Profile No.: WR-8831 (R2) 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.

ID#	USEPA HAZARDOUS WASTE CODE(S)	SUBCATEGORY (ENTER THE SUBCATEGORY DESCRIPTION IF NOT APPLICABLE, SIMPLY CHECK NONE)	HOW IS THE WASTE MANAGED?	
			NAME	ENTER LETTER FROM BELOW
1	D008	Lead	<input checked="" type="checkbox"/>	A
2			<input type="checkbox"/>	
3			<input type="checkbox"/>	
4			<input type="checkbox"/>	

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

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

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

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

Signature: [Signature] Title: Waste Engineer Date: 01/29/2020

Form A1
Page 1 of 2

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

Spent Solvent Constituents and their associated USEPA Hazardous Waste Codes	SOLVENT WASTE TREATMENT STANDARDS				
	Soil Treatment Standards		40 CFR 261.21(a)(1) High TOC Subcategory	Treatment Standard	
	Wastewater	Nonwastewater		Wastewater	Nonwastewater
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 BICODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2-trifluoroethane (F002)	0.057	30
Isobutanol (Isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p- isomers) (F003)	0.32	30

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

SUBCATEGORY REFERENCE

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

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 01969480835K

Profile No.: WP-8931 (R2) State Manifest No.: NA

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

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

WASTE NUMBER	USEPA HAZARDOUS WASTE CODES	SUBCATEGORY	DESCRIPTION	MANAGEMENT	DATE
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					

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

Signature [Signature] Date 01/29/2020
 Title Waste Engineer

Form A2
Page 1 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019694808 JJK
 Profile No.: WP-8931 (R2) State Manifest No.: NA

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

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

WASTE NUMBER	USEPA HAZARDOUS WASTE CODE(S)	DESCRIPTION	SUBCATEGORY	MANAGEMENT	REMARKS
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					

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

Signature: [Signature] Date: 01/29/2020
 Title: Waste Engineer

Form A2
Page 2 of 2

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

Generator Name: FRNP Manifest Doc. No.: 019694808 JJK
 Profile No.: (LP - 2931 (K2)) State Manifest No.: NA

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

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

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-Dimethylaminobenzene	←	0.13 ¹	NA
2,4-Dimethyl phenol		0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate		0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate		0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	NA
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.056 ¹	1.4 ¹
2,6-Dinitrotoluene		0.55	28	Mexacarbate		0.056 ¹	1.4 ¹
Di-n-octyl phthalate		0.017	28	Mollinate		0.042 ¹	1.4 ¹
Di-n-propylnitrosamine		0.40	14	Naphthalene		0.059	5.6
1,4-Dioxane		12.0	170	2-Naphthylamine		0.52	NA
Diphenylamine ³		0.92	13 ¹	o-Nitroaniline		0.27 ¹	14 ¹
Diphenylnitrosamine ³		0.92	13 ¹	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine		0.087	NA	Nitrobenzene		0.068	14
Disulfoton		0.017	6.2	5-Nitro-o-toluidine		0.32	28
Dithiocarbamates (total)		0.028	28 ¹	o-Nitrophenol		0.028 ¹	13 ¹
Endosulfan I		0.023	0.066	p-Nitrophenol		0.12	29
Endosulfan II		0.029	0.13	N-Nitrosodimethylamine		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-Nitrosomethylamine		0.40	2.3
EPTC		0.042 ¹	1.4 ¹	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate		0.34	33	N-Nitrosopyrrolidine		0.013	35
Ethyl benzene		0.057	10	Oxaryl		0.013	35
Ethyl cyanide/Propanenitrile		0.24	360	Parathion		0.056 ¹	0.28 ¹
Ethyl ether		0.12	160	Total PCBs (sum of all PCB isomers or all Aroclors)		0.014	4.6
Bis(2-Ethylhexyl)phthalate		0.28	28	Pabulate		0.10	10
Ethyl methacrylate		0.14	160	Pentachlorobenzene		0.042 ¹	1.4 ¹
Ethylene oxide		0.12	NA	Pentachlorodibenzo-p-dioxins		0.055 ¹	10 ¹
Famphur		0.017	15	PeCDFs (All Pentachlorodibenzofurans)		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
Fometanate hydrochloride		0.056 ¹	1.4 ¹	Pentachloronitrobenzene		0.055	4.8
Heptachlor		0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide		0.016	0.066	Phenacetyl		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene		0.055	5.6	Phenol		0.039	6.2
Hexachlorocyclopentadiene		0.057	2.4	Phorate		0.021	4.6
HxCDDs (All Hexachlorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid		0.055 ¹	28 ¹
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride		0.055	28 ¹
Hexachloroethane		0.055	30	Physostigmine		0.056 ¹	1.4 ¹
Hexachloropropylene		0.035	30	Physostigmine salicylate		0.056 ¹	1.4 ¹
Indeno(1,2,3-c,d)pyrene		0.0055	3.4	Promecarb		0.056 ¹	1.4 ¹
Iodomethane		0.19	65	Pronamide		0.093	1.5
Isobutyl alcohol		5.6	170	Propapham		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
Kepon		0.0011	0.13	Pyrene		0.067	8.2
Methacrylonitrile		0.24	84	Pyridine		0.014	16
Methanol		5.6	0.75 mg/l ¹	Safrole		0.081	22
Methapyrilene		0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb		0.056 ¹	1.4 ¹	1,2,4,5-Tetrachlorobenzene		0.055	14
Methomyl		0.028 ¹	0.14 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor		0.25	0.18	TCDFs (All Tetrachlorodibenzofurans)		0.000063	0.001
3-Methylcholanthrene		0.0055	15	1,1,1,2-Tetrachloroethane		0.057	6.0
4,4'-Methylene bis(2-chloroaniline)	→	0.50	30	1,1,2,2-Tetrachloroethane	→	0.057	6.0

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene	←	0.066	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony	←	1.9	2.1 mg/l TCLP
Thiodicarb		0.0191	1.4 ¹	Antimony		1.9	1.15 mg/l TCLP ⁴
Thiophanate-methyl		0.0561	1.4 ¹	Arsenic		1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l TCLP ⁴
Triallate		0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP ⁴
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86 mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP ⁴
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	690
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
2,4,6-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l ⁴ TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate		0.11	0.10 ¹	Nickel		3.98	11 mg/l TCLP ⁴
Vemolate		0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride		0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ²
Xylenes - mixed isomers (sum of o-m- and p-xylene)	→	0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
				Thallium		1.4	0.078 mg/l TCLP ⁴
				Thallium		1.4	0.20 mg/l TCLP ⁴
				Vanadium		4.3 ²	1.6 mg/l TCLP ²
				Zinc	→	2.61	4.3 mg/l TCLP ²

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008962	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694809 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6611 Hobbs Road, Kevl, KY 42063			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6611 Hobbs Rd, Kevl, KY 42066				
Generator's Phone: 270-441-8544			U.S. EPA ID Number TRF000011247				
6. Transporter 1 Company Name Specialty Transport Inc.			U.S. EPA ID Number				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name Energy Solutions Care Disposal Site-Treatment Facility US I-80 Exit 49, Cive, UT 84029 1-435-884-0155			U.S. EPA ID Number UTD982598699				
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit WT./VOL.	13. Waste Codes
	1	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3006 MBq, Flammable	1	CM	15506	K	D007
	2.						
	3.						
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2007. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p> <p>14. Material: 237, 230, 234, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000</p> <p>Accumulation Start Date: 02/14/20 PCB Start Date: 02/14/20</p> <p>EMG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator</p> <p>Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 8789-01-0013</p>							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Lachelle Tolfeir on behalf of FRNP			Signature <i>Lachelle Tolfeir</i>		Month Day Year 2 28 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name RON RUNKLE			Signature <i>Ron Runkle</i>		Month Day Year 2 28 20		
Transporter 2 Printed/Typed Name			Signature		Month Day Year		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Justin Lee			Signature <i>Justin Lee</i>		Month Day Year 3 2 2020		

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694809JJK

Shipment ID Number: 9750-01-0013

Shipment Date: 2/28/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-05	PAD20C44023	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/14/20	02/14/20	650	42,080	19,087	34,190	15,508	3,906
		Totals	1				650	42,080	19,087	34,190	15,508	3,906

A-28

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 000000002	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694810 JJK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnerships, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevl, KY 42063 270-441-5544			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevl, KY 42063		
6. Transporter 1 Company Name Specialty Transport Inc.			U.S. EPA ID Number TK000011247		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Energy Solutions Olive Disposal Site-Treatment Facility US I-80 Exit 49, Olive, UT 84028 1-435-884-0155			U.S. EPA ID Number UTD982586890		
9a. HM			10. Containers		11. Total Quantity
9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			No.	Type	12. Unit W/LVol.
1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 311B MBq, Flammable Excepted			1	CM	12300
2.					
3.					
4. Four Rivers Nuclear Partnerships, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.					
14. Special Handling Instructions and Additional Information TRUCK 404 Trailer 4801 TID: NVA Accumulation Start Date: 02/14/20 PCB Start Date: 02/14/20 EPCO # 182 In the event of an RQ Release, call 1-800-424-8502 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9700-01-0014					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offeror's Printed/Typed Name Lachelle Telfair on behalf of FRNP			Signature <i>Lachelle Telfair</i>		Month Day Year 2 28 20
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Donald Lichtenberg			Signature <i>Donald Lichtenberg</i>		Month Day Year 02 28 20
Transporter 2 Printed/Typed Name			Signature		Month Day Year
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Alternate Facility (or Generator)			Manifest Reference Number: NR03 210		U.S. EPA ID Number
Alternate Facility (or Generator) Phone:			Month Day Year		
19. Designated Facility Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
H132		2.	3.	4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name Justin Lee			Signature <i>Justin Lee</i>		Month Day Year 3 2 2020

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694810JJK

Shipment ID Number: 9750-01-0014

Shipment Date: 2/28/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-06	PAD20C44024	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/14/20	02/14/20	620	35,140	15,939	27,250	12,360	3,113
		Totals	1				620	35,140	15,939	27,250	12,360	3,113

A-30

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8990008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694819 JJK	
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevl, KY 42053 270-441-6544			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevl, KY 42053			
6. Transporter 1 Company Name CRST Transportation			U.S. EPA ID No. CR0000005380			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name Energy Solutions Olive Disposal Site Treatment Facility US I-80 Exit 49, Civa, UT 84026 1-435-884-0155			U.S. EPA ID Number UTD862598888			
9a. HM			10. Containers		11. Total Quantity	12. Unit Wt./Vol.
9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			No.	Type		13. Waste Codes
UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid Oxide, 2789 MBq, Fibers Excepted			1	CM	11108	K
14. Special Handling Instructions and Additional Information TRUCK 1453 Trailer OTR 3 TID: NA Accumulation Start Date: 02/16/20 PCB Start Date: 02/16/20 ERG # 162 In the event of an RQ Release, call 1-800-424-6802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9750-01-0016						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 282.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name Lochick Telfair on behalf of FRNP			Signature <i>Lochick Telfair</i>		Month 3	Day 5
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of embarkment: 1 Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Justin Bone			Signature <i>Justin Bone</i>		Month 3	Day 5
Transporter 2 Printed/Typed Name			Signature		Month	Day
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator)			Manifest Reference Number: RECEIVED MAR 10 2020			
Facility's Phone:			U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)			Signature <i>AA</i>		Month	Day
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Albert Sims			Signature <i>Albert Sims</i>		Month 3	Day 9

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694819JJK

Shipment ID Number: 9750-01-0015

Shipment Date: 3/5/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-07	PAD20C44026	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/19/20	02/19/20	620	32,380	14,687	24,490	11,108	2,798
		Totals	1				620	32,380	14,687	24,490	11,108	2,798

A-32

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008862	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694820 JJK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevil, KY 42063 270-441-8844			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevil, KY 42063		
6. Transporter 1 Company Name CRST Transportation			U.S. EPA ID Number CCF000005369		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name Energy Solutions One-Stop Site-Treatment Facility US I-60 Exit 49, Che, UT 84029 1-435-894-0155			U.S. EPA ID Number UTD982598899		
9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers	11. Total Quantity	12. Unit Wt./Vol.
1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-90, Th-230, U-234, Solid/Oxide, 3019 MBq, Flammable Excepted			No. 1	11958	K
			Type CM		
					13. Waste Codes D007
14. Special Handling Instructions and Additional Information TRUCK 1416 Trailer OTR 87 HD: N/A Accumulation Start Date: 02/18/20 PCB Start Date: 02/18/20 EPC # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info Shipment ID: 8700-01-0016					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offero's Printed/Typed Name Lachelle Telfair on behalf of FRNP			Signature <i>[Signature]</i>		Month Day Year 3 5 20
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Robert L. Lindstrom			Signature <i>[Signature]</i>		Month Day Year 03 05 20
Transporter 2 Printed/Typed Name			Signature		Month Day Year
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator)			Manifest Reference Number: MAR 10 2020		
Facility's Phone:			U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator)					Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1. H132		2.		3.	
4.		5.		6.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name Alton Sims			Signature <i>[Signature]</i>		Month Day Year 3 9 20

Manifest Number: 019694820JJK

Shipment ID Number: 9750-01-0016

Shipment Date: 3/5/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-08	PAD20C44027	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/19/20	02/19/20	630	34,320	15,567	26,430	11,988	3,019
		Totals	1				630	34,320	15,567	26,430	11,988	3,019

A-34

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 6600000082	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694821 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevl, KY 42053 270-441-6544				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevl, KY 42053			
6. Transporter 1 Company Name CAST Transportation				U.S. EPA ID Number CO000005388			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name Energy Solutions Ohio Disposal Site-Treatment Facility US I-60 Ext 49, Ciba, UT 84022 1-435-864-0155				U.S. EPA ID Number UTD882598888			
9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit WL/Vol.
UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, Te-129, Th-230, U-234, Solid/Code, 3409 MBq, Flammable Excepted				No.	Type	13512	K
				1	CM		D007
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 15, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004855, including, but not limited to, characterizing waste, manifesting waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004855.</p>							
<p>14. Special Handling Instructions and Additional Information TRUCK 1403 Trailer OTR 64 TID: N/A Accumulation Start Date: 02/19/20 PCB Start Date: 02/19/20 EMD # 162 In the event of an RC Release, call 1-800-424-8802 if undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9780-01-0017</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Officer's Printed/Typed Name Lachelle Bellair on behalf of FRNP				Signature <i>Lachelle Bellair</i>		Month Day Year 3 5 20	
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>							
<p>17. Transporter Acknowledgment of Receipt of Materials</p>							
Transporter 1 Printed/Typed Name Daniel Wheatley				Signature <i>Daniel Wheatley</i>		Month Day Year 3 5 20	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
<p>18. Discrepancy</p>							
<p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p>							
18b. Alternate Facility (or Generator)				Manifest Reference Number:			
Facility's Phone:				U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)				Signature <i>AK</i>		Month Day Year	
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p>							
1. H132		2.		3.		4.	
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a</p>							
Printed/Typed Name Albert Funs				Signature <i>Albert Funs</i>		Month Day Year 3 9 20	

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694821JJK

Shipment ID Number: 9750-01-0017

Shipment Date: 3/5/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-09	PAD20C44028	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/19/20	02/19/20	640	37,680	17,091	29,790	13,512	3,403
		Totals	1				640	37,680	17,091	29,790	13,512	3,403

A-36

30900 17-PLU-U C 09900
 Published by U.S. GELLEN & ASSOCIATES, INC., Bethesda, MD • USA • (301) 327-0000 • #BXNDX001 • Printed in the United States

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 850006882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694822 JJK							
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Keokuk, KY 42063 270-441-8344				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Produce Gaseous Diffusion Plant 6511 Hobbs Rd, Keokuk, KY 42063								
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TKR400011247								
7. Transporter 2 Company Name				U.S. EPA ID Number								
8. Designated Facility Name Energy Solutions One Disposal Site Treatment Facility US I-80 Exit 49, Chea, UT 84025 1-435-884-0155				U.S. EPA ID Number UTD882598898								
Facility's Phone:												
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes				
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid Oxide, 3582 MBq, Flammable Excepted		1	GM	14220	K	D007				
		2.										
		3.										
		4.		Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.								
14. Special Handling Instructions and Additional Information Truck 404 Trailer 4674 TID: N/A Accumulation Start Date: 02/10/20 PCB Start Date: 02/10/20 ERIG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9700-01-0018												
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.												
Generator's/Offeror's Printed/Typed Name LaShelle Telfair on behalf of FRNP								Signature <i>[Signature]</i>		Month 3	Day 12	Year 2020
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____												
17. Transporter Acknowledgment of Receipt of Materials												
Transporter 1 Printed/Typed Name Donald W Lichtenberg												
Signature <i>[Signature]</i>												
Month 03												
Day 12												
Year 20												
18. Discrepancy												
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection												
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____												
Facility's Phone: _____												
18c. Signature of Alternate Facility (or Generator) <i>[Signature]</i> Month: _____ Day: _____ Year: _____												
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)												
1. H132 2. _____ 3. _____ 4. _____												
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a												
Printed/Typed Name Todd Stewart								Signature <i>[Signature]</i>		Month 3	Day 16	Year 2020

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694822JJK

Shipment ID Number: 9750-01-0018

Shipment Date: 3/12/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-10	PAD20C44029	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/19/20	02/19/20	650	39,240	17,799	31,350	14,220	3,582
		Totals	1				650	39,240	17,799	31,350	14,220	3,582

A-38

Please print or type.

Trk 302995 Trk 1416 AL OTR 77

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008962	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694823 JJK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevill, KY 42053 270-441-5544			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevill, KY 42053		
6. Generator's Phone: CAST Transportation			U.S. EPA ID Number: COF000005389		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Mailing Address Energy Solutions Olive Disposal Site-Treatment Facility US I-80 Exit 49, China, UT 84029 1-435-884-0155			U.S. EPA ID Number: UTD862588688		
9a. HM			10. Containers		11. Total Quantity
9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			No.	Type	12. Unit WL/Vol.
1. 1LN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-20, Th-230, U-234, Solid/Oxide, 2764 MBq, Flammable Excepted			1	CM	10986
					K
					D007
13. Waste Codes					
14. Special Handling Instructions and Additional Information Truck 1416 Trailer OTR 77 ID: N/A Accumulation Start Date: 02/18/20 PCB Start Date: 02/18/20 ERG # 162 In the event of an RCQ Release, call 1-800-424-8802 if undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9780-01-0018					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offeror's Printed/Typed Name LeChelle Telfair on behalf of FRNP			Signature <i>LeChelle Telfair</i>		Month Day Year 13 12 2020
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Robert Umbrasp			Signature <i>Robert Umbrasp</i>		Month Day Year 03 12 20
Transporter 2 Printed/Typed Name			Signature		Month Day Year
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____					
18c. Signature of Alternate Facility (or Generator) BY: <i>Justin Lee</i> Month Day Year _____					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1. H132		2.		3.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name Justin Lee			Signature <i>Justin Lee</i>		Month Day Year 3 16 2020

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Manifest Number: 019694823JJK

Shipment ID Number: 9750-01-0019

Shipment Date: 3/12/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-11	PAD20C44030	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/19/20	02/19/20	630	32,000	14,515	24,110	10,936	2,754
		Totals	1				630	32,000	14,515	24,110	10,936	2,754

A-40

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 880000882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694824 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevill, KY 42063 270-441-6544				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevill, KY 42063				
6. Transporter 1 Company Name CAST Transportation				U.S. EPA ID Number COF000005389				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Energy Solutions Ohio Disposal Site-Treatment Facility US I-80 Exit 49, Cline, UT 84029 1-435-884-0155				U.S. EPA ID Number UTD862598888				
9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, To-20, Th-230, U-234, Solids/Oxide, 3333 MBq, Flammable				10. Containers No. 1 Type CM		11. Total Quantity 13231	12. Unit Wt./Vol. K	13. Waste Codes D007
14. Special Handling Instructions and Additional Information Truck 1453 Trailer OTR 10' TID: N/A Accumulation Start Date: 02/21/20 PCB Start Date: 02/21/20 ER# 162 In the event of an RC Release, call 1-800-424-6802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 8700-01-0020								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeree's Printed/Typed Name Lochelle Telfair on behalf of FRNP				Signature <i>[Signature]</i>		Month Day Year 13 12 2020		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Justin M Bone Signature <i>[Signature]</i> Month Day Year 13 12 2020 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____								
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rej 18b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number _____ 18c. Signature of Alternate Facility (or Generator) BY: [Signature] _____ Day Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. _____ 3. _____ 4. _____								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Todd Stewart				Signature <i>[Signature]</i>		Month Day Year 13 16 2020		

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Manifest Number: 019694824JJK

Shipment ID Number: 9750-01-0020

Shipment Date: 3/12/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-12	PAD20C44031	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/21/20	02/21/20	640	37,060	16,810	29,170	13,231	3,333
		Totals	1				640	37,060	16,810	29,170	13,231	3,333

A-42

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694825JJK

Shipment ID Number: 9750-01-0021

Shipment Date: 3/12/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-13	PAD20C44033	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/21/20	02/21/20	645	38,680	17,545	30,790	13,966	3,518
		Totals	1				645	38,680	17,545	30,790	13,966	3,518

A-44

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 660006882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694838 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6611 Hobbs Road, Navel, KY 42063 270-441-6844				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Feduzain Gaseous Diffusion Plant 6611 Hobbs Rd, Navel, KY 42063					
6. Transporter 1 Company Name CAST Transportation				U.S. EPA ID No. CO00005308					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Energy Solutions Site Energy Solutions Site Disposal Site Disposal Site Treatment Facility US I-80 Exit 48, China, UT 84020 1-435-888-0155				U.S. EPA ID Number UTD882586888					
Facility's Phone:									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid Oxide, 3080 Mils, Pails Excepted		No.	Type			D007	
				1	CM	13340	K		
14. Special Handling Instructions and Additional Information Truck 1434 Trailer OTR 3 TID: NA Accumulation Start Date: 02/21/20 PCB Start Date: 02/21/20 EPA # 162 in the event of an RCRA Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 8780-01-0022									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name LeChelle Telfair on behalf of FRNP				Signature 		Month Day Year 3 19 20			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry U.S.: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Dwight L Blawie				Signature 		Month Day Year 3 19 20			
Transporter 2 Printed/Typed Name				Signature		Month Day Year			
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number: _____ U.S. EPA ID Number _____									
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____									
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Albert Ems				Signature 		Month Day Year 3 23 20			

Received 3/23/2020

Manifest Number: 019894838JJK

Shipment ID Number: 9750-01-0022

Shipment Date: 3/19/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-14	PAD20C44034	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/21/20	02/21/20	640	37,300	16,919	29,410	13,340	3,360
Totals				1			640	37,300	16,919	29,410	13,340	3,360

A-46

Manifest Number: 019694839JJK

Shipment ID Number: 9750-01-0023

Shipment Date: 3/19/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-15	PAD20C44035	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/21/20	02/21/20	640	37,520	17,019	29,630	13,440	3,385
Totals				1			640	37,520	17,019	29,630	13,440	3,385

A-48

Please print or type.

Form Approved. OMB No. 2050-0039

177-BLL-U-3 33992

FINANCED BY S. J. NELSON & ASSOCIATES, INC., GREENHILL, WI, USA • (800) 327-0000 • jnelson.com • PRINTED IN THE UNITED STATES

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 862008962	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6335	4. Manifest Tracking Number 019694840 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Nw, KY 42063 270-441-6344				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Fueled Gascoous Diffusion Plant 6511 Hobbs Rd, Nw, KY 42063					
6. CARTING				U.S. EPA ID Number COF00005368					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Energy Solutions One Regional Site Treatment Facility US I-80 Exit 49, Chva, UT 84029 1-435-884-0155				U.S. EPA ID Number UT0982588688					
Facility's Phone:									
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid Oxide, 2704 MBq, Flasks Excepted			1	CM	10736	K	D007	
	2.								
	3.								
	4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895 including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.								
14. Special Handling Instructions and Additional Information Truck 1415 Trailer OTR 84 TID: N/A Accumulation Start Date: 02/21/20 PCB Start Date: 02/21/20 EPO # 162 In the event of an RC Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info Shipment ID: 8788-01-0024									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name LC Walker Telfair on behalf of FRNP				Signature <i>LC Walker Telfair</i>		Month Day Year 3 19 2020			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name ED RODDY				Signature <i>Ed Roddy</i>		Month Day Year 3 19 20			
Transporter 2 Printed/Typed Name				Signature		Month Day Year			
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. WTS2		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Mark Guss				Signature <i>Mark Guss</i>		Month Day Year 3 23 20			

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Received 3/23/2020
Alan L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894840JJK

Shipment ID Number: 9750-01-0024

Shipment Date: 3/19/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-16	PAD20C44036	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/21/20	02/21/20	830	31,580	14,315	23,670	10,736	2,704
		Totals	1				830	31,580	14,315	23,670	10,736	2,704

A-50

122023-16

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership (FRNP) Manifest Doc. No.: 019694840 JJK
 Profile No.: 9750-01-0824 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.

WASTE CODE	WASTE DESCRIPTION	HAZARDOUS CONSTITUENT(S)	WASTE CHARACTERISTIC	WASTE MANAGEMENT
1	D007	Chromium	<input checked="" type="checkbox"/>	A
2			<input type="checkbox"/>	
3			<input type="checkbox"/>	
4			<input type="checkbox"/>	

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

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

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

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

Signature: [Signature] Title: Waste Engineer Date: 03/17/2020

122023-16

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

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

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

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

SUBCATEGORY REFERENCE

D001:

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

D002:

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

122 023-16

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019694840 JJK

Profile No.: 9258-01-0024 State Manifest No.: NA

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

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

WASTE NUMBER	USEPA WASTE CODE(S) AND/OR WASTE CODE(S)	SUBCATEGORY				HOW THE WASTE WILL BE MANAGED (SEE PART 268 OF TITLE 40, CHAPTER I)
		GENERIC	SUBCATEGORY	DESCRIPTION	APPLICABLE	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

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

Signature [Handwritten Signature]
Title Waste Engineer

Date 03/17/2020

122023-16

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019694840 JJK

Profile No.: 9750-81-0024 State Manifest No.: NA

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

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

REF #	USEPA HAZARDOUS WASTE CODE(S)	SUBCATEGORY DESCRIPTION	CHECK ONE		HOW THIS WASTE IS MANAGED
			YES	NONE	
36	←		<input type="checkbox"/>	<input type="checkbox"/>	
37			<input type="checkbox"/>	<input type="checkbox"/>	
38			<input type="checkbox"/>	<input type="checkbox"/>	
39			<input type="checkbox"/>	<input type="checkbox"/>	
40			<input type="checkbox"/>	<input type="checkbox"/>	
41			<input type="checkbox"/>	<input type="checkbox"/>	
42			<input type="checkbox"/>	<input type="checkbox"/>	
43			<input type="checkbox"/>	<input type="checkbox"/>	
44			<input type="checkbox"/>	<input type="checkbox"/>	
45			<input type="checkbox"/>	<input type="checkbox"/>	
46			<input type="checkbox"/>	<input type="checkbox"/>	
47			<input type="checkbox"/>	<input type="checkbox"/>	
48			<input type="checkbox"/>	<input type="checkbox"/>	
49			<input type="checkbox"/>	<input type="checkbox"/>	
50			<input type="checkbox"/>	<input type="checkbox"/>	
51			<input type="checkbox"/>	<input type="checkbox"/>	
52			<input type="checkbox"/>	<input type="checkbox"/>	
53			<input type="checkbox"/>	<input type="checkbox"/>	
54			<input type="checkbox"/>	<input type="checkbox"/>	
55			<input type="checkbox"/>	<input type="checkbox"/>	
56			<input type="checkbox"/>	<input type="checkbox"/>	
57			<input type="checkbox"/>	<input type="checkbox"/>	
58			<input type="checkbox"/>	<input type="checkbox"/>	
59			<input type="checkbox"/>	<input type="checkbox"/>	
60			<input type="checkbox"/>	<input type="checkbox"/>	
61			<input type="checkbox"/>	<input type="checkbox"/>	
62			<input type="checkbox"/>	<input type="checkbox"/>	
63			<input type="checkbox"/>	<input type="checkbox"/>	
64			<input type="checkbox"/>	<input type="checkbox"/>	
65			<input type="checkbox"/>	<input type="checkbox"/>	

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

Signature [Signature] Title Waste Engineer Date 03/17/2020

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

12023-16

Generator Name: FRNP

Manifest Doc. No. :

019694846 SJK

Profile No.:

9780-01-0024

State Manifest No.:

NA

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

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

122023-14

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

1223-6

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

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

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 6630006962	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694841 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevill, KY 42063 270-441-8544			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevill, KY 42063				
Generator's Phone: 270-441-8544			U.S. EPA ID Number TNR00011247				
6. Transporter 1 Company Name Especkly Transport Inc.			U.S. EPA ID Number				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Energy Solutions Site Site: Deposal Site-Treatment Facility US I-80 Exit 49, China, UT 84028 1-435-894-0155			U.S. EPA ID Number LTD962588698				
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, Te-99, Th-230, U-234, Solid Oxide, 2+16 MBq, Flammable	1	CM	9593	K	D007	
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>							
<p>14. Special Handling Instructions and Additional Information TRUCK 403 Trailer 4481 TID: N/A Accumulation Start Date: 02/22/20 PCB Start Date: 02/22/20 ERG # 162 In the event of an RC Release, call 1-800-424-6602 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9760-01-0026</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Offeror's Printed/Typed Name Lochelle Tolkoff on behalf of FRNP			Signature <i>Lochelle Tolkoff</i>		Month Day Year 3 19 20		
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:</p>							
<p>17. Transporter Acknowledgment of Receipt of Materials</p>							
Transporter 1 Printed/Typed Name Jason C Miller			Signature <i>J. Miller</i>		Month Day Year 3 19 20		
Transporter 2 Printed/Typed Name			Signature		Month Day Year		
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>Manifest Reference Number: U.S. EPA ID Number</p>							
<p>18b. Alternate Facility (or Generator) U.S. EPA ID Number</p> <p>Facility's Phone:</p>							
<p>18c. Signature of Alternate Facility (or Generator) Month Day Year</p>							
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p>							
1. H132		2.		3.		4.	
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p>							
Printed/Typed Name Albert Ewins			Signature <i>Albert Ewins</i>		Month Day Year 3 23 20		

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Received 3/23/2020

Alvin L. Hagen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894841JJK

Shipment ID Number: 9750-01-0025

Shipment Date: 3/19/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (R3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-17	PAD20C44037	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/22/20	02/22/20	620	29,040	13,172	21,150	9,593	2,416
		Totals	1				620	29,040	13,172	21,150	9,593	2,416

A-59

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694843 JJK					
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5544				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053						
6. Transporter 1 Company Name CAST Transportation				U.S. EPA ID Number COR000005389						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes				
		No.	Type							
		1. UN 3077, Environmentally hazardous substances, solid, n.o.s., (PCB), 9 PG III	1			DM	67	K		
		2.								
3.										
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 23, 2007. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004935, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004935.</p>										
14. Special Handling Instructions and Additional Information Truck: 1426 Trailer 524 TID: 349532 Accumulation Start Date: N/A PCB Start Date: 06/04/19 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See Attachment for Additional Info Shipment ID: 7340-08-0006										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name Regina Lea on behalf of FRNP				Signature Regina Lea		Month Day Year 04 14 20				
16. Intentional Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name Ed Ruddy				Signature Ed Ruddy		Month Day Year 04 14 20				
Transporter 2 Printed/Typed Name				Signature		Month Day Year				
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
Manifest Reference Number: _____ U.S. EPA ID Number _____										
18b. Alternate Facility (or Generator) U.S. EPA ID Number _____										
Facility's Phone: _____										
18c. Signature of Alternate Facility (or Generator) Month Day Year _____										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. A132		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Todd Stewart				Signature Todd Stewart		Month Day Year 4 16 2020				

RECEIVED 4/16/2020

Alicia L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694843JJK

Shipment ID Number: 7340-08-0006

Shipment Date: 4/14/2020

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	121424	121424-11	PAD19C42778	RAG, PANS, PLASTIC, PADS, PPE	06/04/19	7.4	204	93	148	67
Totals			1			7.4	204	93	148	67

A-61

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

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008962	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694846 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 270-441-6310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053			
6. Transporter 1 Company Name CAST Transportation				U.S. EPA ID Number CCF000005369			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name Energy Solutions Oil & Gas Disposal Site-Treatment Facility US I-80 Exit 49, China, UT 84029 1-435-884-0155				U.S. EPA ID Number UTD982556898			
9a. HM				9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers	
						11. Total Quantity	
						12. Unit Wt./Vol.	
						13. Waste Codes	
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>							
<p>14. Special Handling Instructions and Additional Information Truck: 1404 Trailer OTR 77 TID: NA Accumulation Start Date: 08/26/20 PCB Start Date: 08/26/20 ER# # 182 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info P.MOZZ99 Shipment ID: 9780-01-0038</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Offeror's Printed/Typed Name Lochlan Telfair on behalf of FRNP				Signature <i>[Signature]</i>		Month Day Year 9 22 20	
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>							
<p>17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name MARK J. LORTZEN Signature <i>[Signature]</i> Month Day Year 09 23 20 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____</p>							
<p>18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number _____</p>							
<p>18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ Facility's Phone: _____</p>							
<p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>							
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H102 2. _____ 3. _____ 4. _____</p>							
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Arnet Guss Signature <i>[Signature]</i> Month Day Year 9 25 20</p>							

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

RECEIVED 9-25-2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

[Handwritten Signature]

Manifest Number: 019694846JJK

Shipment ID Number: 9750-01-0038

Shipment Date: 9/22/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-27	PAD20C44630	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	08/26/20	08/26/20	600	35,010	15,880	27,510	12,478	3,143
		Totals	1				600	35,010	15,880	27,510	12,478	3,143

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8860008862	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694847 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42063 270-441-8310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42063					
Generator's Phone: 270-441-8310				U.S. EPA ID Number CCR0000005388					
6. Transporter 1 Company Name CABT Transportation				U.S. EPA ID Number					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name Energy Solutions Civil Disposal Site-Treatment Facility US I-80 Exit 49, Cliva, UT 84029 1-435-884-0155				U.S. EPA ID Number UTD982588888					
Facility's Phone:									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
		1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 2301 MBq, Flammable Excepted		No.	Type	11875	K	D007	
		2.							
		3.							
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>									
<p>14. Special Handling Instructions and Additional Information TRUCK 1465, Trailer OTR 35 TID: NA Accumulation Start Date: 08/08/20 PCB Start Date: 08/08/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pmo2198 Shipment ID: 8780-01-0038</p>									
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>									
<p>Generator's/Offeror's Printed/Typed Name Lochelle Telfer on behalf of FRNP</p> <p>Signature <i>Lochelle Telfer</i></p> <p>Month Day Year 09 22 20</p>									
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____</p>									
<p>17. Transporter Acknowledgment of Receipt of Materials</p> <p>Transporter 1 Printed/Typed Name Richard Rose</p> <p>Signature <i>Richard Rose</i></p> <p>Month Day Year 09 22 20</p> <p>Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____</p>									
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>Manifest Reference Number: _____ U.S. EPA ID Number _____</p>									
<p>18b. Alternate Facility (or Generator)</p> <p>Facility's Phone: _____</p> <p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>									
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. H132 2. _____ 3. _____ 4. _____</p>									
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p> <p>Printed/Typed Name Albert Sims</p> <p>Signature <i>Albert Sims</i></p> <p>Month Day Year 09 25 20</p>									

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

RECEIVED 9-25-2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alison L. Hugen

Published by J. J. KELLER & ASSOCIATES, INC., Neenah, WI • USA • (800) 327-8888 • jkeller.com • Printed in the United States

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694847JJK

Shipment ID Number: 9750-01-0039

Shipment Date: 9/22/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-35	PAD20C44638	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/08/20	09/08/20	575	33,680	15,277	26,180	11,875	2,991
Totals				1			575	33,680	15,277	26,180	11,875	2,991

A-65

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 880008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694848 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevill, KY 42063 270-441-8310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevill, KY 42063				
6. Transporter Name Specialty Transport Inc.				U.S. EPA ID Number TNRC00011247				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name Energy Solutions Site Disposal Site-Treatment Facility US I-80 Exit 49, Chino, UT 84020 1-435-884-0155				U.S. EPA ID Number UTD982588888				
9a. HM				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/oxide, 2283 MBq, Flammable				No.	Type			
				1	CM	9063	K	D007
14. Special Handling Instructions and Additional Information Truck #90 Trailer 4875 TID: N/A Accumulation Start Date: 08/03/20 PCB Start Date: 08/03/20 EM # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02300 Shipment ID: 9780-01-8040								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP				Signature <i>Lochelle Telfair</i>		Month Day Year 9 24 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Doug Runicle				Signature <i>Doug Runicle</i>		Month Day Year 9 24 20		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____								
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Albert Ems				Signature <i>Albert Ems</i>		Month Day Year 9 28 20		

Alison L. Tugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894848JJK

Shipment ID Number: 9750-01-0040

Shipment Date: 9/24/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-30	PAD20C44633	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/03/20	09/03/20	480	27,480	12,465	19,980	9,063	2,283
Totals			1				480	27,480	12,465	19,980	9,063	2,283

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008862	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694849 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevil, KY 42063			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevil, KY 42063				
Generator's Phone: 270-441-8310			U.S. EPA ID Number TNR000011247				
6. Transporter 1 Company Name Specialty Transport Inc.			U.S. EPA ID Number				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address Energy Solutions Civil Disposal Site-Treatment Facility US I-80 Exit 48, Civa, UT 84029 1-435-884-0155			U.S. EPA ID Number UTD982598888				
Facility's Phone:			U.S. EPA ID Number				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Te-99, Th-230, U-234, Solid/Oxide, 3471 MBq, Flammable Excepted	1	CM	13790	K	D007
	2						
	3						
	4	<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>					
<p>14. Special Handling Instructions and Additional Information Truck # 288, Trailer 4874 TID: NA Accumulation Start Date: 08/08/20 PCB Start Date: 08/08/20 ERD # 162 in the event of an RQ Release, call 1-800-424-8802 if undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02301 Shipment ID: 9790-01-9041</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Offeror's Printed/Typed Name		Signature			Month	Day	Year
Lochelle Telfair on behalf of FRNP		<i>[Signature]</i>			9	24	20
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name		Signature			Month	Day	Year
William Gault		<i>[Signature]</i>			9	24	20
Transporter 2 Printed/Typed Name		Signature			Month	Day	Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name		Signature			Month	Day	Year
Albert Gms		<i>[Signature]</i>			9	28	20

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694849JJK

Shipment ID Number: 9750-01-0041

Shipment Date: 9/24/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity MBq
9b.1	122023	122023-32	PAD20C44635	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/08/20	09/08/20	600	37,880	17,182	30,380	13,780	3,471
Totals			1				600	37,880	17,182	30,380	13,780	3,471

Please print or type.

Form Approved. OMB No. 2050-0039

17-ELC-U-3 3549Z

Published by J.J. KELLER & ASSOCIATES, INC. • Neenah, WI • USA • (800) 327-8688 • jk@jkel.com • Printed in the United States

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 669000862	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694850 JJK					
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6611 Hobbs Road, Kevl, KY 42063 270-441-8644				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6611 Hobbs Rd, Kevl, KY 42063						
6. Transporter 1 Company Name East Transportation				U.S. EPA ID Number COF000005389						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Energy Solutions Site Disposal Site Treatment Facility US I-80 Exit 49, Civa, UT 84029 1-435-884-0155				U.S. EPA ID Number UTD862588896						
Facility's Phone:										
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (DOT, PCB), No. 237, To-44, Th-234, U-234, Solid Oxide, 2773 MBq, Flammable			1	CM	11009	K	D007		
	2.									
	3.									
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004855, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004855.</p>										
<p>14. Special Handling Instructions and Additional Information TRUCK 1444 Trailer OTR 77 HD: NA Accumulation Start Date: 03/22/20 PCB Start Date: 03/22/20 END # 162 In the event of an RC Release, call 1-800-424-8902 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9780-01-0026</p>										
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>										
Generator's/Offero's Printed/Typed Name LaChelle Telfair on behalf of FRNP				Signature <i>LaChelle Telfair</i>				Month Day Year 3 30 2020		
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>										
<p>17. Transporter Acknowledgment of Receipt of Materials</p>										
Transporter 1 Printed/Typed Name James Hafer				Signature <i>James A Hafer</i>				Month Day Year 3 30 20		
Transporter 2 Printed/Typed Name				Signature				Month Day Year		
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>Manifest Reference Number: _____ U.S. EPA ID Number _____</p>										
<p>18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____</p> <p>Facility's Phone: _____</p>										
18c. Signature of Alternate Facility (or Generator)								Month Day Year		
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. H32 2. _____ 3. _____ 4. _____</p>										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a				Signature <i>Albert Guss</i>				Month Day Year 4 2 20		

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

RECEIVED 4/2/2020

Alvin L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894850JJK

Shipment ID Number: 9750-01-0026

Shipment Date: 3/30/2020

UHM Section	RFD	Container/ WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-18	PAD20C44038	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/22/20	02/22/20	640	32,160	14,587	24,270	11,009	2,773
Totals				1			640	32,160	14,587	24,270	11,009	2,773

A-71

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 886000882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694851 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 5511 Hobbs Road, Kewell, KY 42053 270-441-6344				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kewell, KY 42053				
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TKR000011247				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name US I-20 Exit 49, Cliva, UT 84029 1-435-884-0155				U.S. EPA ID Number UTD982598826				
Facility's Phone:								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		UN 3021, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCS), Np-237, Te-99, Th-230, U-234, Solid/Oxide, 3042 MBq, Flasks Excepted		No.	Type	12079	K	D007
		2.						
		3.						
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004835, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004835.</p>								
<p>14. Special Handling Instructions and Additional Information TRUCK #99 Trailer 4879 TIC: NA Accumulation Start Date: 02/22/20 PCB Start Date: 02/22/20 ERG # 162 In the event of an RCRA Release, call 1-800-424-6302 if undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9730-01-0027</p>								
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's/Offeror's Printed/Typed Name Michelle Telfair on behalf of FRNP				Signature Michelle Telfair		Month Day Year 3 30 2020		
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of embarkment: _____ Date leaving U.S.: _____</p>								
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Doug Runkle				Signature Doug Runkle		Month Day Year 3 30 20	
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:				18c. Signature of Alternate Facility (or Generator)			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a								
Printed/Typed Name Todd Stewart				Signature Todd Stewart		Month Day Year 3 3 2020		

RECEIVED 4/3/2020

Alison L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694851JJK

Shipment ID Number: 9750-01-0027

Shipment Date: 3/30/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (R3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-19	PAD20C44039	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/22/20	02/22/20	645	34,520	15,658	26,630	12,079	3,042
			Totals	1			645	34,520	15,658	26,630	12,079	3,042

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 6800008082	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694852 JJK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevl, KY 42063 270-441-8544			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Produce Gas Diffusion Plant 6511 Hobbs Rd, Kevl, KY 42063		
6. Transporter 1 Company Name CAST Transportation			U.S. EPA ID Number COF000005389		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Energy Solutions Site Disposal Site-Treatment Facility US I-80 Exit 49, Chvs, UT 84029 1-435-884-0155			U.S. EPA ID Number UTD982598898		
9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) UN 3021, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solids, 3020 MBq, Flammable			10. Containers No. 1 Type CM	11. Total Quantity 12025	12. Unit Wt./Vol. K
			13. Waste Codes D007		
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004935, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004935.					
14. Special Handling Instructions and Additional Information TRUCK 1416 Trailer OTR 104 HD: N/A Accumulation Start Date: 03/22/20 PCB Start Date: 03/22/20 ER# # 182 In the event of an RQ Release, call 1-800-424-8902 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9780-01-0026					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offendor's Printed/Typed Name Michelle Telfair on behalf of FRNP			Signature <i>[Signature]</i>		Month Day Year 3 30 2020
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Robert L. Anderson			Signature <i>[Signature]</i>		Month Day Year 03 30 20
Transporter 2 Printed/Typed Name			Signature		Month Day Year
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator)			Manifest Reference Number: _____ U.S. EPA ID Number _____		
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1. H132		2.		3.	
				4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name Albert Gans			Signature <i>[Signature]</i>		Month Day Year 4 2 20

Published by J. J. KELLEM & ASSOCIATES, INC., Neenah, WI • USA • (800) 327-8986 • jkeller.com • Printed in the United States

RECEIVED 4/2/2020
Alvin L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694852JJK

Shipment ID Number: 9750-01-0028

Shipment Date: 3/30/2020

UJHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (R3)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-20	PAD20C44040	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	02/22/20	02/22/20	645	34,400	15,603	26,510	12,025	3,029
Totals			1				645	34,400	15,603	26,510	12,025	3,029

A-75

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694866 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053			
Generator's Phone: 270-441-5025		U.S. EPA ID Number TNR000011247					
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 48, Clive, UT 84028				U.S. EPA ID Number UTD982598898			
Facility's Phone: 1-435-884-0155							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
RQ	1. UN 3077, Environmentally hazardous substance, solid, n.o.s., (PCB), 9, PG III	6	DM	493	K		
	2.						
	3.						
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.							
14. Special Handling Instructions and Additional Information Truck: 390 Trailer 7592 TID: 349543 Accumulation Start Date: N/A PCB Start Date: 07/24/19 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See Attachment for Additional Info Shipment ID: 7340-08-0007							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <i>Regina Pea on behalf of FRNP</i>				Signature <i>Regina Pea</i>		Month Day Year 06 29 20	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>Doug Runkle</i>				Signature <i>Doug Runkle</i>		Month Day Year 6 29 20	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____ U.S. EPA ID Number							
18b. Alternate Facility (or Generator)							
Facility's Phone:				U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <i>Albert Huns</i>				Signature <i>Albert Huns</i>		Month Day Year 7 12 20	

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

RECEIVED 7/2/2020
Alvin L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694866JJK

Shipment ID Number: 7340-08-0007

Shipment Date: 6/29/2020

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	121424	121424-12	PAD19C42808	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	07/24/19	7.4	206	93	150	68
9b.1	121424	121424-13	PAD19C42817	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	07/25/19	7.4	242	110	186	84
9b.1	121424	121424-14	PAD19C42829	SPILL CLEANUP/ENCAPUSLATION DEBRIS	08/01/19	7	300	136	244	111
9b.1	121424	121424-15	PAD19C43049	SPILL CLEANUP/ENCAPUSLATION DEBRIS	09/03/19	7	276	125	220	100
9b.1	121424	121424-16	PAD19C43702	SPILL CLEANUP/ENCAPUSLATION DEBRIS	12/02/19	7.4	152	69	96	44
9b.1	121993	121993-01	PAD19C43489	CONDUIT/METAL WITH PCB CONTAMINATION	12/23/19	7.4	246	112	190	86
		Totals	6			43.6	1422	645	1086	493

A-77

Alain R. Hugon

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694870 JJK						
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5544				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053							
6. Transporter 1 Company Name Interstate Ventures, Inc.				U.S. EPA ID Number TNR000034678							
7. Transporter 2 Company Name				U.S. EPA ID Number							
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982508998							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
	RC	1. UN 2912, Waste, Radioactive material, low specific activity (LSA-I), 7, (PCB), Am-241, Cs-137, Co-60, Np-237, Pu-238, Pu-239, Sr-90, Tc-99, Th-230, Th-232, U-Dep, Liquid/Oxide, 0.2 MBq, Fissile-Exempted		1		106	K	D018	D021	D027	
		2.									
		3.									
<p>4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 25, 2007. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004855, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004855.</p>											
<p>14. Special Handling Instructions and Additional Information Truck: H58 Trailer 53017 TID: 349514 Accumulation Start Date: 05/07/20 PCB Start Date: 04/03/19 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info Pmo 2244 Shipment ID: 8750-09-0010</p>											
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>											
Generator's/Offendor's Printed/Typed Name <i>Regina Pen on behalf of FRNP</i>				Signature <i>Regina Pen</i>				Month Day Year 10 5 11 20			
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
	17. Transporter Acknowledgment of Receipt of Materials										
TRANSPORTER	Transporter 1 Printed/Typed Name			Signature			Month Day Year				
	Transporter 2 Printed/Typed Name			Signature			Month Day Year				
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____ Facility's Phone: _____										
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. <i>H32</i>			2.			3.			4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name <i>Albert Euns</i>				Signature <i>Albert Euns</i>				Month Day Year 5 13 20			

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694870JJK

Shipment ID Number: 9750-09-0010

Shipment Date: 5/11/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	121255	121255-03	PAD19C42014	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING. POST-TSCA RINSE.	05/07/20	04/03/19	7.4	290	132	234	106	0.2
Totals			1				7.4	290	132	234	106	0.2

A-79

Container 121255-03
 Shipment #: 9750-09-0010

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership LLC (FRNP) Manifest Doc. No.: 019694870JSK
 Profile No.: 9750-09 State Manifest No.: N/A

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

REF #	3. USEPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	D018	TCLP Benzene	<input type="checkbox"/>	A
2	D021	TCLP Chlorobenzene	<input type="checkbox"/>	A
3	D027	TCLP p-Dichlorobenzene (1, 4-Dichlorobenzene)	<input type="checkbox"/>	A
4	←	<i>JW</i> 5/7/2020	<input type="checkbox"/>	

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

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

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

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

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2020.05.07 08:54:08 -04'00' Title Waste Engineer Date _____

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

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

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

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

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

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

SUBCATEGORY REFERENCE

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

- D002:
- D. Corrosive characteristic wastes that are managed in non-CWA/hon-CWA-equivalent/non-Class I SDWA systems.
 - E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

Container 121255-03

Shipment #:

9750-09-0010

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP

Manifest Doc. No.: 019694870JJK

Profile No.: 9750-09

State Manifest No.: N/A

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

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

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

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

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate)
Date: 2020.05.07 08:55:07 -04'00'

Title Waste Engineer Date _____

Container 121255-03

Shipment #:

9750-09-0010

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019694870JJK

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

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

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

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		DESCRIPTION	NONE	
36	←		<input type="checkbox"/>	
37			<input type="checkbox"/>	
38			<input type="checkbox"/>	
39			<input type="checkbox"/>	
40			<input type="checkbox"/>	
41			<input type="checkbox"/>	
42			<input type="checkbox"/>	
43			<input type="checkbox"/>	
44			<input type="checkbox"/>	
45			<input type="checkbox"/>	
46			<input type="checkbox"/>	
47			<input type="checkbox"/>	
48			<input type="checkbox"/>	
49			<input type="checkbox"/>	
50		<i>JN</i> 5/7/2020	<input type="checkbox"/>	
51			<input type="checkbox"/>	
52			<input type="checkbox"/>	
53			<input type="checkbox"/>	
54			<input type="checkbox"/>	
55			<input type="checkbox"/>	
56			<input type="checkbox"/>	
57			<input type="checkbox"/>	
58			<input type="checkbox"/>	
59			<input type="checkbox"/>	
60			<input type="checkbox"/>	
61			<input type="checkbox"/>	
62			<input type="checkbox"/>	
63			<input type="checkbox"/>	
64			<input type="checkbox"/>	
65	←		<input type="checkbox"/>	→

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

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2020.05.07 08:56:11 -04'00'

Title Waste Engineer Date _____

Container 121255-03

Shipment #:

9750-09-0010

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

Generator Name: FRNP

Manifest Doc. No.: 019694870 JJK

Profile No.: 9750-09

State Manifest No.: N/A

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

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene		0.059	3.4	2-Chloro-1,3-butadiene		0.057	0.28 ¹
Acenaphthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	38 ¹	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform		0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acylamide		19 ¹	23 ¹	p-Chloro-m-cresol		0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.062 ¹	NA ¹
Aldicarb sulfone		0.056 ¹	0.28 ¹	Chloromethane/Methyl chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene		0.059	3.4
Aramite		0.36	NA	o-Cresol		0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol		0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol		0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate		0.056 ¹	1.4 ¹
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.056 ¹	1.4 ¹	o,p'-DDD		0.023	0.087
Bendiocarb		0.056 ¹	1.4 ¹	p,p'-DDD		0.023	0.087
Benomyl		0.056 ¹	1.4 ¹	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055 ¹	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³		0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo(g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/ Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.042 ¹	1.4 ¹	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006 ¹	0.14 ¹	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006 ¹	0.14 ¹	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056 ¹	1.4 ¹	2,6-Dichlorophenol		0.044	14
Carbon disulfide	<i>JV</i> 5/7/2020	3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D	<i>JV</i> 5/7/2020	0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan		0.028 ¹	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
p-Chloroaniline		0.46	16	Dieldrin		0.017	0.13
Chlorobenzene		0.057	6.0	Diethyl phthalate		0.20	28

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate	←	0.10	NA	p-Dimethylaminoazobenzene	←	0.13 ¹	NA
2,4-Dimethyl phenol		0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate		0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate		0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	NA
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.056 ¹	1.4 ¹
2,6-Dinitrotoluene		0.55	28	Mexacarbate		0.056 ¹	1.4 ¹
Di-n-octyl phthalate		0.017	28	Molinate		0.042 ¹	1.4 ¹
Di-n-propylnitrosamine		0.40	14	Naphthalene		0.059	5.6
1,4-Dioxane		12.0	170	2-Naphthylamine		0.52	NA
Diphenylamine ³		0.92	13 ¹	o-Nitroaniline		0.27 ¹	14 ¹
Diphenylnitrosamine ³		0.92	13 ¹	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine		0.087	NA	Nitrobenzene		0.068	14
Disulfoton		0.017	6.2	5-Nitro-o-toluidine		0.32	28
Dithiocarbamates (total)		0.028	28 ¹	o-Nitrophenol		0.028 ¹	13 ¹
Endosulfan I		0.023	0.066	p-Nitrophenol		0.12	29
Endosulfan II		0.029	0.13	N-Nitrosodiethylamine		0.40	28
Endosulfan sulfate		0.029	0.13	N-Nitrosodimethylamine		0.40	2.3 ¹
Endrin		0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17
Endrin aldehyde		0.025	0.13	N-Nitrosomethylethylamine		0.40	2.3
EPTC		0.042 ¹	1.4 ¹	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate		0.34	33	N-Nitrosopiperidine		0.013	35
Ethyl benzene		0.057	10	N-Nitrosopyrrolidine		0.013	35
Ethyl cyanide/Propanenitrile		0.24	360	Oxamyl		0.056 ¹	0.28 ¹
Ethyl ether		0.12	160	Parathion		0.014	4.6
Bis(2-Ethylhexyl)phthalate		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)		0.10	10
Ethyl methacrylate		0.14	160	Pebulate		0.042 ¹	1.4 ¹
Ethylene oxide		0.12	NA	Pentachlorobenzene		0.055 ¹	10 ¹
Famphur		0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene		0.068	3L.4	PeCDFs(All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene		0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride		0.056 ¹	1.4 ¹	Pentachloronitrobenzene		0.055	4.8
Heptachlor		0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide		0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene		0.055	5.6	Phenol		0.039	6.2
Hexachlorocyclopentadiene		0.057	2.4	Phorate		0.021	4.6
HxCDDs (All Hexachlorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid		0.055 ¹	28 ¹
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride		0.055	28 ¹
Hexachloroethane		0.055	30	Physostigmine		0.056 ¹	1.4 ¹
Hexachloropropylene		0.035	30	Physostigmine salicylate		0.056 ¹	1.4 ¹
Indeno(1,2,3-c,d)pyrene		0.0055	3.4	Promecarb		0.056 ¹	1.4 ¹
Iodomethane		0.19	65	Pronamide		0.093	1.5
Isobutyl alcohol		5.6	170	Propham		0.056 ¹	1.4 ¹
Isodrin		0.021	0.066	Propoxur		0.056 ¹	1.4 ¹
Isosafrole		0.081	2.6	Prosulfocarb		0.042 ¹	1.4 ¹
Kepone		0.0011	0.13	Pyrene		0.067	8.2
Methacrylonitrile		0.24	84	Pyridine		0.014	16
Methanol		5.6	0.75 mg/l ¹	Safrole		0.081	22
Methapyrilene		0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb		0.056 ¹	1.4 ¹	1,2,4,5-Tetrachlorobenzene		0.055	14
Methomyl	<i>JW</i> 5/7/2020	0.028 ¹	0.14 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)	<i>JW</i> 5/7/2020	0.000063	0.001
Methoxychlor		0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)		0.000063	0.001
3-Methylcholanthrene		0.0055	15	1,1,1,2-Tetrachloroethane		0.057	6.0
4,4'-Methylene bis(2-chloroaniline)	→	0.50	30	1,1,2,2-Tetrachloroethane	→	0.057	6.0

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene	→	0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony	→	1.9	2.1 mg/l TCLP
Thiodicarb		0.0191	1.4 ¹	Antimony		1.9	1.15 mg/l TCLP ⁴
Thiophanate-methyl		0.0561	1.4 ¹	Arsenic		1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l TCLP ⁴
Triallate		0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP ⁴
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP ⁴
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30 ¹
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA ⁴
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7.9	Lead		0.69	0.75 mg/l ⁴ TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate		0.11	0.10 ¹	Nickel		3.98	11 mg/l TCLP ⁴
Vernolate	<i>JW</i> 5/7/2020	0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride		0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of o-, m-, and p-xylene)	←	0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
				Thallium		1.4	0.078 mg/l TCLP ¹
				Thallium	<i>JW</i> 5/7/2020	1.4	0.20 mg/l TCLP ⁴
	<i>JW</i> 5/7/2020			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.

Alisia L. Hagen

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page Y of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694871 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5544				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053			
6. Transporter 1 Company Name Interstate Ventures, Inc.				U.S. EPA ID Number TNR000034878			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-894-0155				U.S. EPA ID Number UTD982598898			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Am-241, Cs-137, Co-60, Np-237, Pu-238, Pu-239, Sr-90, To-99, Th-230, Th-232, U-Deg, Liquid/Oxide, 0.9 MBq, Fissile Excepted		2 DM		397	K	
RQ	2. UN 3082, Environmentally hazardous substance, liquid, n.o.s., (PCB), 9, PG III		3 DM		590	K	
	3.						
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 18, 2007. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.							
14. Special Handling Instructions and Additional Information Truck: H58 Trailer 53017 TID: 349514 Accumulation Start Date: N/A PCB Start Date: 05/09/19 ERG # 162, 171 In the event of an RQ Release, call 1-800-424-8902 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PR09137 Shipment ID: 8750-04-0005							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <i>Regina Pea on behalf of FRNP</i>				Signature <i>Regina Pea</i>		Month Day Year 05 11 20	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name				Signature		Month Day Year	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator) Facility's Phone: _____				U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2. H132		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albert Ems				Signature <i>Albert Ems</i>		Month Day Year 5 15 20	

Manifest Number: 019694871JJK

Shipment ID Number: 9750-04-0005

Shipment Date: ~~3/16/2020~~ ^{RP 4/7/2021} 05/11/2020 *

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	121423	121423-11	PAD19C43338	VENTILATION DUCT OIL AND WATER	12/02/19	6.5	492	223	436	198	0.450
9b.1	121423	121423-07	PAD19C42537	VENTILATION DUCT OIL AND WATER	05/09/19	6.7	496	225	440	200	0.454
9b.2	121423	121423-08	PAD19C42779	VENTILATION DUCT OIL AND WATER	06/24/19	7.4	500	227	444	201	N/A
9b.2	121423	121423-09	PAD19C42813	VENTILATION DUCT OIL AND WATER	08/20/19	5.9	492	223	436	198	N/A
9b.2	121423	121423-10	PAD19C43301	VENTILATION DUCT OIL AND WATER	10/30/19	7.2	476	216	420	191	N/A
Totals			5			33.7	2456	1114	2176	987	0.9

A-88 * Was remanifested on 5/11/2020, but actually shipped on 3/16/2020 RP 4/7/2021

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694891 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC. (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5544			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053				
6. Transporter 1 Company Name Specialty Transport Inc.			U.S. EPA ID Number TNR000011247				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84028 Facility's Phone: 1-435-884-0155			U.S. EPA ID Number UTD982598898				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	RQ	1. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 0.8 MBq, Fissile Excepted	1	CM	141	K	
	RQ	2. UN 2912, Radioactive material, low specific activity (LSA-I), 7, (PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 30.7 MBq, Fissile Excepted	1	DM	23	K	
	RQ	3. UN 3077, Environmentally hazardous substance solid, n.o.s., 9, (PCB), PG III	1	DM	25	K	
14. Special Handling Instructions and Additional Information Truck: 380 Trailer 7476 TID: 348007 Accumulation Start Date: N/A PCB Start Date: 09/23/19 ERG # 162, 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PRO9148 Shipment ID: 7340-08-0009							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/packaged, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Regina Pea on behalf of FRNP		Signature Regina Pea		Month Day Year 07 30 20			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Dave Runkle		Signature Dave Runkle		Month Day Year 7 30 20		
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
	Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2. H132		3. H132		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albert Evans		Signature Albert Evans		Month Day Year 8 3 20			

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

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

RECEIVED 8/3/2020
Alvin L. Hagen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694891JJK

Shipment ID Number: 7340-08-0009

Shipment Date: 7/30/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET	NET	Maximum Activity MBq	
									GROSS WT (lb)	GROSS WT (Kg)		
9b.1	121950	121950-01	PAD19C43590	PCB CONTAINMENT DIKE	11/04/19	36	1010	458	417.21	310	141	0.8
9b.2	121918	121918-01	PAD19C43312	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	09/23/19 09/27/19	1	106	48	50	23	30.68	
9b.3	121998	121998-01	PAD20C44052	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL	1/14/20 01/09/20	7.2	174	79	56	25	N/A	
		Totals	3			44.2	1290	585	416	189	31	

06-V

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

UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator ID Number: **KY 880003982** 2. Page 1 of **2** 3. Emergency Response Phone: **1-270-441-8333** 4. Manifest Tracking Number: **019694899 JJK**

5. Generator's Name and Mailing Address: **Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP**
6511 Hobbs Road, Kevl, KY 42063
 Generator's Phone: **270-441-8310**

Generator's Site Address (if different than mailing address): **FRNP on behalf of the FRNP**
Packuph Geeseous Diffusion Plant
6511 Hobbs Rd, Kevl, KY 42063

6. Transporter's Company Name: **Specialty Transport Inc.** U.S. EPA ID: **HR000011247**

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

8. Designated Facility Name: **Energy Solutions Clive Disposal Site-Treatment Facility**
US 1-80 East 49, Clive, UT 84020
1-435-984-0155 U.S. EPA ID Number: **UTD862588888**

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type			1	2	3
Q	LN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-26, Th-230, U-234, Solid Oxide, 2762 MBq, Flammable Excepted	1	CM	11083	K	D007		

14. Special Handling Instructions and Additional Information:
TRUCK 300 TRAILER 48000 ID: **N/A P10238** Accumulation Start Date: **06/21/20** PCB Start Date: **06/21/20**
ENS # 182 In the event of an RQ Release, call **1-800-424-6802** If undeliverable, return to generator
Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: **8788-01-0038**

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

Generator's/Offerer's Printed/Typed Name: **Loch H. Telfair on behalf of FRNP** Signature: *[Signature]* Month: **9** Day: **18** Year: **20**

16. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: **Dave Runkle** Signature: *[Signature]* Month: **9** Day: **18** Year: **20**

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

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

18b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:

Facility's Phone: 18c. Signature of Alternate Facility (or Generator): Month: Day: Year:

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

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a. Printed/Typed Name: **Justin Lee** Signature: *[Signature]* Month: **9** Day: **19** Year: **20**

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. RECEIVED 9-17-2020 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694899.JJK

Shipment ID Number: 9750-01-0030

Shipment Date: 9/10/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (R3)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-21	PAD20C44041	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	08/21/20	08/21/20	550	33,730	15,300	24,435	11,083	2,792
		Totals	1				550	33,730	15,300	24,435	11,083	2,792

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694900 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partners, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevill, KY 42068 270-441-8310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevill, KY 42068			
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TNR000011247			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Energy Solutions Olive Disposal Site-Treatment Facility US I-80 East 49, Cliva, UT 84025 1-435-884-0155				U.S. EPA ID Number UTD982588888			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), No-237, Te-99, Th-230, U-234, Solid/Oxide, 2362 MBq, Flammable		No.	Type			D007
			1	CM	9378	K	
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.							
14. Special Handling Instructions and Additional Information Truck 445 Trailer 4653 HD: N/A Accumulation Start Date: 08/21/20 PCB Start Date: 08/21/20 ERG # 162 In the event of an RC Release, call 1-800-424-6802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info P#02284 Shipment ID: 9760-01-0031							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Leah Kelleher on behalf of FRNP				Signature <i>Leah Kelleher</i>		Month Day Year 9 16 20	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Willie Odums				Signature <i>Willie Odums</i>		Month Day Year 9 10 20	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H32		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albert Ems				Signature <i>Albert Ems</i>		Month Day Year 9 14 20	

Alvin L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894900JJK

Shipment ID Number: 9750-01-0031

Shipment Date: 9/10/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-22	PAD20C44042	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	08/21/20	08/21/20	500	29,970	13,594	20,675	9,378	2,362
Totals			1				500	29,970	13,594	20,675	9,378	2,362

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: **KY 889006882** 2. Page 1 of **2** 3. Emergency Response Phone: **1-270-441-8333** 4. Manifest Tracking Number: **019694901 JJK**

5. Generator's Name and Mailing Address: **Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 8811 Hobbs Road, Kevill, KY 42068** Generator's Site Address (if different than mailing address): **FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 8811 Hobbs Rd, Kevill, KY 42068**

6. Generator's Phone: **270-441-8810**

7. Transporter 1 Company Name: **Specialty Transport Inc.** U.S. EPA ID Number: **TNFD000112847**

8. Designated Facility Name and Site Address: **Energy Solutions Gase Diffusion Treatment Facility US 1-80 Exit 48, Che, UT 84028** U.S. EPA ID Number: **UTD88288888**

9. Facility's Phone: **1-435-884-0158**

10. Containers	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1	GM	14540	K D007
UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Chunks, 5622 MBq, Plaste Excepted			

14. Special Handling Instructions and Additional Information: **Truck # 402 Trailer # 4574 TID: NA Pmo2283 Accumulation Start Date: 08/21/20 PCB Start Date: 08/21/20 FRNG # 162 In the event of an AQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclude Use Statement, See Attachment for Additional Info Shipment ID: 9780-01-0032**

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

Generator/Officer's Printed/Typed Name: **Leah M. Sullivan on behalf of FRNP** Signature: *[Signature]* Month: **9** Day: **12** Year: **20**

16. International Shipments: Import to U.S. Export from U.S. Port of departure: **Port of departure: Date leaving U.S.:**

17. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: **Randy Silva** Signature: *[Signature]* Month: **9** Day: **10** Year: **20**

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

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

18b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:

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

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems): **H132**

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a: Printed/Typed Name: **Justin Lee** Signature: *[Signature]* Month: **9** Day: **14** Year: **20**

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. RECEIVED 9/17/2020 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Manifest Number: 019894901JJK

Shipment ID Number: 9750-01-0032

Shipment Date: 9/10/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity MBq
9b.1	122023	122023-23	PAD20C44043	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	08/21/20	08/21/20	660	41,350	18,756	32,055	14,540	3,662
		Totals	1				660	41,350	18,756	32,055	14,540	3,662

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.

11-RLU-C-35402
Published by J.J. KELLEY & ASSOCIATES, INC., Reservoir, WI • USA • (201) 347-0000 • jkeller.com • Printed in the United States

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694902 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevil, KY 42063 270-441-8310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevil, KY 42063				
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TN-000011247				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name Energy Solutions Civil Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84020 1-435-884-0155				U.S. EPA ID Number UTD962586690				
9a. HM				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3200 MBq, Flammable				No.	Type			
				1	CM	13081	K	D007
14. Special handling instructions and regulatory information TRUCK 396 Trailer 4875 TID: N/A Accumulation Start Date: 06/21/20 PCB Start Date: 08/21/20 ERD # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pm02285 Shipment ID: 9760-01-0033								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Lochell Telfair on behalf of FRNP				Signature <i>[Signature]</i>		Month Day Year 9 10 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name William Gault				Signature <i>[Signature]</i>		Month Day Year 9 10 20		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____								
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H152		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Albert Gans				Signature <i>[Signature]</i>		Month Day Year 9 14 20		

Alvin L. Hugan

Manifest Number: 019694902JJK

Shipment ID Number: 9750-01-0033

Shipment Date: 9/10/2020

UHWB Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-24	PAD20C44044	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	08/21/20	08/21/20	600	38,090	17,277	28,795	13,061	3,290
			Totals	1			600	38,090	17,277	28,795	13,061	3,290

86-V

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694905 JJK	
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Kani, KY 42063 270-441-8310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kani, KY 42063			
6. Transporter 1 Company Name Specialty Transport Inc.			U.S. EPA ID Number TKR000011247			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Energy Solutions Oil & Gas Disposal Site-Treatment Facility US I-80 Exit 49, Civa, UT 84026 1-435-894-0155			U.S. EPA ID Number LTD982588888			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Te-99, Th-230, U-234, Solid/Oxide, 3686 MBq, Flammable Excepted		1 CM		14238	K
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>						
14. Special Handling Instructions and Additional Information Truck: 300 Trailer 4885 TID: N/A Accumulation Start Date: 08/21/20 PCB Start Date: 08/21/20 ERD # 182 In the event of an RC Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info Shipment ID: 8780-01-8034						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offlor's Printed/Typed Name LaChelle Telfair on behalf of FRNP			Signature <i>LaChelle Telfair</i>		Month 9	Day 17
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit:		Date leaving U.S.:	
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Doug Runkle			Signature <i>Doug Runkle</i>		Month 9	Day 17
Transporter 2 Printed/Typed Name			Signature		Month	Day
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a						
Printed/Typed Name Justin Lee			Signature <i>Justin Lee</i>		Month 9	Day 21

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694905JJK

Shipment ID Number: 9750-01-0034

Shipment Date: 9/17/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-25	PAD20C44045	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	08/21/20	08/21/20	600	38,890	17,640	31,390	14,238	3,586
Totals			1				600	38,890	17,640	31,390	14,238	3,586

A-100

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008862	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694906 JJK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6611 Hobbs Road, Kevil, KY 42083 270-441-8310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6611 Hobbs Rd, Kevil, KY 42083		
6. Transporter 1 Company Name Specialty Transport Inc.			U.S. EPA ID Number TNR000011247		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name Energy Solutions Civil Disposal Site-Treatment Facility US I-60 Exit 49, Clive, UT 84020 1-435-884-0155			U.S. EPA ID Number UTD862598898		
9a. HM			10. Containers		11. Total Quantity
9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			No.	Type	12. Unit Wt./Vol.
1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, Te-99, Th-230, U-234, Solid/Oxide, 3730 MBq, Flammable			1	CM	14846
2.					
3.					
4.					
13. Waste Codes D007					
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p> <p>14. Special Handling Instructions and Additional Information Truck 405 Trailer 4604 TID: N/A Accumulation Start Date: 08/03/20 PCB Start Date: 08/03/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9700-01-0036</p>					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offoror's Printed/Typed Name Zachelle Telfair on behalf of FRNP			Signature <i>Zachelle Telfair</i>		Month Day Year 9 17 20
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Willie Adams			Signature <i>Willie Adams</i>		Month Day Year 9 17 20
Transporter 2 Printed/Typed Name			Signature		Month Day Year
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____					
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1. H132		2.		3.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name Justin Lee			Signature <i>Justin Lee</i>		Month Day Year 9 21 20

Alison L. Hagan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694906JJK

Shipment ID Number: 9750-01-0035

Shipment Date: 9/17/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-26	PAD20C44629	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/03/20	09/03/20	640	40,230	18,248	32,730	14,846	3,739
		Totals	1				640	40,230	18,248	32,730	14,846	3,739

A-102

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694907 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevl, KY 42063 270-441-8310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Fackush Gaseous Diffusion Plant 6511 Hobbs Rd, Kevl, KY 42063				
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TKF000011247				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name Energy Solutions Olive Disposal Site-Treatment Facility US I-80 Exit 49, Civa, UT 84029 1-435-884-0155				U.S. EPA ID Number UTD982598898				
Facility's Phone:								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No.	Type	11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
1	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-90, Th-230, U-234, Solid/oxide, 2873 MBq, Flammable			1	CM	11408	K	D007
2.								
3.								
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>								
<p>14. Special Handling Instructions and Additional Information Truck 402 Trailer 4002 TID: N/A Accumulation Start Date: 08/03/20 PGB Start Date: 08/03/20 ERG # 182 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pmo200 Shipment ID: 9700-01-0036</p>								
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's/Offeror's Printed/Typed Name LaChelle Telfair on behalf of FRNP				Signature <i>LaChelle Telfair</i>		Month Day Year 9 17 20		
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p> <p>Transporter signature (for exports only): _____</p>								
<p>17. Transporter Acknowledgment of Receipt of Materials</p> <p>Transporter 1 Printed/Typed Name Frank Silva</p> <p>Signature <i>Frank Silva</i></p> <p>Month Day Year 9 17 20</p> <p>Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____</p>								
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>Manifest Reference Number: _____ U.S. EPA ID Number _____</p> <p>18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____</p> <p>Facility's Phone: _____</p> <p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>								
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. H132 2. _____ 3. _____ 4. _____</p>								
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p> <p>Printed/Typed Name Albert Gus</p> <p>Signature <i>Albert Gus</i></p> <p>Month Day Year 9 21 20</p>								

Alvin L. Hagen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694907.JJK

Shipment ID Number: 9750-01-0036

Shipment Date: 9/17/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-28	PAD20C44631	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/03/20	09/03/20	560	32,650	14,810	25,150	11,408	2,873
Totals				1			560	32,650	14,810	25,150	11,408	2,873

177-BLC-O 5 55462
Published by J. J. KELLER & ASSOCIATES, INC. © Neenah, WI • USA • (800) 327-6868 • jk@keller.com • Printed in the United States

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 6800048862	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694908 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevill, KY 42053 270-441-6310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053				
Generator's Phone: Specialty Transport Inc.			U.S. EPA ID Number TKP000011247				
7. Transporter 1 Company Name			U.S. EPA ID Number				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name Energy Solutions Ohio Disposal Site-Treatment Facility US I-80 Exit 49, Ciba, UT 84029 1-435-884-0155			U.S. EPA ID Number UTD862588888				
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
		1	CM	9616	K	D007	
14. Special Handling Instructions and Additional Information TRUCK 306 Trailer 4567 TID: N/A Accumulation Start Date: 09/03/20 PCB Start Date: 09/03/20 EPA # 142 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pm02291 Shipment ID: 9700-01-0037							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Lechelle Taylor on behalf of FRNP			Signature <i>Lechelle Taylor</i>		Month Day Year 9 17 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Lytle @ Allison			Signature <i>Lytle @ Allison</i>		Month Day Year 9 12 20		
Transporter 2 Printed/Typed Name			Signature		Month Day Year		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)			Manifest Reference Number:		U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
H132							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albert Gurs			Signature <i>Albert Gurs</i>		Month Day Year 9 21 20		

Received 9-21-2020

Alison L. Hugen

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019684908JJK

Shipment ID Number: 9750-01-0037

Shipment Date: 9/17/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-29	PAD20C44632	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/03/20	09/03/20	480	29,140	13,218	21,640	9,816	2,472
Totals				1			480	29,140	13,218	21,640	9,816	2,472

A-106

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008962	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694938 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnerships, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42063 270-441-8310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42063				
Generator's Phone: Specialty Transport Inc.			U.S. EPA ID # TNR000011247				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Energy Solutions Ohio Disposal Site-Treatment Facility US I-80 Exit 49, Ciba, UT 84029 1-435-884-0155			U.S. EPA ID Number UTD982598898				
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	
			No.	Type			
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3473 MBq, Flammable Excepted	1	CM	13789	K	D007
14. Special Handling Instructions and Additional Information Truck # 412 Trailer 4833 TID: N/A Accumulation Start Date: 08/08/20 PCB Start Date: 08/08/20 ERD # 162 In the event of an RQ Release, call 1-800-424-8902 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02302 Shipment ID: 9700-01-5842							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name LoChelle Telfair on behalf of FRNP		Signature <i>[Signature]</i>		Month Day Year 9 24 20			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name FRANK SILVA		Signature <i>[Signature]</i>		Month Day Year 9 24 20			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)			Manifest Reference Number: U.S. EPA ID Number				
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)			Month Day Year				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Albert Ems		Signature <i>[Signature]</i>		Month Day Year 9 28 20			

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694838JJK

Shipment ID Number: 9750-01-0042

Shipment Date: 9/24/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-34	PAD20C44637	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/08/20	09/08/20	600	37,900	17,191	30,400	13,789	3,473
Totals				1			600	37,900	17,191	30,400	13,789	3,473

405
4890

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008962	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694939 JJK					
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevill, KY 42063				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Pentacarb Gaseous Diffusion Plant 5911 Hobbs Rd, Kevill, KY 42063						
Generator's Phone: 270-441-3310				U.S. EPA ID Number TKR000011247						
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address Energy Solutions Civic Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 1-435-884-0166				U.S. EPA ID Number UTD002628896						
Facility's Phone:				U.S. EPA ID Number						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid Waste, 2481 MBq, Plutonia Encapsid		No.	Type	2552	K	D007		
	2									
	3									
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EMD004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste. In accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EMD004895.										
14. Special Handling Instructions and Additional Information Truck 406 Trailer 4880 TID: N/A Accumulation Start Date: 08/08/20 PCB Start Date: 09/08/20 ERG # 162 In the event of an HQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pm02303 Shipment ID: 9750-01-0043										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP Signature <i>Lochelle Telfair</i> Month Day Year 9 24 20										
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Willie Adams Signature <i>Willie Adams</i> Month Day Year 9 24 20									
	Transporter 2 Printed/Typed Name Signature Month Day Year									
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number									
	18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone:									
	18c. Signature of Alternate Facility (or Generator) Month Day Year									
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Albert Lewis Signature <i>Albert Lewis</i> Month Day Year 9 28 20										

Alison L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694939JJK

Shipment ID Number: 9750-01-0043

Shipment Date: 9/24/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-36	PAD20C44639	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/08/20	09/08/20	500	29,220	13,254	21,720	9,852	2,481
Totals				1			500	29,220	13,254	21,720	9,852	2,481

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694944 JJK	
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevl, KY 42063 270-441-6310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevl, KY 42063			
Generator's Phone: 270-441-6310			U.S. EPA ID Number CON000005388			
6. Transporter 1 Company Name CASI Transportation			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Energy Solutions Olive Disposal Site-Treatment Facility US I-80 Exit 49, Cive, UT 84028 1-435-884-0155			U.S. EPA ID Number UTD882586688			
Facility's Phone:			U.S. EPA ID Number			
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit WT./Vol.	13. Waste Codes
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 2180 MBq, Flammable Excepted	1	CM	8891	K	D007
1	Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.					
14. Special Handling Instructions and Additional Information TRUCK 1443 Trailer OTR 75 TID: N/A Accumulation Start Date: 08/09/20 PCB Start Date: 08/09/20 EM # 182 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info pm02307 Shipment ID: 9750-01-0044						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name LoSchelle Telfair on behalf of FRNP		Signature <i>LoSchelle Telfair</i>		Month 9	Day 29	Year 20
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Joseph K. Antigue Signature <i>Joseph K. Antigue</i> Month 9 Day 29 Year 20						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number: _____						
18b. Alternate Facility (or Generator) Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
H132						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Justin Lee Signature <i>Justin Lee</i> Month 10 Day 2 Year 20						

Alvin L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694944JJK

Shipment ID Number: 9750-01-0044

Shipment Date: 9/29/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-37	PAD20C44640	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/09/20	09/09/20	450	26,660	12,093	19,160	8,691	2,189
		Totals	1				450	26,660	12,093	19,160	8,691	2,189

A-112

17-ELU-U 5 50462

Published by J.J. KELLEN & ASSOCIATES, INC., Neenah, WI • USA • (920) 327-4668 • jkeller.com • Printed in the United States

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8690008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694945 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevill, KY 42063 270-441-6310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 6511 Hobbs Rd, Kevill, KY 42063					
6. Transporter 1 Company Name CAST Transportation			U.S. EPA ID Number CO000005369					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name Energy Solutions Ohio Disposal Site-Treatment Facility US I-80 Exit 49, Cima, UT 84029 1-435-884-0155			U.S. EPA ID Number UTD982596688					
9a. HM			9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
				No.	Type			
Q		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, Te-99, Th-230, U-234, Solid/Oxide, 2628 MBq, Flammable Excepted		1	CM	10438	K	D007
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>								
<p>14. Special Handling Instructions and Additional Information Truck 1449 Trailer OTR 76 TID: NA Accumulation Start Date: 09/09/20 PGB Start Date: 09/09/20 ERG # 162 in the event of an RQ Release, call 1-800-424-6802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info pm02308 Shipment ID: 9750-01-0045</p>								
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP			Signature <i>Lochelle Telfair</i>			Month Day Year 9 29 20		
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>								
<p>17. Transporter Acknowledgment of Receipt of Materials</p>								
Transporter 1 Printed/Typed Name Robert C Lawhorn			Signature <i>Robert C Lawhorn</i>			Month Day Year 09 29 20		
Transporter 2 Printed/Typed Name			Signature			Month Day Year		
<p>18. Discrepancy</p>								
<p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p>								
<p>18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____</p>								
<p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>								
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p>								
1. H132		2.		3.		4.		
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p>								
Printed/Typed Name Justin Lee			Signature <i>Justin Lee</i>			Month Day Year 10 2 20		

RECEIVED 10-2-2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alvin L. Hugen

Manifest Number: 019694945JJK

Shipment ID Number: 9750-01-0045

Shipment Date: 9/29/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-38	PAD20C44641	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/09/20	09/09/20	425	30,500	13,834	23,000	10,433	2,628
		Totals					425	30,500	13,834	23,000	10,433	2,628

A-114

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 6890004882	2. Page 1 of 2	3. Emergency Response Phone 270-441-8310	4. Manifest Tracking Number 019694946 JJK						
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevil, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053							
Generator's Phone: 270-441-8310				U.S. EPA ID Number TNFD00011247							
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number							
7. Transporter 2 Company Name				U.S. EPA ID Number							
8. Designated Facility Name and Site Address Energysolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 1-435-884-0165				U.S. EPA ID Number UTD082508898							
Facility's Phone:				U.S. EPA ID Number							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
				No.	Type						
	1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3339 MBq, Finalis Excepted			1	CM	13335	K	D007			
	2.										
3.											
4.			Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.								
14. Special Handling Instructions and Additional Information Truck 390 Trailer 4884 TID: N/A Accumulation Start Date: 08/04/20 PCB Start Date: 08/04/20 ERG # 162 In the event of an RC Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info <u>RM02310</u> Shipment ID: <u>9730-01-0046</u>											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offeror's Printed/Typed Name LaChelle Telfair on behalf of FRNP				Signature <i>LaChelle Telfair</i>		Month 10		Day 01		Year 20	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name Doug Runkle				Signature <i>Doug Runkle</i>		Month 10		Day 1		Year 20	
Transporter 2 Printed/Typed Name				Signature		Month		Day		Year	
18. Discrepancy											
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
Manifest Reference Number: _____ U.S. EPA ID Number _____											
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____											
Facility's Phone: _____											
18c. Signature of Alternate Facility (or Generator)								Month		Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H132			2.			3.			4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Albert Guss				Signature <i>Albert Guss</i>		Month 10		Day 15		Year 20	

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

RECEIVED 10-5-2020
Alisa L. Hagan

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694946JJK

Shipment ID Number: 9750-01-0046

Shipment Date: 10/1/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-31	PAD20C44634	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/04/20	09/04/20	540	36,900	16,737	29,400	13,336	3,359
		Totals	1				540	36,900	16,737	29,400	13,336	3,359

A-116

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890006982	2. Page 1 of 2	3. Emergency Response Phone No. [REDACTED]	4. Manifest Tracking Number 019694947 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 6511 Hobbs Road, Kavi, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kavi, KY 42053					
Generator's Phone: 270-441-5310									
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TNFD00011247					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address Energysolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 1-435-884-0155				U.S. EPA ID Number UTD062008898					
Facility's Phone:									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1.	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Te-99, Th-230, U-234, Spent/Used, 2577 MBq, Exempt/Exempt		No.	Type				
	2.								
	3.								
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>									
<p>14. Special Handling Instructions and Additional Information Truck 402 Trailer 4895 TID: N/A Accumulation Start Date: 08/04/20 PCB Start Date: 08/04/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info PM02312 Shipment ID: 9799-01-0047</p>									
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>									
Generator's/Offeror's Printed/Typed Name Michelle Telfair on behalf of FRNP							Signature <i>[Signature]</i>		Month Day Year 10 01 20
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>									
<p>17. Transporter Acknowledgment of Receipt of Materials</p>									
Transporter 1 Printed/Typed Name FRANK SILVA							Signature <i>[Signature]</i>		Month Day Year 10 1 20
Transporter 2 Printed/Typed Name							Signature		Month Day Year
<p>18. Discrepancy</p>									
<p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p>									
<p>18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____</p>									
<p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>									
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p>									
1. H32		2. _____		3. _____		4. _____			
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p>									
Printed/Typed Name Albert Guss							Signature <i>[Signature]</i>		Month Day Year 10 5 20

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

RECEIVED 10-5-2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894947JJK

Shipment ID Number: 9750-01-0047

Shipment Date: 10/1/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-33	PAD20C44636	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/04/20	09/04/20	500	30,060	13,635	22,560	10,233	2,577
Totals				1			500	30,060	13,635	22,560	10,233	2,577

A-118

405 4873

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8800000082	2. Page 1 of 2	3. Emergency Response Phone No. [REDACTED]	4. Manifest Tracking Number 019694948 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevil, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5911 Hobbs Rd, Kevil, KY 42053				
Generator's Phone: 270-441-8310				U.S. EPA ID Number TF000011247				
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address Energy Solutions Five Disposal Site-Treatment Facility US I-80 Exit 49, Oive, UT 84029 1-435-884-0185				U.S. EPA ID Number UTD982008898				
Facility's Phone:				U.S. EPA ID Number				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3112 MBq, Fractions Encapsulated		No.	Type			
		2.		1	CM	12366	K	D007
		3.						
		4.						
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>								
14. Special Handling Instructions and Additional Information Trailer 405 Trailer 4873 TID: N/A Accumulation Start Date: 09/09/20 PCB Start Date: 09/09/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9790-01-0049								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP				Signature <i>[Signature]</i>		Month 10	Day 01	Year 20
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:								
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Willie Odums Signature: <i>[Signature]</i> Month: 10 Day: 01 Year: 20 Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:								
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number: Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month: Day: Year:								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Albert Ems Signature: <i>[Signature]</i> Month: 10 Day: 5								

RECEIVED 10-5-2020

DESIGNATED FACILITY TO EPA's e-MANIFEST

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694948.JJK

Shipment ID Number: 9750-01-0048

Shipment Date: 10/1/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-39	PAD20C44642	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/09/20	09/09/20	550	34,740	15,758	27,240	12,356	3,112
		Totals		1			550	34,740	15,758	27,240	12,356	3,112

A-120

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8800008982	2. Page 1 of 2	3. Emergency Response Phone [REDACTED]	4. Manifest Tracking Number 019694949 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 6511 Hobbs Road, Kevill, KY 42063 270-441-6310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 3911 Hobbs Rd, Kevill, KY 42063					
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TNFD00011247					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address Energy Solutions Cinc Disposal Site-Treatment Facility US I-80 Exit 49, Cinc, UT 84029 1-435-884-0166				U.S. EPA ID Number UTD062506698					
Facility's Phone:									
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3939 MBq, Plutella Excepted			No.	Type				
	2.								
	3.								
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>									
<p>14. Special Handling Instructions and Additional Information Truck 366 Trailer 4882 TID: N/A Accumulation Start Date: 09/10/20 PCB Start Date: 09/10/20 ERG # 162 In the event of an RCRA Release, call 1-800-424-8802 Exclusive Use Shipment, See Attachment for Additional Info PM02309 If undeliverable, return to generator Shipment ID: 9790-01-0048</p>									
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>									
Generator's/Offeror's Printed/Typed Name Lachelle Telfair on behalf of FRNP				Signature <i>Lachelle Telfair</i>		Month Day Year 10 01 20			
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>									
<p>17. Transporter Acknowledgment of Receipt of Materials</p>									
Transporter 1 Printed/Typed Name William Gault				Signature <i>W. Gault</i>		Month Day Year 10 1 20			
Transporter 2 Printed/Typed Name				Signature		Month Day Year			
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>Manifest Reference Number: _____ U.S. EPA ID Number _____</p>									
<p>18b. Alternate Facility (or Generator) U.S. EPA ID Number _____</p> <p>Facility's Phone: _____</p>									
<p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>									
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. H132 2. 3. 4.</p>									
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p> <p>Printed/Typed Name Albert Furs Signature <i>Albert Furs</i> Month Day Year 10 5 20</p>									

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

RECEIVED 10-5-2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694949JJK

Shipment ID Number: 9750-01-0049

Shipment Date: 10/1/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-40	PAD20C44643	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/10/20	09/10/20	650	41,980	19,042	34,480	15,640	3,939
		Totals	1				650	41,980	19,042	34,480	15,640	3,939

A-122

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694962 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053				
6. Transporter 1 Company Name CAST Transportation			U.S. EPA ID Number COR000005389				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Energy Solutions Global Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 1-435-884-0155 Facility's Phone:			U.S. EPA ID Number UTD982588898				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 2842 MBq, Fissile Excepted	No.	Type	11285	K	D007
		2.					
		3.					
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.							
14. Hazardous Waste Manifest Instructions and Additional Information: N/A Accumulation Start Date: 09/11/20 PCB Start Date: 09/11/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 9750-01-0030							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name		Signature			Month Day Year		
Lachelle Telfair on behalf of FRNP		[Signature]			10 6 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name		Signature			Month Day Year		
M. R. J. LORTIER		[Signature]			10 16 20		
Transporter 2 Printed/Typed Name		Signature			Month Day Year		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name		Signature			Month Day Year		
Albert Guss		[Signature]			10 9 20		

RECEIVED 10/9/2020

[Signature]

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694962 JJK

Shipment ID Number: 9750-01-0050

Shipment Date: 10/6/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (R3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity Bq/g
9b.1	122023	122023-43	PAD20C44646	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/11/20	09/11/20	550	32,380	14,687	24,880	11,285	2,842
			Totals	1			550	32,380	14,687	24,880	11,285	2,842

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.

12-23-43

POOR QUALITY ORIGINAL

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: Four Rivers Nuclear Partnership (FRNP) Manifest Doc. No.: 61969496255K
 Profile No.: 9256-61-0050 State Manifest No.: NA

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

REF #	3. USEPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY		5. HOW MUST THE WASTE BE MANAGED?
		ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.	NONE	ENTER EITHER FROM BELOW
1	D007	TCLP Chromium	<input type="checkbox"/>	A
2	D008	TCLP Lead	<input type="checkbox"/>	A
3		<i>JW 9/24/2020</i>	<input type="checkbox"/>	→
4		<i>JW 9/24/2020</i>	<input type="checkbox"/>	→

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

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

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

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.
 Signature JOSHUA NORMAN (Affiliate) Title Waste Engineer Date _____
Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2020.09.24 09:26:31 -0400

12223-43

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

POOR QUALITY ORIGINAL

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

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

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

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

SUBCATEGORY REFERENCE

D001:

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

D002:

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

122023-43

POOR QUALITY ORIGINAL

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019694962 JJK

Profile No.: 975021-0550 State Manifest No.: NA

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

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

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

JN 9/24/2020

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

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2020.09.24 09:27:11 -04'00'
Title Waste Engineer Date _____

122023-4?

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019694962 JJK

Profile No.: 9750-01-0050 State Manifest No.: NA

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

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

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

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

Signature JOSHUA NORMAN (Affiliate) Digitally signed by JOSHUA NORMAN (Affiliate) Date: 2020.09.24 09:27:47 -04'00'

Title Waste Engineer Date

122023-43

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

Generator Name: FRNP

Manifest Doc. No.: 91969496 25JK

Profile No.: 9758-01-0052

State Manifest No.: MA

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

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene	←	0.059	3.4	2-Chloro-1,3-butadiene	←	0.057	0.28 ¹
Acenaphthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	38 ¹	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform		0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acylamide		19 ¹	23 ¹	p-Chloro-m-cresol		0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.062 ¹	NA ¹
Aldicarb sulfone		0.056 ¹	0.28 ¹	Chloromethane/Methyl chloride	9/24/2020	0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene	←	0.036	30
Anthracene		0.059	3.4	Chrysene	←	0.059	3.4
Aramite		0.36	NA	o-Cresol	A	0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol	A	0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol	A	0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate	←	0.056 ¹	1.4 ¹
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.056 ¹	1.4 ¹	o,p'-DDD		0.023	0.087
Bendiocarb		0.056 ¹	1.4 ¹	p,p'-DDD		0.023	0.087
Benomyl		0.056 ¹	1.4 ¹	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055 ¹	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³		0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo(g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.042 ¹	1.4 ¹	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006 ¹	0.14 ¹	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006 ¹	0.14 ¹	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056 ¹	1.4 ¹	2,6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan		0.028 ¹	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)	9/24/2020	0.0033	0.26	trans-1,3-Dichloropropylene	9/24/2020	0.036	18
p-Chloroaniline		0.46	16	Dieldrin		0.017	0.13
Chlorobenzene	←	0.057	6.0	Diethyl phthalate	←	0.20	28

122023-45

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate		0.10	NA	p-Dimethylaminoazobenzene		0.13 ¹	NA
2,4-Dimethyl phenol		0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate		0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate		0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	NA
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.056 ¹	1.4 ¹
2,6-Dinitrotoluene		0.55	28	Mexacarbate		0.056 ¹	1.4 ¹
Di-n-octyl phthalate		0.017	28	Moliniate		0.042 ¹	1.4 ¹
Di-n-propylnitrosamine		0.40	14	Naphthalene		0.059	5.6
1,4-Dioxane		12.0	170	2-Naphthylamine		0.52	NA
Diphenylamine ³		0.92	13 ¹	o-Nitroaniline		0.27 ¹	14 ¹
Diphenylnitrosamine ³		0.92	13 ¹	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine		0.087	NA	Nitrobenzene		0.068	14
Disulfoton		0.017	6.2	5-Nitro-o-toluidine		0.32	28
Dithiocarbamates (total)		0.028	28 ¹	o-Nitrophenol		0.028 ¹	13 ¹
Endosulfan I		0.023	0.066	p-Nitrophenol		0.12	29
Endosulfan II		0.029	0.13	N-Nitrosodiethylamine		0.40	28
Endosulfan sulfate		0.029	0.13	N-Nitrosodimethylamine		0.40	2.3 ¹
Endrin		0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17
Endrin aldehyde		0.025	0.13	N-Nitrosomethylethylamine		0.40	2.3
EPTC		0.042 ¹	1.4 ¹	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate		0.34	33	N-Nitrosopiperidine		0.013	35
Ethyl benzene		0.057	10	N-Nitrosopyrrolidine	JW 9/24/2020	0.013	35
Ethyl cyanide/Propanenitrile		0.24	360	Oxamyl		0.056 ¹	0.28 ¹
Ethyl ether		0.12	160	Parathion		0.014	4.6
Bis(2-Ethylhexyl)phthalate		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)	A	0.10	10
Ethyl methacrylate		0.14	160	Pebulate		0.042 ¹	1.4 ¹
Ethylene oxide		0.12	NA	Pentachlorobenzene		0.055 ¹	10 ¹
Famphur		0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene		0.068	3L.4	PeCDFs (All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene		0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride		0.056 ¹	1.4 ¹	Pentachloronitrobenzene		0.055	4.8
Heptachlor		0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide		0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene		0.055	5.6	Phenol		0.039	6.2
Hexachlorocyclopentadiene		0.057	2.4	Phorate		0.021	4.6
HxCDDs (All Hexachlorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid		0.055 ¹	28 ¹
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride		0.055	28 ¹
Hexachloroethane		0.055	30	Physostigmine		0.056 ¹	1.4 ¹
Hexachloropropylene		0.035	30	Physostigmine salicylate		0.056 ¹	1.4 ¹
Indeno(1,2,3-c,d)pyrene		0.0055	3.4	Promecarb		0.056 ¹	1.4 ¹
Iodomethane		0.19	65	Pronamide		0.093	1.5
Isobutyl alcohol		5.6	170	Propoxur		0.056 ¹	1.4 ¹
Isodrin		0.021	0.066	Prosulfocarb		0.042 ¹	1.4 ¹
Isosafrole		0.081	2.6	Pyrene		0.067	8.2
Kepone		0.0011	0.13	Pyridine		0.014	16
Methacrylonitrile		0.24	84	Safrole		0.081	22
Methanol		5.6	0.75 mg/l ¹	Silvex/2,4,5-TP		0.72	7.9
Methapyrilene		0.081	1.5	1,2,4,5-Tetrachlorobenzene		0.055	14
Methiocarb		0.056 ¹	1.4 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methomyl		0.028 ¹	0.14 ¹	TCDFs (All Tetrachlorodibenzo-furans)	JW 9/24/2020	0.000063	0.001
Methoxychlor	JW 9/24/2020	0.25	0.18	1,1,1,2-Tetrachloroethane		0.057	6.0
3-Methylcholanthrene		0.0055	15	1,1,2,2-Tetrachloroethane		0.057	6.0
4,4'-Methylene bis(2-chloroaniline)		0.50	30				

122-23-43

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

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

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694963 JJK	
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevii, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd. Kevii, KY 42053		
Generator's Phone: 270-441-5310		6. Transporter 1 Company Name CAST Transportation		U.S. EPA ID Number COR000005389		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029				U.S. EPA ID Number UTD982598898		
Facility's Phone: 1-435-884-0155						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 2794 MBq, Fissile Excepted	No.	Type			D007 D008 10/8/20
		1	CM	11095	K	
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.						
14. ERG # 162 In the event of an RQ Release, call 1-800-424-8802 Exclusive Use Shipment, See Attachment for Additional Info PM02313 Accumulation Start Date: 09/14/20 PCB Start Date: 09/14/20 If undeliverable, return to generator Shipment ID: 9750-01-0001						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offendor's Printed/Typed Name Lochelle Telfair on behalf of FRNP		Signature <i>[Signature]</i>		Month Day Year 10 16 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name STEPHAN SICINNON Signature <i>[Signature]</i> Month Day Year 10 06 20 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number _____						
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. _____ 3. _____ 4. _____						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Albert Ems Signature <i>[Signature]</i> Month Day Year 10 8 20						

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694963 JJK

Shipment ID Number: 9750-01-0051

Shipment Date: 10/6/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-49	PAD20C44952	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/14/20	09/14/20	400	31,960	14,497	24,460	11,095	2,794
Totals			1				400	31,960	14,497	24,460	11,095	2,794

A-133

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694964 JJK	
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd. Kevill, KY 42053			
Generator's Phone: 270-441-6310		U.S. EPA ID Number WAR000012005				
6. Transporter 1 Company Name RSB LOGISTICS Inc.			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name US I-80 Exit 49, Clive, UT 84028			U.S. EPA ID Number UTD982508888			
Facility's Phone: 1-435-884-0155			U.S. EPA ID Number			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	Q	UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3101 MBq, Fissile Excepted	1 CM	12310	K	D007 D008 10/16/20
	2.					
	3.					
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generator pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM000095, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM000095.</p> <p>14. Special Handling Instructions and Additional Information Truck: 56115 Trailer F48220 TID: N/A Accumulation Start Date: 09/11/20 Shipment ID: 9750-el-0052 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 PCB Start Date: 09/11/20 Exclusive Use Shipments: <input checked="" type="checkbox"/> Attachment for Additional Info: AM0235 If undeliverable, return to generator</p> <p>15. GENERATOR/SUPPLIER'S CERTIFICATION: I hereby declare that the contents of this commitment are fully and accurately described above by the manifest shipping forms, and the contents are properly marked and labeled/disclosed, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this commitment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>						
Generator's/Owner's Printed/Typed Name Michelle Taylor on behalf of FRNP		Signature <i>[Signature]</i>		Month Day Year 10 16 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Wes JENNINGS		Signature <i>[Signature]</i>		Month Day Year 10 16 20		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Abot Gus		Signature <i>[Signature]</i>		Month Day Year 10 9 20		

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. RECEIVED 10/9/2020 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694964 JJK

Shipment ID Number: 9750-01-0052

Shipment Date: 10/6/2020

UNMT Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity (Bq/g)
90.1	122023	122023-41	PAD20C44644	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/11/20	09/11/20	550	34,640	15,712	27,140	12,310	3,101
Totals			1				550	34,640	15,712	27,140	12,310	3,101

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

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694965 JJK
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310		Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053		
6. Transporter 1 Company Name RSE LOGISTICS Inc.		U.S. EPA ID Number WAR000012005		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-894-0155		U.S. EPA ID Number		
9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3589 MBq, Fissile Excepted		10. Containers No. Type 1 CM	11. Total Quantity 14288	12. Unit K
		13. Waste Codes D007 RC MSLC		
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p> <p>14. Special Handling Instructions and Additional Information Truck: 65020 Trailer: F452204 TID: N/A Accumulation Start Date: 09/11/20 PCB Start Date: 09/11/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PMS314 Shipment ID: 9730-01-0003</p> <p>15. GENERATOR/SUPPLIER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/carcarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>				
Generator/Officer's Printed/Typed Name L. Schell-Taylor on behalf of FRNP		Signature L. Schell-Taylor		Month Day Year 10/6/20
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of embarkment: Date leaving U.S.:				
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Robert Medear		Signature R. Medear		Month Day Year 10/6/20
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection		Manifest Reference Number		
18b. Alternate Facility (or Generator) Facility's Name: Facility's Phone:		U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator)		Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name Albert Owens				
Signature Albert Owens		Signature Albert Owens		Month Day Year 10/9/20

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. RECEIVED 10/9/2020 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694985 JJK

Shipment ID Number: 9750-01-0053

Shipment Date: 10/8/2020

LRWM Section	RFID	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity MBq
9b.1	122023	122023-42	PAD20C44645	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/11/20	09/11/20	600	39,000	17,690	31,500	14,288	3,599
Totals				1			600	39,000	17,690	31,500	14,288	3,599

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 889000882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694968 JJK	
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5544			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053			
6. Transporter 1 Company Name Specialty Transport Inc.			U.S. EPA ID Number TNR000011247			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84028 Facility's Phone: 1-435-884-0155			U.S. EPA ID Number UTD98259888			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt/Vol	13. Waste Codes
	RC	1. NA3077, Hazardous waste, solid, n.o.s., (Lead), 9, PG III, (PCB, D008)	1 CM	768	K	D008
		2.				
		3.				
		4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 23, 2013. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract D-EMW00085, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract D-EMW00085.				
14. Special Handling Instructions and Additional Information Truck: 390 Trailer 4890 TID: N/A Accumulation Start Date: 08/14/20 PCB Start Date: 08/14/20 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See Attachment for Additional Info PMO2322 Shipment ID: 9750-01-0070						
15. GENERATOR/SUPPLIER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Regina Pen on behalf of FRNP		Signature Regina Pen		Month Day Year 11 0 19 20		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Doris Runkle Signature Doris Runkle Month Day Year 10 18 20 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number _____						
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Thomas Wright Signature Thomas Wright Month Day Year 11 23 20						

RECEIVED 10/26/2020 DESIGNATED FACILITY TO EPA'S e-MANIFEST SYSTEM
 [Signature]

2022
 PCB and Additional Information Attachment, Page ~~2 of 2~~ 59. 10/26/20
 Manifest Number: 019694968JJK
 Shipment ID Number: 0750-01-0070
 Shipment Date: 10/19/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	Accumulation Start Date	NET VOLUME (G)	GROSS WT (G)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	122138	122138-01	PAD20C44820	PCB/HAZARDOUS CONTAMINATED ITEMS: JUNCTION BOXES, POTHEADS, CABLE	08/14/20	08/14/20	30	2936	1332	1684	768
Totals			1				30	2936	1332	1684	768

9750-01-0070

POOR QUALITY ORIGINAL

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

121061-02/-03/-04/-05, 121650-23/-24, 122138-01

Generator Name: Four Rivers Nuclear Partnership Manifest Doc. No.: 019694968JJK
Profile No.: PAD-WD-0598-R7-V11 9750-01 State Manifest No.: N/A

- 1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater [] Wastewater [X]
2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory.

Table with 5 columns: REF #, 3. USEPA HAZARDOUS WASTE CODE(S), 4. SUBCATEGORY (DESCRIPTION, NONE), 5. HOW MUST THE WASTE BE MANAGED? (ENTER LETTER FROM BELOW). Row 1: 1, D008, LEAD, [X], A. Rows 2-4: 2, 3, 4, [left arrow], FO 09/22/2020, [], [], [].

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

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below.

- A. RESTRICTED WASTE REQUIRES TREATMENT
B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
C. RESTRICTED WASTE SUBJECT TO A VARIANCE
D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

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

Signature FRANKLIN OVERBY (Affiliate) Digitally signed by FRANKLIN OVERBY (Affiliate) Date: 2020.10.13 07:35:48 -05'00' Title Waste Engineer Date

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

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

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

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

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

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

SUBCATEGORY REFERENCE

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

- D002:
- D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.
 - E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 01969496BJK

Profile No.: PAD-WD-0598-R7-V11 9750-01 State Manifest No.: N/A

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

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

REF #	3. USEPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.	NONE	
		DESCRIPTION		
5			<input type="checkbox"/>	
6			<input type="checkbox"/>	
7			<input type="checkbox"/>	
8			<input type="checkbox"/>	
9			<input type="checkbox"/>	
10			<input type="checkbox"/>	
11			<input type="checkbox"/>	
12			<input type="checkbox"/>	
13			<input type="checkbox"/>	
14			<input type="checkbox"/>	
15			<input type="checkbox"/>	
16			<input type="checkbox"/>	
17			<input type="checkbox"/>	
18			<input type="checkbox"/>	
19			<input type="checkbox"/>	
20			<input type="checkbox"/>	
21		FO 09/22/2020	<input type="checkbox"/>	
22			<input type="checkbox"/>	
23			<input type="checkbox"/>	
24			<input type="checkbox"/>	
25			<input type="checkbox"/>	
26			<input type="checkbox"/>	
27			<input type="checkbox"/>	
28			<input type="checkbox"/>	
29			<input type="checkbox"/>	
30			<input type="checkbox"/>	
31			<input type="checkbox"/>	
32			<input type="checkbox"/>	
33			<input type="checkbox"/>	
34			<input type="checkbox"/>	
35			<input type="checkbox"/>	

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

FRANKLIN OVERBY

Digitally signed by FRANKLIN OVERBY (Affiliate)

Signature (Affiliate)

Date: 2020.10.13 07:39:09 -05'00'

Title Waste Engineer

Date _____

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: FRNP Manifest Doc. No.: 019694968JJK

Profile No.: PAD-WD-0598-R7-V11 9750-01 State Manifest No.: N/A

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

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

REF #	3. USEPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.	NONE	
		DESCRIPTION		
36			<input type="checkbox"/>	
37			<input type="checkbox"/>	
38			<input type="checkbox"/>	
39			<input type="checkbox"/>	
40			<input type="checkbox"/>	
41			<input type="checkbox"/>	
42			<input type="checkbox"/>	
43			<input type="checkbox"/>	
44			<input type="checkbox"/>	
45			<input type="checkbox"/>	
46			<input type="checkbox"/>	
47			<input type="checkbox"/>	
48			<input type="checkbox"/>	
49			<input type="checkbox"/>	
50			<input type="checkbox"/>	
51			<input type="checkbox"/>	
52		FO 09/22/2020	<input type="checkbox"/>	
53			<input type="checkbox"/>	
54			<input type="checkbox"/>	
55			<input type="checkbox"/>	
56			<input type="checkbox"/>	
57			<input type="checkbox"/>	
58			<input type="checkbox"/>	
59			<input type="checkbox"/>	
60			<input type="checkbox"/>	
61			<input type="checkbox"/>	
62			<input type="checkbox"/>	
63			<input type="checkbox"/>	
64			<input type="checkbox"/>	
65			<input type="checkbox"/>	

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

Digitally signed by FRANKLIN OVERBY

FRANKLIN OVERBY (Affiliate) (Affiliate)

Signature _____ Date: 2020.10.13 07:39:56 -05'00'

Title Waste Engineer _____ Date _____

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

Generator Name: FRNP

Manifest Doc. No.: 019694968JJK

Profile No.: PAD-WD-0598-R7-V11 9750-01

State Manifest No.: N/A

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

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Acenaphthylene	←	0.059	3.4	2-Chloro-1,3-butadiene	←	0.057	0.28 ¹
Acenaphthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	38 ¹	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform	FO 09/22/2020	0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acylamide		19 ¹	23 ¹	p-Chloro-m-cresol		0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.062 ¹	NA ¹
Aldicarb sulfone		0.056 ¹	0.28 ¹	Chloromethane/Methyl chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene	→	0.059	3.4
Aramite		0.36	NA	o-Cresol	A	0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol	A	0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol	A	0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate	←	0.056 ¹	1.4 ¹
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.056 ¹	1.4 ¹	o,p'-DDD		0.023	0.087
Bendiocarb		0.056 ¹	1.4 ¹	p,p'-DDD		0.023	0.087
Benomyl		0.056 ¹	1.4 ¹	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055 ¹	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³		0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo(g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol	FO 09/22/2020	5.6	2.6	p-Dichlorobenzene	FO 09/22/2020	0.090	6.0
Butylate		0.042 ¹	1.4 ¹	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006 ¹	0.14 ¹	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006 ¹	0.14 ¹	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056 ¹	1.4 ¹	2,6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan		0.028 ¹	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
p-Chloroaniline		0.46	16	Dieldrin		0.017	0.13
Chlorobenzene	→	0.057	6.0	Diethyl phthalate	→	0.20	28

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted			
Chlorobenzilate	←	0.10	NA	p-Dimethylaminoazobenzene	→	0.13 ¹	NA			
2,4-Dimethyl phenol		0.036	14	Methylene chloride		0.089	30			
Dimethyl phthalate		0.047	28	Methyl ethyl ketone		0.28	36			
Di-n-butyl phthalate		0.057	28	Methyl isobutyl ketone		0.14	33			
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14	160			
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	NA			
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6			
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.056 ¹	1.4 ¹			
2,6-Dinitrotoluene		0.55	28	Mexacarbate		0.056 ¹	1.4 ¹			
Di-n-octyl phthalate		0.017	28	Molinate		0.042 ¹	1.4 ¹			
Di-n-propylnitrosamine		0.40	14	Naphthalene		0.059	5.6			
1,4-Dioxane		12.0	170	2-Naphthylamine		FO 09/22/2020	0.52	NA		
Diphenylamine ³		0.92	13 ¹	o-Nitroaniline		0.27 ¹	14 ¹			
Diphenylnitrosamine ³		0.92	13 ¹	p-Nitroaniline		0.028	28			
1,2-Diphenylhydrazine		0.087	NA	Nitrobenzene		0.068	14			
Disulfoton		0.017	6.2	5-Nitro-o-toluidine		0.32	28			
Dithiocarbamates (total)		0.028	28 ¹	o-Nitrophenol		0.028 ¹	13 ¹			
Endosulfan I		0.023	0.066	p-Nitrophenol		0.12	29			
Endosulfan II		0.029	0.13	N-Nitrosodiethylamine		0.40	28			
Endosulfan sulfate		0.029	0.13	N-Nitrosodimethylamine		0.40	2.3 ¹			
Endrin		0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17			
Endrin aldehyde		0.025	0.13	N-Nitrosomethylethylamine		0.40	2.3			
EPTC		0.042 ¹	1.4 ¹	N-Nitrosomorpholine		0.40	2.3			
Ethyl acetate		0.34	33	N-Nitrosopiperidine		0.013	35			
Ethyl benzene		0.057	10	N-Nitrosopyrrolidine		0.013	35			
Ethyl cyanide/Propanenitrile		0.24	360	Oxamyl		0.056 ¹	0.28 ¹			
Ethyl ether		0.12	160	Parathion		0.014	4.6			
Bis(2-Ethylhexyl)phthalate		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)		A	0.10	10		
Ethyl methacrylate		0.14	160	Pebulate		←	0.042 ¹	1.4 ¹		
Ethylene oxide		0.12	NA	Pentachlorobenzene			0.055 ¹	10 ¹		
Famphur		0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)			0.000035	0.001		
Fluoranthene		0.068	3L.4	PeCDFs(All Pentachlorodibenzofurans)			0.000035	0.001		
Fluorene		0.059	3.4	Pentachloroethane			0.055	6.0		
Formetanate hydrochloride		0.056 ¹	1.4 ¹	Pentachloronitrobenzene			0.055	4.8		
Heptachlor		0.0012	0.066	Pentachlorophenol			0.089	7.4		
Heptachlor epoxide		0.016	0.066	Phenacetin			0.081	16		
Hexachlorobenzene		0.055	10	Phenanthrene			0.059	5.6		
Hexachlorobutadiene		0.055	5.6	Phenol			0.039	6.2		
Hexachlorocyclopentadiene		0.057	2.4	Phorate			0.021	4.6		
HxCDDs (All Hexachlorodibenzo-p-dioxins)		0.000063	0.001	Phthalic acid			0.055 ¹	28 ¹		
HxCDFs (All Hexachlorodibenzofurans)		0.000063	0.001	Phthalic anhydride			0.055	28 ¹		
Hexachloroethane		FO 09/22/2020	0.055	30			Physostigmine	FO 09/22/2020	0.056 ¹	1.4 ¹
Hexachloropropylene		0.035	30	Physostigmine salicylate			0.056 ¹	1.4 ¹		
Indeno(1,2,3-c,d)pyrene		0.0055	3.4	Promecarb			0.056 ¹	1.4 ¹		
Iodomethane		0.19	65	Pronamide			0.093	1.5		
Isobutyl alcohol	5.6	170	Propham	0.056 ¹	1.4 ¹					
Isodrin	0.021	0.066	Propoxur	0.056 ¹	1.4 ¹					
Isosafrole	0.081	2.6	Prosulfocarb	0.042 ¹	1.4 ¹					
Kepone	0.0011	0.13	Pyrene	0.067	8.2					
Methacrylonitrile	0.24	84	Pyridine	0.014	16					
Methanol	5.6	0.75 mg/l ¹	Safrole	0.081	22					
Methapyrilene	0.081	1.5	Silvex/2,4,5-TP	0.72	7.9					
Methiocarb	0.056 ¹	1.4 ¹	1,2,4,5-Tetrachlorobenzene	0.055	14					
Methomyl	0.028 ¹	0.14 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)	0.000063	0.001					
Methoxychlor	0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)	0.000063	0.001					
3-Methylcholanthrene	0.0055	15	1,1,1,2-Tetrachloroethane	0.057	6.0					
4,4'-Methylene bis(2-chloroaniline)	0.50	30	1,1,2,2-Tetrachloroethane	0.057	6.0					

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Tetrachloroethylene		0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		0.030	7.4	Antimony		1.9	2.1 mg/l TCLP
Thiodicarb		0.0191	1.4 ¹	Antimony		1.9	1.15 mg/l TCLP ⁴
Thiophanate-methyl		0.0561	1.4 ¹	Arsenic		1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l TCLP ⁴
Triallate		0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP ⁴
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium		0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane		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 ¹	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	FO 09/22/2020	0.72	7.9	Lead	FO 09/22/2020	0.69	0.75 mg/l ⁴ TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3-Dibromopropyl)phosphate		0.11	0.10 ¹	Nickel		3.98	11 mg/l TCLP ⁴
Vernolate		0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride		0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of o-, m-, and p-xylene)		0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
	FO 09/22/2020			Thallium		1.4	0.078 mg/l TCLP ¹
				Thallium		1.4	0.20 mg/l TCLP ⁴
				Vanadium		4.3 ²	1.6 mg/l TCLP ²
				Zinc		2.61	4.3 mg/l TCLP ²

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.

405
248374

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694971 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC. (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5544				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053			
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TNR000011247			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Bulk Waste Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	RQ	1. UN 3321, Radioactive material, low specific activity (LSA-II), 7. (PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 164 MBq, Fissile Excepted	1	DM	38	K	
	RQ	2. UN 3077, Environmentally hazardous substance, solid, n.o.s., 9, PG III, (PCB)	1	DM	41	K	
		3.					
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>							
<p>14. Special Handling Instructions and Additional Information Truck: 405 Trailer 248374 TID: 349540 Accumulation Start Date: N/A PCB Start Date: 02/18/20 ERG # 182, 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info P209175 Shipment ID: 7340-08-0010</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Offeror's Printed/Typed Name Regina Pea on behalf of FRNP				Signature Regina Pea		Month Day Year 10 20 20	
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Willie Odoms Signature: Willie Odoms Month Day Year: 10 30 20 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____						
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number: _____						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____						
	18c. Signature of Alternate Facility (or Generator)					Month Day Year	
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2. H132		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Albert Eus				Signature: Albert Eus		Month Day Year: 10 26 20	

RECEIVED 10/26/2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Albert Eus

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694871JJK

Shipment ID Number: 7340-08-0010

Shipment Date: 10/20/2020

URWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	121993	121993-02	PAD20C44141	LIGHT BALLAST	02/18/20	7.4	140	64	84	38	164
9b.2	121998	121998-02	PAD20C44093	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL	02/24/20	7.4	146	66	90	41	N/A
		Totals	2			14.8	286	130	174	79	164

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.

405
248374

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694972 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5025				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053			
6. Transporter 1 Company Name Specialty Transport Inc.				U.S. EPA ID Number TNR000011247			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
RQ	1. UN 3082, Environmentally hazardous substance, Liquid, n.o.s., (PCB), 9, PG III	1	DM	192	K		
	2.						
	3.						
	4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.						
14. Special Handling Instructions and Additional Information Truck: 405 Trailer 248374 TID: 349540 Accumulation Start Date: N/A PCB Start Date: 02/11/20 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See Attachment for Additional Info P209176 Shipment ID: 9750-04-0008							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Regina Pea on behalf of FRNP				Signature Regina Pea		Month Day Year 10 20 20	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Year Willie Odems Willie Odems 10 20 20 Transporter 2 Printed/Typed Name Signature Month Day Year							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number _____							
18b. Alternate Facility (or Generator) U.S. EPA ID Number _____ Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
	Hr32						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year Albert Gms Albert Gms 10 26 20							

RECEIVED 10/26/2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alison L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694972.JJK

Shipment ID Number: 9750-04-0006

Shipment Date: 10/20/2020

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross WT (kg)	NET WT (lb)	NET WT (kg)
9b.1	121999	121999-01	PAD20C44051	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	02/11/20	6.2	480	218	424	192
		Totals	1			6.2	480	218	424	192

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

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694974 JJK					
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053						
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc				U.S. EPA ID Number KYD000735845						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982588898						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3562 MBq, Fissile Excepted		1		14143	K	D007	D008	
		2.								
		3.								
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.										
14. Special Handling Instructions and Additional Information Railcar No: GIMX009722 Accumulation Start Date: 09/15/20 PCB Start Date: 09/15/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02328 Shipment ID: 3750-01-0056										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name: <u>LaChelle Telfair on behalf of FRNP</u> Signature: <u>[Signature]</u> Month: <u>10</u> Day: <u>13</u> Year: <u>20</u>										
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: <u>LaChelle Telfair on behalf of PAC</u> Signature: <u>[Signature]</u> Month: <u>10</u> Day: <u>13</u> Year: <u>20</u> Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____									
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____									
	18c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. <u>H132</u> 2. _____ 3. _____ 4. _____										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: <u>Justin Lee</u> Signature: <u>[Signature]</u> Month: <u>11</u> Day: <u>16</u> Year: <u>20</u>										

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

RECEIVED 11/9/2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alison L. Hugon

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894974.JJK

Shipment ID Number: 9750-01-0056

Shipment Date: 10/13/2020

URRM Section	RFID	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (B3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-51	PAD20C44954	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/15/20	09/15/20	450	38,680	17,545	31,180	14,143	3,562
		Totals	1				450	38,680	17,545	31,180	14,143	3,562

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

Please print or type.

Form Approved. OMB No. 2060-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008992	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694975 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598998					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes	
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3085 MBq, Fissile Excepted		No.	Type	12247	K	D007	D008
		2.							
		3.							
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>									
<p>14. Special Handling Instructions and Additional Information Railcar No: GIMX009722 Accumulation Start Date: 09/16/20 PCB Start Date: 09/16/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02329 Shipment ID: 9790-01-0054</p>									
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>									
Generator's/Offeror's Printed/Typed Name <i>LaChelle Telfair on behalf of FRNP</i>				Signature <i>LaChelle Telfair</i>				Month Day Year <i>10 13 20</i>	
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of export: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____</p>									
<p>17. Transporter Acknowledgment of Receipt of Materials</p>									
Transporter 1 Printed/Typed Name <i>LaChelle Telfair on behalf of FRNP</i>				Signature <i>LaChelle Telfair</i>				Month Day Year <i>10 13 20</i>	
Transporter 2 Printed/Typed Name <i>10-13-20</i>				Signature <i>LaChelle Telfair</i>				Month Day Year <i>10 13 20</i>	
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____</p> <p>Facility's Phone: _____</p> <p>18c. Signature of Alternate Facility (or Generator) Month Day Year _____</p>									
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. H132 2. _____ 3. _____ 4. _____</p>									
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p> <p>Printed/Typed Name Signature Month Day Year <i>Justin Lee</i> <i>Justin Lee</i> <i>11 6 20</i></p>									

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

RECEIVED 11/9/2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alison L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 0198948761JK 10-11-20

Shipment ID Number: 9750-01-0054

Shipment Date: 10/13/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-52	PAD20C44955	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/18/20	09/18/20	400	34,500	15,649	27,000	12,247	3,085
Totals				1			400	34,500	15,649	27,000	12,247	3,085

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

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694976 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053				
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84028 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number 1a UTD982598898				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		UN 3521, Waste, Radioactive material, Low Specific Activity (LSA-I), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3953 MBq, Fissile Excepted		No. Type	16694	K	D007 D008	
		2.						
		3.						
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.								
14. Special Handling Instructions and Additional Information Railcar No: GIMX009722 Accumulation Start Date: 09/15/20 PCB Start Date: 09/15/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02330 Shipment ID: 9790-01-0067								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offero's Printed/Typed Name Lochelle Telfair on behalf of FRNP Signature Lochelle Telfair Month Day Year 10 13 20								
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Lochelle Telfair on behalf of PAL Signature Lochelle Telfair Month Day Year 10 13 20							
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number: _____							
	18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____ Facility's Phone: _____							
	18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Justin Lee Signature Justin Lee Month Day Year 11 6 20								

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

RECEIVED 11/9/2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alison R. Fugan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894976JJK

Shipment ID Number: 9750-01-0057

Shipment Date: 10/13/2020

UNHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity (MBe)
9b.1	122023	122023-53	PAD20C4485	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/15/20	09/15/20	830	42,100	19,096	34,600	15,694	3,953
Totals			1				630	42,100	19,096	34,600	15,694	3,953

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

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694977 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053			
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1	JN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, D007, PCB, Np-237, To-99, Th-230, U-234, Solid/Oxide, 3718 MBq, fissile Excepted	1	CM	14780	K	D007 D008
	2						
	3						
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004835, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004835.</p>							
<p>14. Special Handling Instructions and Additional Information Railcar No: GIMX009722 Accumulation Start Date: 09/15/20 PCB Start Date: 09/15/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pm02327 Shipment ID: 9750-01-0000</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP				Signature <i>[Signature]</i>		Month Day Year 10 13 20	
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Lochelle Telfair on behalf of PAL Transporter 2 Printed/Typed Name _____ Signature <i>[Signature]</i> Month Day Year 10 13 20						
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number _____						
	18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Justin Lee				Signature <i>[Signature]</i>		Month Day Year 11 16 20	

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

RECEIVED 11/9/2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

[Signature]

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694877JJK

Shipment ID Number: 9750-01-0055

Shipment Date: 10/13/2020

URWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-50	PAD20C44953	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/15/20	09/15/20	600	40,040	18,162	32,540	14,780	3,718
		Totals	1				600	40,040	18,162	32,540	14,780	3,718

Equal Employment Opportunity, all provisions of the Executive Order 11248, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694978 JJK					
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053						
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc				U.S. EPA ID Number KYD000735845						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 48, Clive, UT 84028 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 2308 MBq, Fissile Excepted		No.	Type	9163	K	D007	D008	
		2.								
		3.								
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.										
14. Special Handling Instructions and Additional Information Railcar No.: GIMX516118 Accumulation Start Date: 09/14/20 PCB Start Date: 09/14/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02333 Shipment ID: 9750-01-0061										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP							Signature <i>Lochelle Telfair</i>			Month Day Year 10 13 20
TRANSPORTER (INTL)	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Lochelle Telfair on behalf of PAC									
Signature <i>Lochelle Telfair</i>							Month Day Year 10 13 20			
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number:										
DESIGNATED FACILITY	18b. Alternate Facility (or Generator) U.S. EPA ID Number									
	Facility's Phone:									
	18c. Signature of Alternate Facility (or Generator)							Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H132			2.			3.			4.	
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Justin Lee							Signature <i>Justin Lee</i>			Month Day Year 11 6 20

Alicia R. Jugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694800JK

Shipment ID Number: 9750-01-0061

Shipment Date: 10/13/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-44	PAD20C44847	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/14/20	09/14/20	450	27,700	12,564	20,200	9,163	2,308
Totals				1			450	27,700	12,564	20,200	9,163	2,308

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694979 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 48, Clive, UT 84028 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	JN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3825 MBq, Fissile Exempted			No.	Type	15196	K	D007	D008
	2.								
	3.								
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.									
14. Special Handling Instructions and Additional Information Railcar No: GIMX516118 Accumulation Start Date: 09/14/20 PCB Start Date: 09/14/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info Pmo2331 Shipment ID: 9790-01-0080									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Lachelle Telfair on behalf of FRNP				Signature <i>Lachelle Telfair</i>		Month Day Year 10 13 20			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Lachelle Telfair on behalf of PAL Signature <i>Lachelle Telfair</i> Month Day Year 10 13 20 Transporter 2 Printed/Typed Name Signature Month Day Year									
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Justin Lee Signature <i>Justin Lee</i> Month Day Year 11 16 20									

Missy L. Juge

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 0196949011K

Shipment ID Number: 9750-01-0080

Shipment Date: 10/13/2020

URWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (RS)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-45	PAD20C44648	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/14/20	09/14/20	600	40,980	18,588	33,480	15,186	3,825
Totals				1			600	40,980	18,588	33,480	15,186	3,825

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890009882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694980 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053				
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc			U.S. EPA ID Number KYD000735845				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155			U.S. EPA ID Number UTD982508928				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1. JN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3850 MBq, 2155L Exceeded	1	CM	15286	K	D007 D008
		3.					
		14. Special Handling Instructions and Additional Information Railcar No: GIMX516118 Accumulation Start Date: 09/14/20 PCB Start Date: 09/14/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 Exclusive Use Shipment. See Attachment for Additional Info. Pm02334 15. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Officer's Printed/Typed Name LaShelle Taylor on behalf of FRNP		Signature <i>LaShelle Taylor</i>		Month Day Year 10 13 20			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name LaShelle Taylor on behalf of P PAL		Signature <i>LaShelle Taylor</i>		Month Day Year 10 13 20			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name Justin Lee		Signature <i>Justin Lee</i>		Month Day Year 11 6 20			

RECEIVED 11/9/2020

Alvin L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694880JJK

Shipment ID Number: 9750-01-0058

Shipment Date: 10/13/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-46	PAD20C44849	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/14/20	09/14/20	600	41,200	18,688	33,700	15,286	3,850
Totals			1				600	41,200	18,688	33,700	15,286	3,850

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

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694981 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053				
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)			U.S. EPA ID Number KYD000735845				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84028 Facility's Phone: 1-435-884-0155			U.S. EPA ID Number UTD982598888				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1N 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, D007, PCB, Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 2623 MBq, Fissile Excepted	1	CM	10414	K	D007 D008
		2.					
		3.					
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>							
<p>14. Special Handling Instructions and Additional Information Railcar No: GIMX516118 Accumulation Start Date: 09/14/20 PCB Start Date: 09/14/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PMO2332 Shipment ID: 9750-01-0059</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Offeror's Printed/Typed Name <i>Lochelle Telfair on behalf of FRNP</i>		Signature <i>[Signature]</i>		Month Day Year <i>10 13 20</i>			
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____</p>							
<p>17. Transporter Acknowledgment of Receipt of Materials</p>							
Transporter 1 Printed/Typed Name <i>Lochelle Telfair on behalf of PAL</i>		Signature <i>[Signature]</i>		Month Day Year <i>10 13 20</i>			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>Manifest Reference Number: _____ U.S. EPA ID Number _____</p>							
<p>18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____</p> <p>Facility's Phone: _____</p>							
<p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>							
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. H132 2. _____ 3. _____ 4. _____</p>							
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p> <p>Printed/Typed Name <i>Justin Lee</i> Signature <i>[Signature]</i> Month Day Year <i>11 6 20</i></p>							

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

RECEIVED 11/9/2020

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alicia L. Hagan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: D196948951JK
 Shipment ID Number: 9750-01-0059

Shipment Date: 10/13/2020

UHM Section	RFID	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (K3)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity MBq
9b.1	122023	122023-47	PAD20C44850	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/14/20	09/14/20	400	30,460	13,816	22,960	10,414	2,823
Totals				1			400	30,460	13,816	22,960	10,414	2,823

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

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694982 JJK					
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053						
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address Energy Solutions Waste Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 1-435-884-0155 Facility's Phone:				U.S. EPA ID Number UTD982598998						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3153 MBq, Fissile Exempted		1		CM	12519	K	D007 D008	
		2.								
		3.								
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004885, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004885.</p>										
<p>14. Special Handling Instructions and Additional Information Railcar No: GIMX516175 Accumulation Start Date: 09/16/20 PCB Start Date: 09/16/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pm02337 Shipment ID: 9790-01-0083</p>										
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>										
<p>Generator's/Offeror's Printed/Typed Name: Michelle Telfair on behalf of FRNP Signature: [Signature] Month: 10 Day: 13 Year: 20</p>										
TRANSPORTER INT'L	<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:</p>									
	<p>17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Michelle Telfair on behalf of PAL Signature: [Signature] Month: 10 Day: 13 Year: 20 Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:</p>									
DESIGNATED FACILITY	<p>18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number:</p>									
	<p>18b. Alternate Facility (or Generator) U.S. EPA ID Number: Facility's Phone:</p>									
	<p>18c. Signature of Alternate Facility (or Generator) Month: Day: Year:</p>									
	<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.</p>									
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name: Justin Lee Signature: [Signature] Month: 11 Day: 6 Year: 20</p>										

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

RECEIVED 11/6/2020 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alvin R. Fugan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894882JJK

Shipment ID Number: 9750-01-0083

Shipment Date: 10/13/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity MBq
9b.1	122023	122023-54	PAD20C44957	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/18/20	09/18/20	410	35,100	15,921	27,600	12,519	3,153
Totals				1			410	35,100	15,921	27,600	12,519	3,153

Equal Employment Opportunity, all provisions of the Executive Order 11248, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694983 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD962598998					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Th-230, U-234, Solid/Oxide, 3610 MBq, Fissile Excepted		No.	Type	14333	K	D007	D008
		2.							
		3.							
14. Remarks (Use only instructions in the back of this form) ERG # 162 In the event of an RQ Release, call 1-800-424-8902 Exclusive Use Shipment, See Attachment for Additional Info Accumulation Start Date: 09/16/20 PCB Start Date: 09/16/20 If undeliverable, return to generator Shipment ID: 9700-01-0082 Pmo2336									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Lachelle Telfair on behalf of FRNP Signature Month Day Year 10 13 20									
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Year Lachelle Telfair on behalf of PAL Signature Month Day Year 10 13 20									
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number									
18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year Justin Lee Signature 11 16 20									

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. RECEIVED 11/9/2020 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alisa L. Fugan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694883JJK

Shipment ID Number: 9750-01-0082

Shipment Date: 10/13/2020

URWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity Bq/g
9b.1	122023	122023-55	PAD20C44958	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/16/20	09/16/20	450	39,100	17,735	31,600	14,333	3,610
		Totals	1				450	39,100	17,735	31,600	14,333	3,610

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694984 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053			
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes	
		No.	Type			D007	D008
		1	CM				
		2.					
3.							
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 15, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>							
<p>14. Special Handling Instructions and Additional Information Railcar No: UMX516175 Accumulation Start Date: 09/18/20 PCB Start Date: 09/18/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02338 Shipment ID: 9750-01-0064</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Officer's Printed/Typed Name <i>Lochelle Telfair on behalf of FRNP</i>				Signature <i>Lochelle Telfair</i>		Month Day Year <i>10 13 20</i>	
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>							
<p>17. Transporter Acknowledgment of Receipt of Materials</p>							
Transporter 1 Printed/Typed Name <i>Lochelle Telfair on behalf of PAL</i>				Signature <i>Lochelle Telfair</i>		Month Day Year <i>10 13 20</i>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>Manifest Reference Number: _____ U.S. EPA ID Number _____</p>							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. <i>H132</i> 2. 3. 4.</p>							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a				Signature <i>Justin Lee</i>		Month Day Year <i>11 6 20</i>	
Printed/Typed Name <i>Justin Lee</i>				Signature		Month Day Year	

RECEIVED 11/9/2020

Alison R. Jegen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 018594984JK

Shipment ID Number: 9750-01-0064

Shipment Date: 10/13/2020

UNHM 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 Bq/g
9b.1	122023	122023-58	PAD20C44959	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/18/20	09/18/20	580	42,980	19,495	35,480	16,093	4,053
Totals				1			580	42,980	19,495	35,480	16,093	4,053

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

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8990009982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694985 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC. (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310		Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc		U.S. EPA ID Number KYD000735845					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 1-435-884-0155 Facility's Phone:		U.S. EPA ID Number UTD982598898					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3839 MBq, Fissile Excepted	1	CM	16241	K	D007 D008
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste. In accordance with RCRA requirements, transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>							
<p>14. Special Handling Instructions and Additional Information Railcar No: GIMX516175 Accumulation Start Date: 09/18/20 PCB Start Date: 09/18/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02335 Shipment ID: 9730-01-0065</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Offoror's Printed/Typed Name Lachelle Telfair on behalf of FRNP		Signature <i>Lachelle Telfair</i>				Month Day Year 16 13 20	
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>							
TRANSPORTER INT'L	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Lachelle Telfair on behalf of PAC		Signature <i>Lachelle Telfair</i>				Month Day Year 16 13 20
Transporter 2 Printed/Typed Name		Signature				Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
	Facility's Phone:		18c. Signature of Alternate Facility (or Generator)				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Justin Lee		Signature <i>Justin Lee</i>				Month Day Year 11 16 20	

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. RECEIVED 11/9/2020 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Alvin L. Hagan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894985JK

Shipment ID Number: 9750-01-0065

Shipment Date: 10/13/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (K3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-57	PAD20C44960	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/18/20	09/18/20	400	41,100	18,643	33,600	15,241	3,839
Totals				1			400	41,100	18,643	33,600	15,241	3,839

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694986 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598888					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3219 MBq, Fissile Excepted		No.	Type	12782	K	D007	D008
		2.							
		3.							
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>									
<p>14. Special Handling Instructions and Additional Information Railcar No: GIMX009703 Accumulation Start Date: 09/14/20 PCB Start Date: 09/14/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02345 Shipment ID: 9750-01-0066</p>									
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>									
<p>Generator's/Offoror's Printed/Typed Name: LoChelle Telfair on behalf of FRNP Signature: [Signature] Month Day Year: 10 13 20</p>									
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:</p>									
<p>17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: LoChelle Telfair on behalf of PAL Signature: [Signature] Month Day Year: 10 13 20 Transporter 2 Printed/Typed Name: Signature: Month Day Year:</p>									
<p>18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number:</p>									
<p>18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year</p>									
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.</p>									
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Justin Lee Signature: [Signature] Month Day Year: 11 12 20</p>									

Alvin L. Tugan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894986.JJK

Shipment ID Number: 9750-01-0086

Shipment Date: 10/13/2020

UHWM Section	RPD	Container/WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity MBq
9b.1	122023	122023-48	PAD20C44951	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/14/20	09/14/20	520	35,680	16,184	28,180	12,782	3,219
		Totals		1			520	35,680	16,184	28,180	12,782	3,219

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694987 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 4050 MBq, Fissile Excepted		No.	Type	16080	K	D007	D008
		2.							
		3.							
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004855, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004855.</p>									
14. Special Handling Instructions and Additional Information Railcar No: GIMX009703 Accumulation Start Date: 09/22/20 PCB Start Date: 09/22/20 ERG #162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info H13 PM02348 Shipment ID: 9750-01-0069									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name <i>Lochelle Telfair on behalf of FRNP</i>				Signature <i>Lochelle Telfair</i>				Month Day Year <i>10 13 20</i>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____									
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <i>Lochelle Telfair on behalf of PAL</i> Signature <i>Lochelle Telfair</i> Month Day Year <i>10 13 20</i> Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____									
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number _____ 18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. _____ 3. _____ 4. _____									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name <i>Justin Lee</i> Signature <i>Justin Lee</i> Month Day Year <i>11 12 20</i>									

RECEIVED 11/16/2020
Alissa L. Hugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019594987.JJK

Shipment ID Number: 9750-01-0069

Shipment Date: 10/13/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (G)	GROSS WT (Lb)	Gross Wt (Kg)	NET WT (Lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-80	PAD20C44983	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/22/20	09/22/20	620	43,340	19,659	35,450	16,080	4,050
Totals			1				620	43,340	19,659	35,450	16,080	4,050

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694988 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)			U.S. EPA ID Number KYD000735845					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155			U.S. EPA ID Number UTD982598898					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3238 MBq, Fissile Excepted	No.	Type	12848	K	D007	D008
	2.							
	3.							
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>								
<p>14. Special Handling Instructions and Additional Information Railcar No: GIMX009703 Accumulation Start Date: 09/22/20 PCB Start Date: 09/22/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02347 Shipment ID: 9790-01-0088</p>								
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's/Offeror's Printed/Typed Name Lashelle Telfair on behalf of FRNP			Signature <i>Lashelle Telfair</i>			Month Day Year 10 13 20		
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>								
<p>17. Transporter Acknowledgment of Receipt of Materials</p>								
Transporter 1 Printed/Typed Name Lashelle Telfair on behalf of PAL			Signature <i>Lashelle Telfair</i>			Month Day Year 10 13 20		
Transporter 2 Printed/Typed Name			Signature			Month Day Year		
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>Manifest Reference Number: _____ U.S. EPA ID Number _____</p>								
<p>18b. Alternate Facility (or Generator) Facility's Phone: _____</p>								
<p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>								
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. H132 2. 3. 4.</p>								
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p>								
Printed/Typed Name Justin Lee			Signature <i>Justin Lee</i>			Month Day Year 11 12 20		

Alison L. Fugan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894988JJK

Shipment ID Number: 8750-01-0068

Shipment Date: 10/13/2020

URHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity (Bq)
9b.1	122023	122023-61	PAD20C44964	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/22/20	09/22/20	600	37,620	17,064	28,325	12,848	3,236
		Totals	1				600	37,620	17,064	28,325	12,848	3,236

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694989 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053				
6. Generator's Phone: 270-441-5310				U.S. EPA ID Number KYD000735845				
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029				U.S. EPA ID Number UTD982598898				
Facility's Phone: 1-435-884-0155				U.S. EPA ID Number				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-98, Th-230, U-234, Solid/Oxide, 3334 MBq, Fissile Excepted	No.	Type			D007 D008	
		2.						
		3.						
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>								
<p>14. Special Handling Instructions and Additional Information Radioactive Material - GIMX009703 Accumulation Start Date: 09/24/20 PCB Start Date: 09/24/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02346 Shipment ID: 9790-01-0087</p>								
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's/Offeror's Printed/Typed Name Michelle Telfair on behalf of FRNP				Signature <i>Michelle Telfair</i>		Month Day Year 10 13 20		
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____</p>								
<p>17. Transporter Acknowledgment of Receipt of Materials</p>								
TRANSPORTER	Transporter 1 Printed/Typed Name Michelle Telfair on behalf of PAL				Signature <i>Michelle Telfair</i>		Month Day Year 10 13 20	
	Transporter 2 Printed/Typed Name				Signature		Month Day Year	
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p style="text-align: right;">Manifest Reference Number: _____ U.S. EPA ID Number _____</p>								
<p>18b. Alternate Facility (or Generator) Facility's Phone: _____ U.S. EPA ID Number _____</p>								
<p>18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____</p>								
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. H132 2. _____ 3. _____ 4. _____</p>								
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p>								
Printed/Typed Name Justin Lee				Signature <i>Justin Lee</i>		Month Day Year 11 12 20		

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894688JJK

Shipment ID Number: 9750-01-0067

Shipment Date: 10/13/2020

UHMW Section	RFID	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (R3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity (Bq)
0b.1	122023	122023-62	PAD20C44965	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/24/20	09/24/20	500	38,480	17,454	29,185	13,238	3,334
Totals				1			500	38,480	17,454	29,185	13,238	3,334

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11975, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694990 JJK			
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053					
Generator's Phone: 270-441-5310			U.S. EPA ID Number KYD000735845					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)			U.S. EPA ID Number					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029			U.S. EPA ID Number UTD982508808					
Facility's Phone: 1-435-884-0155								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3794 MBq, Fissile Excepted		No.	Type				D007 D008
			1	CM	15084	K		
	2.							
3.								
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>								
<p>14. Special Handling Instructions and Additional Information Railcar No: GCCX200011 Accumulation Start Date: 09/22/20 PCB Start Date: 09/22/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See Attachment for Additional Info PM02342 Shipment ID: 9790-01-0074</p>								
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's Offeror's Printed/Typed Name Lochell Telfair on behalf of FRNP			Signature <i>Lochell Telfair</i>		Month 10	Day 22	Year 20	
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____</p>								
<p>17. Transporter Acknowledgment of Receipt of Materials</p>								
Transporter 1 Printed/Typed Name Lochell Telfair on behalf of PAL			Signature <i>Lochell Telfair</i>		Month 10	Day 22	Year 20	
Transporter 2 Printed/Typed Name			Signature		Month	Day	Year	
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p>								
<p>18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____</p>								
<p>Facility's Phone: _____</p>								
18c. Signature of Alternate Facility (or Generator)					Month	Day	Year	
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p>								
1.	2.	3.	4.					
H132								
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p>								
Printed/Typed Name Justin Lee			Signature <i>Justin Lee</i>		Month 11	Day 10	Year 20	

Alvin L. Tugan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019894990JJK

Shipment ID Number: 9750-01-0074

Shipment Date: 10/22/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-56	PAD20C44961	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/22/20	09/22/20	600	41,100	18,643	33,210	15,064	3,794
Totals				1			600	41,100	18,643	33,210	15,064	3,794

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694991 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 4388 MBq, Fissile Exempted		1 1 CM		17413	K	D007 D008	
		2.							
		3.							
		4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.							
14. Special Handling Instructions and Additional Information Railcar No: GCCX200011 Accumulation Start Date: 09/22/20 PCB Start Date: 09/22/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02344 Shipment ID: 9750-01-0071									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/packaged, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP									
Signature Lochelle Telfair									
Month Day Year 10 22 20									
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Lochelle Telfair on behalf of PAL									
Signature Lochelle Telfair									
Month Day Year 10 22 20									
Transporter 2 Printed/Typed Name									
Signature									
Month Day Year									
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Justin Lee									
Signature Justin Lee									
Month Day Year 11 10 20									

Alisa L. Fugan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694991JJK

Shipment ID Number: 9750-01-0071

Shipment Date: 10/22/2020

URWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (R3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-59	PAD20C44962	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/22/20	09/22/20	670	46,280	20,992	38,390	17,413	4,386
Totals				1			670	46,280	20,992	38,390	17,413	4,386

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694992 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053					
Generator's Phone: 270-441-5310				U.S. EPA ID Number KYD000735845					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 48, Clive, UT 84029				U.S. EPA ID Number UTD982598888					
Facility's Phone: 1-435-884-0155				U.S. EPA ID Number					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 3616 MBq, Fissile Excepted		No.	Type	14356	K	D007	D008
14. Special Handling Instructions and Additional Information Railcar No: GCCX200011 Accumulation Start Date: 09/24/20 PCB Start Date: 09/24/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pm02341 Shipment ID: 9750-01-0073									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP				Signature <i>Lochelle Telfair</i>				Month Day Year 10 22 20	
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Lochelle Telfair on behalf of PAL				Signature <i>Lochelle Telfair</i>				Month Day Year 10 22 20
Transporter 2 Printed/Typed Name				Signature				Month Day Year	
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____								
	Facility's Phone: _____								
	18c. Signature of Alternate Facility (or Generator)							Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Justin Lee				Signature <i>Justin Lee</i>				Month Day Year 11 12 20	

Alison L. Hagan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694992JJK

Shipment ID Number: 9750-01-0073

Shipment Date: 10/22/2020

UNRM Section	RPD	Container / WASTE ID	Barcodes	Description	Accumulation Start Date	Date to Storage	NET VOLUME (R3)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity Bq/g
9b.1	122023	122023-03	PAD20C44989	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/24/20	09/24/20	620	39,540	17,935	31,600	14,356	3,616
		Totals	1				620	39,540	17,935	31,600	14,356	3,616

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694993 JJK				
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053					
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 3380 MBq, Fissile Exempted		No.	Type	13422	K	D007	D008
		2.							
		3.							
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.									
14. Special Handling Instructions and Additional Information Railcar No: GCCX20011 Accumulation Start Date: 09/28/20 PCB Start Date: 09/28/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info PM02340 Shipment ID: 9700-01-0072									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Lochelle Telfair on behalf of FRNP				Signature <i>Lochelle Telfair</i>				Month Day Year 10/22/20	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Lochelle Telfair on behalf of PAL				Signature <i>Lochelle Telfair</i>				Month Day Year 10/22/20	
Transporter 2 Printed/Typed Name				Signature				Month Day Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Justin Lee				Signature <i>Justin Lee</i>				Month Day Year 11/12/20	

Alan L. Hagen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 018894893JJK

Shipment ID Number: 8750-01-0072

Shipment Date: 10/22/2020

UHM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity MBq
9b.1	122023	122023-85	PAD20C44971	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/28/20	09/28/20	700	37,480	17,001	29,590	13,422	3,380
Totals				1			700	37,480	17,001	29,590	13,422	3,380

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 019694994 JJK		
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053			
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Energy Solutions Clive Disposal Site-Treatment Facility US I-80 Exit 48, Clive, UT 84028 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD982598898			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
RQ	1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7 (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 4262 MBq, Fissile Excepted	1		CM 16923	K	D007 D008	
	2.						
	3.						
<p>Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.</p>							
<p>14. Special Handling Instructions and Additional Information Railcar No.: GIMX516193 Accumulation Start Date: 09/25/20 PCB Start Date: 09/25/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pm02343 Shipment ID: 9750-01-0075</p>							
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>							
Generator's/Offeror's Printed/Typed Name Lachelle Telfair on behalf of FRNP				Signature <i>Lachelle Telfair</i>		Month Day Year 10 22 20	
<p>16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____</p>							
<p>17. Transporter Acknowledgment of Receipt of Materials</p>							
Transporter 1 Printed/Typed Name Lachelle Telfair on behalf of PAL				Signature <i>Lachelle Telfair</i>		Month Day Year 10 22 20	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
<p>18. Discrepancy</p> <p>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection</p> <p>Manifest Reference Number: _____</p>							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
<p>19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)</p> <p>1. H132 2. 3. 4.</p>							
<p>20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a</p>							
Printed/Typed Name Justin Lee				Signature <i>Justin Lee</i>		Month Day Year 11 10 20	

Alison L. Hagan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694994JJK

Shipment ID Number: 9750-01-0075

Shipment Date: 10/22/2020

UHWD Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross WT (Kg)	NET WT (lb)	Net WT (Kg)	Maximum Activity MBq
9b.1	122023	122023-64	PAD20C4497	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/25/20	09/25/20	475	45,200	20,502	37,310	16,923	4,262
Totals				1			475	45,200	20,502	37,310	16,923	4,262

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8333	4. Manifest Tracking Number 019694995 JJK					
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 270-441-5310				Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevil, KY 42053						
6. Transporter 1 Company Name Paducah & Louisville Railway, Inc (PAL)				U.S. EPA ID Number KYD000735845						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-884-0155				U.S. EPA ID Number UTD882598898						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, To-99, Th-230, U-234, Solid/Oxide, 2960 MBq, Fissile Excepted		No.	Type	11753	K	D007	D008	
		2.								
		3.								
4. Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DOE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DOE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.										
14. Special Handling Instructions and Additional Information Railcar No. GIMX516193 Accumulation Start Date: 09/25/20 PCB Start Date: 09/25/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info Pm02331 Shipment ID: 9750-01-0078										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name Signature Month Day Year LoChelle Telfair on behalf of FRNP LoChelle Telfair 10 22 20										
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:										
TRANSPORTER INT'L	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name Signature Month Day Year LoChelle Telfair on behalf of PAC LoChelle Telfair 10 22 20									
	Transporter 2 Printed/Typed Name Signature Month Day Year									
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
DESIGNATED FACILITY	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
	Facility's Phone:									
	18c. Signature of Alternate Facility (or Generator) Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H132 2. 3. 4.										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Signature Month Day Year Justin Lee Justin Lee 11 10 20										

Alison L. Jugen

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 018694985JJK

Shipment ID Number: 9750-01-0076

Shipment Date: 10/22/2020

UFWM Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (Kl)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	122023	122023-87	PAD20C4497	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	09/25/20	09/25/20	600	33,800	15,331	25,910	11,753	2,980
		Totals	1				600	33,800	15,331	25,910	11,753	2,980

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

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6333	4. Manifest Tracking Number 0196905
5. Generator's Name and Mailing Address Four Rivers Nuclear Partnership, LLC, (FRNP) on behalf of FRNP 5511 Hobbs Road, Kevill, KY 42053			Generator's Site Address (if different than mailing address) FRNP on behalf of the FRNP Paducah Gaseous Diffusion Plant 5511 Hobbs Rd, Kevill, KY 42053		
Generator's Phone: 270-441-5544			U.S. EPA ID Number TNR000011247		
6. Transporter 1 Company Name Specialty Transport Inc.			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 48, Clive, UT 84028			U.S. EPA ID Number		
Facility's Phone: 1-435-884-0155			UTD82568898		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN 3321, Waste, Radioactive material, Low Specific Activity (LSA-II), 7, (D007, PCB), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 1985 MBo, Fissile Excepted	1 CM	7802	K	D007 D008
14. Special Handling Instructions (including placarding): TID: N/A Accumulation Start Date: 10/16/20 PCB Start Date: 10/16/20 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment, See Attachment for Additional Info #M02349 Shipment ID: 9750-01-0077					
15. GENERATOR/SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 49 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's Officer's Printed/Typed Name Regina Pen on behalf of FRNP		Signature Regina Pen		Month Day Year 11 10 20	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Doris Kunkel		Signature Doris Kunkel		Month Day Year 11 10 20	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number					
Facility's Phone: Month Day Year					
18c. Signature of Alternate Facility (or Generator) Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1. H132		2.		3. 4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a					
Printed/Typed Name Scott A. Gleason		Signature Scott A. Gleason		Month Day Year 11 13 20	

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

RECEIVED 11/13/2020 DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM
Alvin L. Logan

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019695015JJK

Shipment ID Number: 9750-01-0077

Shipment Date: 11/10/2020

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Accumulation Start Date	Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq	
9b.1	122023	122023-68	PAD20C45079	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	10/16/20	10/16/20	500	24,700	11,204	17,200	7,802	1,965	
Totals							1	500	24,700	11,204	17,200	7,802	1,965

APPENDIX B

PCB WASTE CERTIFICATES OF DISPOSAL

THIS PAGE INTENTIONALLY LEFT BLANK

EPA ID # TND982109142

DIVERSIFIED SCIENTIFIC SERVICES, INC.



COD Number: TSDSSI-19-020-20191210

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, Tennessee is providing this certificate to confirm the disposal of TSCA Regulated PCB waste by Alternate Thermal Treatment (40CFR 761.60(e)).

Hereby certifies such destruction on: 12/10/2019

Attached list of containers from Shipment Number DSSI-19-020

Shipped on Hazardous Waste Manifest Number 019694567JJK

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

EPA ID No. KY8890008982

Address 5511 Hobbs Road

Contact Kevil, KY 42053-
Regina Pea



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

By: Jon Keplinger
Title: Waste Tracking Representative

Signature: Jon Keplinger

Digitally signed by Jon Keplinger
Date: 2020.01.08 13:51:19 -05'00'

B-3

Certificate of Disposal

TSDSSI-19-020-20191210

Shipment Number	Haz Manifest Number	WPS Number	Package Number	Item Number	Date Processed	Generator Code	Waste Code	Date Received
DSSI-19-020	019694567JJK	19-02-015	78858	121255-02	12/10/2019	KYFLU01	Bulk Liquid - PCBs	2/28/2019
DSSI-19-020	019694567JJK	19-02-015	78859	121423-02	12/10/2019	KYFLU01	Bulk Liquid - PCBs	2/28/2019
DSSI-19-020	019694567JJK	19-02-015	78860	121423-03	12/10/2019	KYFLU01	Bulk Liquid - PCBs	2/28/2019
DSSI-19-020	019694567JJK	19-02-015	78861	121423-04	12/10/2019	KYFLU01	Bulk Liquid - PCBs	2/28/2019

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0005	94693	11/12/2019	37.5	Landfill	Mixed Waste

RECEIVED
JAN 31 2020
BY: 

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

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



Brian Beynon
Nov 18 2019 4:01 PM

Brian Beynon
Operations Manager

Date

EPA ID # TND982109142

DIVERSIFIED SCIENTIFIC SERVICES, INC.



COD Number: TSDSSI-19-087-20200130

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, Tennessee is providing this certificate to confirm the disposal of TSCA Regulated PCB waste by Alternate Thermal Treatment (40CFR 761.60(e)).

Hereby certifies such destruction on: 1/30/2020

Attached list of containers from Shipment Number DSSI-19-087

Shipped on Hazardous Waste Manifest Number 019694647JJK

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

EPA ID No. KY8890008982

Address 5511 Hobbs Road

Contact Kevil, KY 42053-
Regina Pea



By: Ralph Sheffield

Title: Waste Tracking Representative

Signature: _____

Digitally signed by Ralph Sheffield
Date: 2020.01.30 14:46:12 -05'00'

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

Certificate of Disposal
TSDSSI-19-087-20200130

Shipment Number	Haz Manifest Number	WPS Number	Package Number	Item Number	Burn Campaign Number	Date Processed	Generator Code	Waste Code	Date Received
DSSI-19-087	019694647JJK	19-02-015	79793	121423-05	20-001	1/30/2020	KYFLU01	Bulk Liquid - PCBs	8/22/2019
DSSI-19-087	019694647JJK	19-02-015	79794	121423-06	20-001	1/30/2020	KYFLU01	Bulk Liquid - PCBs	8/22/2019



Clean Harbors Deer Park, LLC
 2027 Independence Parkway South
 La Porte TX, 77571
 TXD055141378
 (281) 930-2300

CERTIFICATE OF DISPOSAL

Manifest Mailing Name: Four Rivers Nuclear Partnership, LLC
 Manifest Mailing Address: 5511 Hobbs Road Job Address: 5511 Hobbs Road
 Kevil, KY, 42053 Kevil, KY 42053
 Customer Contact Name: Mrs Chelle Telfair

Date Received: 6/15/2019

Generator EPA ID: KY8890008982 Load #: 410806
 Sales Order#: 1902715534 Manifest #: 013496416FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
80397264	3/12/2019	DM	121734-01 /	High Btu PCB Liquids For Incineration	8/20/2019	Incineration	Deer Park, TX Facility
80397265	3/20/2019	DM	121734-02 /	High Btu PCB Liquids For Incineration	7/22/2019	Incineration	Deer Park, TX Facility
80397266	3/28/2019	DM	121734-03 /	High Btu PCB Liquids For Incineration	7/22/2019	Incineration	Deer Park, TX Facility
80397267	4/3/2019	DM	121734-04 /	High Btu PCB Liquids For Incineration	7/22/2019	Incineration	Deer Park, TX Facility
80397268	4/15/2019	DM	121734-05 /	High Btu PCB Liquids For Incineration	8/16/2019	Incineration	Deer Park, TX Facility
80397269	4/23/2019	DM	121734-06 /	High Btu PCB Liquids For Incineration	7/22/2019	Incineration	Deer Park, TX Facility
80397270	4/23/2019	DM	121734-07 /	High Btu PCB Liquids For Incineration	8/16/2019	Incineration	Deer Park, TX Facility
80397271	5/5/2019	DM	121734-08 /	High Btu PCB Liquids For Incineration	8/15/2019	Incineration	Deer Park, TX Facility
80397272	5/6/2019	DM	121734-09 /	High Btu PCB Liquids For Incineration	9/6/2019	Incineration	Deer Park, TX Facility

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

Authorized Agent

Monday, September 09, 2019

Date

RECEIVED 4/7/2020

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0008	94743	04/09/2020	7.5	Landfill	Mixed Waste
9750-01-0010	94796	04/09/2020	798.0	Landfill	Mixed Waste
9750-01-0012	94798	04/09/2020	798.0	Landfill	Mixed Waste

RECEIVED 4/27/2020



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
 Apr 10 2020 11:42 AM

 Brian Beynon
 Operations Manager

 Date 

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0006	94843	04/27/2020	7.5	Landfill	Mixed Waste

RECEIVED 5-29-2020



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
Apr 28 2020 3:33 PM

Brian Beynon
Operations Manager

cosign
Date

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

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0014	4810	06/11/2020	798.0	Landfill	Mixed Waste
9750-01-0015	94819	06/15/2020	798.0	Landfill	Mixed Waste
9750-01-0017	94821	06/08/2020	798.0	Landfill	Mixed Waste
9750-01-0018	94822	06/11/2020	798.0	Landfill	Mixed Waste
9750-01-0020	94824	06/08/2020	798.0	Landfill	Mixed Waste
9750-01-0022	94838	06/08/2020	798.0	Landfill	Mixed Waste
9750-01-0023	94839	06/08/2020	798.0	Landfill	Mixed Waste
9750-01-0024	94840	06/15/2020	798.0	Landfill	Mixed Waste
9750-01-0025	94841	06/11/2020	798.0	Landfill	Mixed Waste
9750-01-0028	94852	06/08/2020	798.0	Landfill	Mixed Waste

RECEIVED 6/17/2020



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 16 2020 11:39 AM

cosign

 Brian Beynon
 Operations Manager

 Date

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0013	4809	06/04/2020	798.0	Landfill	Mixed Waste
9750-01-0019	4823	06/04/2020	798.0	Landfill	Mixed Waste
9750-01-0021	94825	06/04/2020	798.0	Landfill	Mixed Waste

RECEIVED 6/17/2020



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 9 2020 4:26 PM

 Brian Beynon
 Operations Manager

 cosign
 Date

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0016	94820	06/18/2020	798.0	Landfill	Mixed Waste
9750-01-0026	94850	06/18/2020	798.0	Landfill	Mixed Waste
9750-01-0027	94851	06/18/2020	798.0	Landfill	Mixed Waste

RECEIVED 6/23/2020



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 23 2020 10:28 AM

cosign

 Brian Beynon
 Operations Manager

 Date

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0009	94786	06/22/2020	798.0	Landfill	Mixed Waste
9750-01-0011	94797	06/22/2020	798.0	Landfill	Mixed Waste

RECEIVED 6/26/2020



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 25 2020 2:37 PM

 Brian Beynon
 Operations Manager

 Date

cosign

CERTIFICATE OF DISPOSAL

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

DOE, Paducah

This certificate acknowledges that the following manifested shipments represent waste that has been disposed of at EnergySolutions' listed disposal facility below.

Search No	Disposal Facility	Disposal Date
7340-08-0007	MW Embankment	07/21/2020
Total	1	45.00 cf

RECEIVED 7/29/2020



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 28 2020 4:46 PM



Date

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0009	94891	08/11/2020	111.0	Landfill	Mixed Waste

RECEIVED 8-18-2020



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
Aug 17 2020 8:15 AM

cosign

Brian Beynon
Operations Manager

Date

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0030	4889	09/28/2020	686.0	Landfill	Mixed Waste
9750-01-0031	94900	09/28/2020	686.0	Landfill	Mixed Waste
9750-01-0033	94902	09/28/2020	686.0	Landfill	Mixed Waste
9750-01-0034	4905	09/24/2020	686.0	Landfill	Mixed Waste
9750-01-0035	4906	09/28/2020	686.0	Landfill	Mixed Waste
9750-01-0036	94907	09/28/2020	686.0	Landfill	Mixed Waste
9750-01-0037	94908	09/24/2020	686.0	Landfill	Mixed Waste

5/17/21 PK5

RECEIVED 9-30-2020

Alisa R. Hagan

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
 Sep 29 2020 3:18 PM

cosign

 Brian Beynon
 Operations Manager

 Date

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0032	4901	10/19/2020	686.0	Landfill	Mixed Waste
9750-01-0050	94962	10/19/2020	686.0	Landfill	Mixed Waste

RECEIVED 10/26/2020



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
 Oct 22 2020 11:36 AM

 Brian Beynon
 Operations Manager

 Date



CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0038	94846	10/22/2020	686.0	Landfill	Mixed Waste
9750-01-0039	94847	10/22/2020	686.0	Landfill	Mixed Waste
9750-01-0040	94848	10/22/2020	686.0	Landfill	Mixed Waste
9750-01-0041	94849	10/22/2020	686.0	Landfill	Mixed Waste

RECEIVED 10/30/2020

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
 Oct 29 2020 2:58 PM

cosign

 Brian Beynon
 Operations Manager

 Date

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

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0070	94968	11/02/2020	96.0	Landfill	Mixed Waste

RECEIVED 11/3/2020



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
Nov 3 2020 3:16 PM

cosign

Brian Beynon
Operations Manager

Date

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
7340-08-0010	94971	11/03/2020	15.0	Landfill	Mixed Waste

RECEIVED 11/9/2020



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
Nov 6 2020 3:35 PM

Brian Beynon
Operations Manager

Date

cosign

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0042	94938	11/05/2020	686.0	Landfill	Mixed Waste

RECEIVED 11/9/2020



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
 Nov 6 2020 3:37 PM



 Brian Beynon
 Operations Manager

 Date

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0043	94939	11/16/2020	686.0	Landfill	Mixed Waste
9750-01-0044	4944	11/16/2020	686.0	Landfill	Mixed Waste
9750-01-0045	4945	11/16/2020	686.0	Landfill	Mixed Waste
9750-01-0046	94946	11/12/2020	686.0	Landfill	Mixed Waste
9750-01-0047	94947	11/16/2020	686.0	Landfill	Mixed Waste
9750-01-0048	94948	11/16/2020	686.0	Landfill	Mixed Waste
9750-01-0049	94949	11/16/2020	686.0	Landfill	Mixed Waste
9750-01-0051	94963	11/12/2020	686.0	Landfill	Mixed Waste
9750-01-0052	94964	11/12/2020	686.0	Landfill	Mixed Waste
9750-01-0053	94965	11/12/2020	686.0	Landfill	Mixed Waste
9750-01-0054	4975	11/19/2020	686.0	Landfill	Mixed Waste
9750-01-0055	4977	11/16/2020	686.0	Landfill	Mixed Waste
9750-01-0056	4974	11/19/2020	686.0	Landfill	Mixed Waste
9750-01-0057	4976	11/19/2020	686.0	Landfill	Mixed Waste
9750-01-0058	4980	11/19/2020	686.0	Landfill	Mixed Waste
9750-01-0059	4981	11/19/2020	686.0	Landfill	Mixed Waste
9750-01-0061	4978	11/19/2020	686.0	Landfill	Mixed Waste

RECEIVED 11/24/2020



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
 Nov 23 2020 2:31 PM

cosign

Brian Beynon
 Operations Manager

Date

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, 1-80
 Clive, Utah 84029
 EPA ID: UTD982598898

DOE , Paducah , Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/FU)</u>		<u>Disposal Location</u>
9750-01-0060	4979	11/23/2020	686.0	Landfill	Mixed Waste
9750-01-0062	4983	11/20/2020	686.0	Landfill	Mixed Waste
9750-01-0063	4982	11/20/2020	686.0	Landfill	Mixed Waste
9750-01-0064	4984	11/23/2020	686.0	Landfill	Mixed Waste
9750-01-0066	4986	11/20/2020	686.0	Landfill	Mixed Waste
9750-01-0067	4989	11/20/2020	686.0	Landfill	Mixed Waste
9750-01-0068	4988	11/20/2020	686.0	Landfill	Mixed Waste
9750-01-0069	4987	11/20/2020	686.0	Landfill	Mixed Waste
9750-01-0074	4990	11/23/2020	755.0	Landfill	Mixed Waste
9750-01-0077	95015	11/20/2020	686.0	Landfill	Mixed Waste

RECEIVED 12/1/2020



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

____: : : > Nov 30 2020 11:39 AM

cosign

 Brian Beynon
 Operations Manager

 Date

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-09-0008	94762	11/24/2020	22.5	Landfill	Mixed Waste
9750-09-0009	94827	11/24/2020	51.6	Landfill	Mixed Waste
9750-09-0010	94870	11/24/2020	7.5	Landfill	Mixed Waste
9750-09-0012	94914	11/20/2020	22.5	Landfill	Mixed Waste

RECEIVED 12/4/2020



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
 Nov 30 2020 11:39 AM

 Brian Beynon
 Operations Manager

 Date 

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

Shipment	Manifest	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
9750-01-0065	4985	11/30/2020	686.0	Landfill	Mixed Waste
9750-01-0071	4991	11/30/2020	755.0	Landfill	Mixed Waste
9750-01-0072	4993	11/30/2020	755.0	Landfill	Mixed Waste
9750-01-0073	4992	11/30/2020	686.0	Landfill	Mixed Waste
9750-01-0075	4995	11/30/2020	755.0	Landfill	Mixed Waste

5/17/21 PMS

RECEIVED 12/9/2020

Alvin L. Hugen

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
Dec 8 2020 4:30 PM

cosign

Date

Brian Beynon
Operations Manager

CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9750-01-0076	4995	12/10/2020	755.0	Landfill	Mixed Waste

RECEIVED 12/28/2020



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
 Dec 18 2020 8:57 AM

Brian Beynon
 Operations Manager

Date



EPA ID # TND982109142

DIVERSIFIED SCIENTIFIC SERVICES, INC.



COD Number: TSDSSI-19-105-20200930

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, Tennessee is providing this certificate to confirm the disposal of TSCA Regulated PCB waste by Alternate Thermal Treatment

Hereby certifies such destruction on: 9/30/2020

Attached list of containers from Shipment Number DSSI-19-105

Shipped on Hazardous Waste Manifest Number 019694703JJK

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

EPA ID No. KY8890008982

Address 5511 Hobbs Road

Contact Kevil, KY 42053-
LaChelle Telfair

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

By: **Ralph Sheffield**
Title: **Waste Tracking Representative**

Signature: **Ralph Sheffield**
Digitally signed by Ralph Sheffield
Date: 2020.10.05 09:55:22 -04'00'

RECEIVED 10/12/2020

A handwritten signature in cursive script, appearing to read 'Alvin L. Hugen'.

Certificate of Disposal

TSDSSI-19-105-20200930

Shipment Number	Haz Manifest Number	WPS Number	Package Number	Item Number	Burn Campaign Number	Date Processed	Generator Code	Waste Code	Date Received
DSSI-19-105	019694703JJK	19-09-064	80106	121645-01	20-008	9/30/2020	KYFLU01	Bulk Solid-PCB Labpack	9/27/2019



WASTE CONTROL SPECIALISTS

Certificate of Disposal

Date of Certificate: March 19, 2020

EPA ID Number TXR000075788

Regina Pea
WCS for Four Rivers Nuclear Partnership
5511 Hobbs Road
Kevil, KY 42053

Reference:

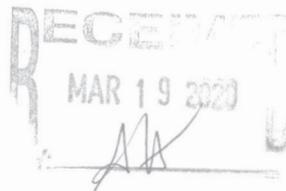
Transfer # **20-0313-03**
WCS Profile #: **WP-8931**
Manifest(s): **FWF-4RVR-8931-05 UHWM# 014974447JJK**
 (Original manifest: WCS-8931-0001 UHWM# 019694808JJK)
Received On: **March 18, 2020**

See table below for containers disposed. This COD completes the manifest.

This is to certify that the waste shipped to WCS on the above mentioned manifest was disposed of on **March 18, 2020** in the WCS Federal Waste Disposal Facility (FWF), a permitted hazardous waste landfill associated with the EPA ID Number above. Disposal is subject to the WCS Radioactive Material License R04100 along with all other applicable licenses, permits and regulations.

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

Sincerely,
WASTE CONTROL SPECIALISTS LLC



Tom Hannah
Technical Services Project Manager

Corporate
17101 Preston Rd. Ste. 115
Dallas, TX 75248
Ph. 682.503.0030
Fax. 214.853.5720

Federal Waste Disposal Facility Non-PCB Certificate of Disposal RM-3.2.2-5
Records Management
RM-3.2.2 Issuance of Certificates of Disposal/Treatment Effective Date 12/01/2016
Revision 3

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



WASTE CONTROL SPECIALISTS

Gen #	WCS #	Daughter #
121977-01	20-001149	20-001243
121546-04	20-001150	20-001228
121767-03	20-001151	20-001229
121849-01	20-001152	20-001230
121977-02	20-001153	20-001248
121849-02	20-001154	20-001226

Corporate
17101 Preston Rd. Ste. 115
Dallas, TX 75248
Ph. 682.503.0030
Fax. 214.853.5720

Federal Waste Disposal Facility Non-PCB Certificate of Disposal RM-3.2.2-5
Records Management
RM-3.2.2 Issuance of Certificates of Disposal/Treatment Effective Date 12/01/2016
Revision 3

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

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX C

PCB WASTE STORAGE AREA INSPECTION RECORDS

THIS PAGE INTENTIONALLY LEFT BLANK

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-333					
G-333-18		1/9/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		1/30/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		2/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		3/25/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		4/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-3

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-333-18		5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65(c)(5) 30 day inspection requirement has been documented and added to inspection records.
G-333-18		8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		11/10/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-18		12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-4

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-337					
G-337-02		1/2/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		1/30/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		2/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		4/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-5

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-02		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65(c)(5) 30 day inspection requirement has been documented and added to inspection records.
G-337-02		8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		11/10/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		1/2/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-6

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-03		1/30/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		2/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		4/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65(c)(5) 30 day inspection requirement has been documented and added to inspection records.

C-7

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-03		8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		11/10/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		1/2/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		1/30/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		2/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-8

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-PCB-02		3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		4/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65(c)(5) 30 day inspection requirement has been documented and added to inspection records.
G-337-PCB-02		8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

G-9

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-337-PCB-02	10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-337-PCB-02	11/10/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-337-PCB-02	12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-400				
	30DAA-400-01	12/22/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30 Day PCB storage area established on 12/16/2020
	30DAA-400-01	12/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-411-A				
	30DAA-411A-01	2/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30 Day PCB storage area established on 2/6/2020
	30DAA-411A-01	2/20/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-10

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-411A-01		2/27/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		3/4/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		3/11/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		3/25/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		4/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		4/15/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-11

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-411A-01		4/22/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		4/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		5/6/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		5/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		5/20/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		6/3/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		6/10/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-12

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-411A-01		6/17/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		7/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		7/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		7/15/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		7/22/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		8/5/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-13

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-411A-01		8/12/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		8/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		9/2/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		9/9/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		9/23/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		9/30/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-14

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-411A-01		10/6/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		10/20/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		10/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		10/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		11/4/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		11/11/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-411A-01		12/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-15

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	30DAA-411A-01	12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-411A-01	12/15/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-411A-01	12/22/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	30DAA-411A-01	12/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733				
	C-733	1/9/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	2/7/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	3/4/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-16

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		3/25/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		4/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		4/15/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		4/22/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		4/30/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-17

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65(c)(5) 30 day inspection requirement has been documented and added to inspection records.
C-733		8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		11/11/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-18

C-746-Q

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-746-Q		1/9/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		2/7/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		3/4/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		3/25/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		4/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		4/15/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-19

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-746-Q		4/22/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		4/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65(c)(5) 30 day inspection requirement has been documented and added to inspection records.
C-746-Q		8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-20

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	C-746-Q	11/11/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-746-Q	12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A				
	C-752-A	1/9/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	2/6/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	3/4/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	3/25/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-21

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-752-A		4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		4/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		4/15/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		4/22/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		4/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65(c)(5) 30 day inspection requirement has been documented and added to inspection records.

C-22

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	C-752-A	8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	11/11/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A				
	C-753-A	1/9/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A	2/6/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-23

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-753-A		3/4/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		3/25/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		4/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		4/15/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		4/22/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		4/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-24

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-753-A		5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65(c)(5) 30 day inspection requirement has been documented and added to inspection records.
C-753-A		8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		11/11/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-25

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-757					
	G-757-03	1/2/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	1/30/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	2/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	3/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	4/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	4/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	5/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-26

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-757-03		6/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		7/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65(c)(5) 30 day inspection requirement has been documented and added to inspection records.
G-757-03		8/19/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		9/16/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		11/10/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-27

C-759

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-759-01		10/13/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30 Day PCB storage area established on 10/6/2020
30DAA-759-01		10/20/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		10/26/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		10/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		11/4/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		11/11/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		11/18/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		11/24/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-28

PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
30DAA-759-01		12/1/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		12/8/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		12/15/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		12/22/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30DAA-759-01		12/29/2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-29

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX D

PCB WASTE INVENTORY TABLES

THIS PAGE INTENTIONALLY LEFT BLANK

TABLES

D.1.	Corrections and Adjustments to the December 31, 2019, Inventory	D-5
D.2.	PCB Waste Generated in 2020	D-6
D.3.	Adjustments to the 2020 Inventory	D-12
D.4.	PCB Waste Shipped for Disposal in 2020	D-13
D.5.	PCB Waste Inventory as of December 31, 2020	D-17

THIS PAGE INTENTIONALLY LEFT BLANK

Table D.1. Corrections and Adjustments to the December 31, 2019, Inventory

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
0	121255	121255-03	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING. POST-TSCA RINSE.	4/3/2019	Liquid (L)	0	C-337	RCRA/TSCA Mixed (RTM)	Waste category change from TM to RTM.
0	121918	121918-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	9/17/2019	Solid (S)	2			End Inventory weight was estimated. Generated more waste during 2020 and confirmed weight.
0	121993	121993-01	PCB Container	CONDUIT/METAL WITH PCB CONTAMINATION	12/23/2019	S	52			End Inventory weight was estimated. Container was closed during 2020 and confirmed weight.

TOTAL CORRECTIONS AND ADJUSTMENTS TO THE DECEMBER 31, 2019, INVENTORY:

54

Table D.2. PCB Waste Generated in 2020

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
121993	121993-02	PCB Article Container	LIGHT BALLAST	2/18/2020	64	Solid (S)	C-752-A	C-333	TSCA Mixed (TM)
121998	121998-01	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	1/14/2020	79	S	C-752-A	C-337	TM
121998	121998-02	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	2/24/2020	66	S	C-752-A	C-337	TM
121998	121998-03	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	3/16/2020	57	S	C-752-A	C-337	TM
121998	121998-04	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	9/21/2020	76	S	C-752-A	C-337	TM
121998	121998-05	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	11/5/2020	64	S	C-752-A	C-337	TM
121999	121999-01	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	2/11/2020	218	Liquid (L)	C-752-A	C-337	TM
121999	121999-02	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	7/2/2020	220	L	C-752-A	C-337	TM
121999	121999-03	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	8/11/2020	221	L	C-752-A	C-337	TM
121999	121999-04	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	9/29/2020	227	L	C-752-A	C-337	TM
121999	121999-05	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	10/29/2020	230	L	C-337	C-337	TM
122023	122023-01	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/13/2020	15,132	S	C-411	C-400	RCRA/TSCA Mixed (RTM)
122023	122023-02	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/13/2020	17,409	S	C-411	C-400	RTM
122023	122023-03	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/13/2020	17,282	S	C-411	C-400	RTM
122023	122023-04	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/14/2020	18,888	S	C-411	C-400	RTM

Table D.2. PCB Waste Generated in 2020 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
122023	122023-05	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/14/2020	19,087	S	C-411	C-400	RTM
122023	122023-06	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/14/2020	15,939	S	C-411	C-400	RTM
122023	122023-07	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	14,687	S	C-411	C-400	RTM
122023	122023-08	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	15,567	S	C-411	C-400	RTM
122023	122023-09	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	17,091	S	C-411	C-400	RTM
122023	122023-10	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	17,799	S	C-411	C-400	RTM
122023	122023-11	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	14,515	S	C-411	C-400	RTM
122023	122023-12	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	16,810	S	C-411	C-400	RTM
122023	122023-13	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	17,545	S	C-411	C-400	RTM
122023	122023-14	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	16,919	S	C-411	C-400	RTM
122023	122023-15	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	17,019	S	C-411	C-400	RTM
122023	122023-16	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	14,315	S	C-411	C-400	RTM
122023	122023-17	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/22/2020	13,172	S	C-411	C-400	RTM
122023	122023-18	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/22/2020	14,588	S	C-411	C-400	RTM
122023	122023-19	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/22/2020	15,658	S	C-411	C-400	RTM
122023	122023-20	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/22/2020	15,604	S	C-411	C-400	RTM
122023	122023-21	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	15,300	S	C-411	C-400	RTM
122023	122023-22	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	13,594	S	C-411	C-400	RTM
122023	122023-23	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	18,756	S	C-411	C-400	RTM
122023	122023-24	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	17,277	S	C-411	C-400	RTM
122023	122023-25	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	17,640	S	C-411	C-400	RTM

Table D.2. PCB Waste Generated in 2020 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
122023	122023-26	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/3/2020	18,248	S	C-411	C-400	RTM
122023	122023-27	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/26/2020	15,880	S	C-411	C-400	RTM
122023	122023-28	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/3/2020	14,810	S	C-411	C-400	RTM
122023	122023-29	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/3/2020	13,218	S	C-411	C-400	RTM
122023	122023-30	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/3/2020	12,465	S	C-411	C-400	RTM
122023	122023-31	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/4/2020	16,738	S	C-411	C-400	RTM
122023	122023-32	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/8/2020	17,182	S	C-411	C-400	RTM
122023	122023-33	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/4/2020	13,635	S	C-411	C-400	RTM
122023	122023-34	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/8/2020	17,191	S	C-411	C-400	RTM
122023	122023-35	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/8/2020	15,277	S	C-411	C-400	RTM
122023	122023-36	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/8/2020	13,254	S	C-411	C-400	RTM
122023	122023-37	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/9/2020	12,093	S	C-411	C-400	RTM
122023	122023-38	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/9/2020	13,835	S	C-411	C-400	RTM
122023	122023-39	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/9/2020	15,758	S	C-411	C-400	RTM
122023	122023-40	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/10/2020	19,042	S	C-411	C-400	RTM
122023	122023-41	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/11/2020	15,712	S	C-411	C-400	RTM
122023	122023-42	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/11/2020	17,690	S	C-411	C-400	RTM
122023	122023-43	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/11/2020	14,687	S	C-411	C-400	RTM
122023	122023-44	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	12,565	S	C-411	C-400	RTM
122023	122023-45	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	18,588	S	C-411	C-400	RTM
122023	122023-46	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	18,688	S	C-411	C-400	RTM

Table D.2. PCB Waste Generated in 2020 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
122023	122023-47	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	13,816	S	C-411	C-400	RTM
122023	122023-48	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	16,184	S	C-411	C-400	RTM
122023	122023-49	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	14,497	S	C-411	C-400	RTM
122023	122023-50	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/15/2020	18,162	S	C-411	C-400	RTM
122023	122023-51	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/15/2020	17,545	S	C-411	C-400	RTM
122023	122023-52	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/16/2020	15,649	S	C-411	C-400	RTM
122023	122023-53	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/15/2020	19,096	S	C-411	C-400	RTM
122023	122023-54	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/16/2020	15,921	S	C-411	C-400	RTM
122023	122023-55	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/16/2020	17,735	S	C-411	C-400	RTM
122023	122023-56	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/18/2020	19,495	S	C-411	C-400	RTM
122023	122023-57	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/18/2020	18,643	S	C-411	C-400	RTM
122023	122023-58	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/22/2020	18,643	S	C-411	C-400	RTM
122023	122023-59	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/22/2020	20,992	S	C-411	C-400	RTM
122023	122023-60	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/22/2020	19,659	S	C-411	C-400	RTM
122023	122023-61	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/22/2020	17,064	S	C-411	C-400	RTM
122023	122023-62	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/24/2020	17,454	S	C-411	C-400	RTM
122023	122023-63	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/24/2020	17,935	S	C-411	C-400	RTM
122023	122023-64	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/25/2020	15,331	S	C-400	C-400	RTM
122023	122023-65	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/28/2020	17,001	S	C-400	C-400	RTM

Table D.2. PCB Waste Generated in 2020 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
122023	122023-66	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/25/2020	10,705	S	C-400-RPK	C-400	RTM
122023	122023-67	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/25/2020	20,502	S	C-411	C-400	RTM
122023	122023-68	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	10/16/2020	11,204	S	C-411	C-400	RTM
122023	122023-69	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/4/2020	12,891	S	C-752-A	C-400	RTM
122023	122023-70	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/4/2020	8,954	S	C-752-A	C-400	RTM
122023	122023-71	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/4/2020	5,915	S	C-752-A	C-400	RTM
122043	122043-01 ^a	PCB Container	ENVIRONMENTAL MEDIA/DEBRIS (CONCRETE CORES)	12/16/2020	649	S	C-752-A	C-400	RTM
122106	122106-01 ^a	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	7/15/2020	23	S	C-757	Various	TM
122128	122128-01	PCB Container	POTENTIALLY PCB CONTAMINATED PPE & PLASTIC	8/12/2020	5	S	C-333	C-333	TM
122138	122138-01	PCB Article Container	PCB/HAZARDOUS CONTAMINATED ITEMS: JUNCTION BOXES, POTHEADS, CABLE	8/14/2020	1,332	S	C-752-A	C-400	RTM
122143	122143-01	PCB Container	POSSIBLE PCB CONTAMINATED FILTER MEDIA	8/17/2020	409	S	C-752-A	C-333	TM

Table D.2. PCB Waste Generated in 2020 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Cat
122179	122179-01	PCB Container	EPOXY PAINT CHIPS, VEGETATION & PPE AT BOTH C-340 AND C-410	10/16/2020	953	S	C-752-A	Various	TM
122191	122191-01	PCB Container	THE WASTE WILL CONSIST OF PPE, DURASCRIM PLASTIC, DRIED EMPTY FIXATIVE BUCKETS FROM FINAL CLEAN UP C-400	11/2/2020	6,904	S	REPACKED	C-400	RTM
122193	122193-01	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/6/2020	882	S	C-752-A	C-410	TM
122193	122193-02	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/13/2020	1,389	S	C-752-A	C-410	TM
122193	122193-03	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/20/2020	765	S	C-752-A	C-410	TM
122232	122232-01	PCB Container	MIXED LOW LEVEL WASTE (PCB REMEDIATION WASTE >500 PPM) - ENVIRONMENTAL MEDIA (WATER/SEDIMENTS FROM CONCRETE CORING), WASTE CONSIDERED F-LISTED WASTE CARRYING THE F001, F002, U228 (TCE) WASTE CODES	12/16/2020	189	L	REPACKED	C-400	RTM
122232	122232-02	PCB Container	MIXED LOW LEVEL WASTE (PCB REMEDIATION WASTE >500 PPM) - ENVIRONMENTAL MEDIA (WATER/SEDIMENTS FROM CONCRETE CORING), WASTE CONSIDERED F-LISTED WASTE CARRYING THE F001, F002, U228 (TCE) WASTE CODES	12/16/2020	189	L	REPACKED	C-400	RTM

^bTOTAL PCB WASTE GENERATED IN CY 2020: 1,150,351

^aIndicates a collection container still in use. Weight is estimated.

^bDue to rounding, the weight totals may vary.

Table D.3. Adjustments to the 2020 Inventory

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
-1	122023	122023-66 ^a	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/25/2020	Solid (S)	-10,705	C-400	RCRA/TSCA Mixed (RTM)	Repacked to 122023-67
-1	122191	122191-01 ^b	PCB Container	THE WASTE WILL CONSIST OF PPE, DURASCIM PLASTIC, DRIED EMPTY FIXATIVE BUCKETS FROM FINAL CLEAN UP C-400	11/2/2020	S	-6,904	C-400	RTM	Recharacterized as non-PCB. Sample data indicated non-detects for PCBs.
-1	122232	122232-01	PCB Container	MIXED LOW LEVEL WASTE (PCB REMEDIATION WASTE >500 PPM) - ENVIRONMENTAL MEDIA (WATER/SEDIMENTS FROM CONCRETE CORING), WASTE CONSIDERED F-LISTED WASTE CARRYING THE F001, F002, U228 (TCE) WASTE CODES	12/16/2020	Liquid (L)	-189	C-400	RTM	Recharacterized as non-PCB. Sample data indicated non-detects for PCBs.
-1	122232	122232-02	PCB Container	MIXED LOW LEVEL WASTE (PCB REMEDIATION WASTE >500 PPM) - ENVIRONMENTAL MEDIA (WATER/SEDIMENTS FROM CONCRETE CORING), WASTE CONSIDERED F-LISTED WASTE CARRYING THE F001, F002, U228 (TCE) WASTE CODES	12/16/2020	L	-189	C-400	RTM	Recharacterized as non-PCB. Sample data indicated non-detects for PCBs.

TOTAL ADJUSTMENTS TO CY 2020 INVENTORY:

-17,986

Table D.4. PCB Waste Shipped for Disposal in 2020

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
121255	121255-03	PCB Container	PCB SIGHT GLASS LUBE OIL	4/3/2019	C-752-A	132	Liquid (L)	C-337	RCRA/TSCA Mixed (RTM)	3/16/2020	EnergySolutions , Clive, UT	019694870JJK
121423	121423-07	PCB Container	VENTILATION DUCT OIL AND WATER	5/9/2019	C-752-A	225	L	Proc Bldgs	TSCA Mixed (TM)	3/16/2020	EnergySolutions , Clive, UT	019694871JJK
121423	121423-08	PCB Container	VENTILATION DUCT OIL AND WATER	6/24/2019	C-752-A	227	L	Proc Bldgs	TM	3/16/2020	EnergySolutions , Clive, UT	019694871JJK
121423	121423-09	PCB Container	VENTILATION DUCT OIL AND WATER	8/20/2019	C-752-A	223	L	Proc Bldgs	TM	3/16/2020	EnergySolutions , Clive, UT	019694871JJK
121423	121423-10	PCB Container	VENTILATION DUCT OIL AND WATER	10/30/2019	C-752-A	216	L	C-337	TM	3/16/2020	EnergySolutions , Clive, UT	019694871JJK
121423	121423-11	PCB Container	VENTILATION DUCT OIL AND WATER	12/2/2019	C-752-A	223	L	Proc Bldgs	TM	3/16/2020	EnergySolutions , Clive, UT	019694871JJK
121424	121424-11	PCB Container	RAG, PANS, PLASTIC, PADS, PPE	6/4/2019	C-752-A	93	Solid (S)	C-337	TM	4/14/2020	EnergySolutions , Clive, UT	019694843JJK
121424	121424-12	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	7/24/2019	C-752-A	93	S	Proc Bldgs	TM	6/29/2020	EnergySolutions , Clive, UT	019694866JJK
121424	121424-13	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	7/25/2019	C-752-A	110	S	Proc Bldgs	TM	6/29/2020	EnergySolutions , Clive, UT	019694866JJK
121424	121424-14	PCB Container	SPILL CLEANUP/ENCAPUSLATION DEBRIS	8/1/2019	C-752-A	136	S	Proc Bldgs	TM	6/29/2020	EnergySolutions , Clive, UT	019694866JJK
121424	121424-15	PCB Container	SPILL CLEANUP/ENCAPUSLATION DEBRIS	9/3/2019	C-752-A	125	S	C-337	TM	6/29/2020	EnergySolutions , Clive, UT	019694866JJK
121424	121424-16	PCB Container	SPILL CLEANUP/ENCAPUSLATION DEBRIS	12/2/2019	C-752-A	69	S	C-337	TM	6/29/2020	EnergySolutions , Clive, UT	019694866JJK
121546	121546-04	PCB Article Container	PCB/LEAD CABLE AND POTHEAD	4/3/2019	C-752-A	973	S	C-333	RTM	2/28/2020	Waste Control Specialists , Andrews, TX	019694808JJK
121918	121918-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	9/23/2019	C-757	48	S	Various	TM	7/30/2020	EnergySolutions , Clive, UT	019694891JJK
121950	121950-01	PCB Container	PCB CONTAINMENT DIKE	11/4/2019	C-752-A	458	S	C-337	TM	7/30/2020	EnergySolutions , Clive, UT	019694891JJK
121993	121993-01	PCB Container	CONDUIT/METAL WITH PCB CONTAMINATION	12/23/2019	C-752-A	112	S	C-333	TM	6/29/2020	EnergySolutions , Clive, UT	019694866JJK
121993	121993-02	PCB Article Container	LIGHT BALLAST	2/18/2020	C-752-A	64	S	C-333	TM	10/20/2020	EnergySolutions , Clive, UT	019694971JJK
121998	121998-01	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	1/14/2020	C-752-A	79	S	C-337	TM	7/30/2020	EnergySolutions , Clive, UT	019694891JJK
121998	121998-02	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	2/24/2020	C-752-A	66	S	C-337	TM	10/20/2020	EnergySolutions , Clive, UT	019694971JJK
121999	121999-01	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	2/11/2020	C-752-A	218	L	C-337	TM	10/20/2020	EnergySolutions , Clive, UT	019694972JJK
122023	122023-01	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/13/2020	C-411	15,132	S	C-400	RTM	2/24/2020	EnergySolutions , Clive, UT	019694796JJK

Table D.4. PCB Waste Shipped for Disposal in 2020 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
122023	122023-02	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/13/2020	C-411	17,409	S	C-400	RTM	2/24/2020	EnergySolutions , Clive, UT	019694797JJK
122023	122023-03	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/13/2020	C-411	17,282	S	C-400	RTM	2/24/2020	EnergySolutions , Clive, UT	019694798JJK
122023	122023-04	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/14/2020	C-411	18,888	S	C-400	RTM	2/18/2020	EnergySolutions , Clive, UT	019694786JJK
122023	122023-05	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/14/2020	C-411	19,087	S	C-400	RTM	2/28/2020	EnergySolutions , Clive, UT	019694809JJK
122023	122023-06	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/14/2020	C-411	15,939	S	C-400	RTM	2/28/2020	EnergySolutions , Clive, UT	019694810JJK
122023	122023-07	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	C-411	14,687	S	C-400	RTM	3/5/2020	EnergySolutions , Clive, UT	019694819JJK
122023	122023-08	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	C-411	15,567	S	C-400	RTM	3/5/2020	EnergySolutions , Clive, UT	019694820JJK
122023	122023-09	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	C-411	17,091	S	C-400	RTM	3/5/2020	EnergySolutions , Clive, UT	019694821JJK
122023	122023-10	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	C-411	17,799	S	C-400	RTM	3/12/2020	EnergySolutions , Clive, UT	019694822JJK
122023	122023-11	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/19/2020	C-411	14,515	S	C-400	RTM	3/12/2020	EnergySolutions , Clive, UT	019694823JJK
122023	122023-12	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	C-411	16,810	S	C-400	RTM	3/12/2020	EnergySolutions , Clive, UT	019694824JJK
122023	122023-13	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	C-411	17,545	S	C-400	RTM	3/12/2020	EnergySolutions , Clive, UT	019694825JJK
122023	122023-14	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	C-411	16,919	S	C-400	RTM	3/19/2020	EnergySolutions , Clive, UT	019694838JJK
122023	122023-15	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	C-411	17,019	S	C-400	RTM	3/19/2020	EnergySolutions , Clive, UT	019694839JJK
122023	122023-16	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/21/2020	C-411	14,315	S	C-400	RTM	3/19/2020	EnergySolutions , Clive, UT	019694840JJK
122023	122023-17	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/22/2020	C-411	13,172	S	C-400	RTM	3/19/2020	EnergySolutions , Clive, UT	019694841JJK
122023	122023-18	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/22/2020	C-411	14,588	S	C-400	RTM	3/30/2020	EnergySolutions , Clive, UT	019694850JJK
122023	122023-19	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/22/2020	C-411	15,658	S	C-400	RTM	3/30/2020	EnergySolutions , Clive, UT	019694851JJK
122023	122023-20	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	2/22/2020	C-411	15,604	S	C-400	RTM	3/30/2020	EnergySolutions , Clive, UT	019694852JJK
122023	122023-21	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	C-411	15,300	S	C-400	RTM	9/10/2020	EnergySolutions , Clive, UT	019694899JJK
122023	122023-22	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	C-411	13,594	S	C-400	RTM	9/10/2020	EnergySolutions , Clive, UT	019694900JJK
122023	122023-23	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	C-411	18,756	S	C-400	RTM	9/10/2020	EnergySolutions , Clive, UT	019694901JJK
122023	122023-24	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	C-411	17,277	S	C-400	RTM	9/10/2020	EnergySolutions , Clive, UT	019694902JJK
122023	122023-25	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/21/2020	C-411	17,640	S	C-400	RTM	9/17/2020	EnergySolutions , Clive, UT	019694905JJK

Table D.4. PCB Waste Shipped for Disposal in 2020 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
122023	122023-26	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/3/2020	C-411	18,248	S	C-400	RTM	9/17/2020	EnergySolutions , Clive, UT	019694906JJK
122023	122023-27	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	8/26/2020	C-411	15,880	S	C-400	RTM	9/22/2020	EnergySolutions , Clive, UT	019694846JJK
122023	122023-28	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/3/2020	C-411	14,810	S	C-400	RTM	9/17/2020	EnergySolutions , Clive, UT	019694907JJK
122023	122023-29	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/3/2020	C-411	13,218	S	C-400	RTM	9/17/2020	EnergySolutions , Clive, UT	019694908JJK
122023	122023-30	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/3/2020	C-411	12,465	S	C-400	RTM	9/24/2020	EnergySolutions , Clive, UT	019694848JJK
122023	122023-31	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/4/2020	C-411	16,738	S	C-400	RTM	10/1/2020	EnergySolutions , Clive, UT	019694946JJK
122023	122023-32	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/8/2020	C-411	17,182	S	C-400	RTM	9/24/2020	EnergySolutions , Clive, UT	019694849JJK
122023	122023-33	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/4/2020	C-411	13,635	S	C-400	RTM	10/1/2020	EnergySolutions , Clive, UT	019694947JJK
122023	122023-34	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/8/2020	C-411	17,191	S	C-400	RTM	9/24/2020	EnergySolutions , Clive, UT	019694938JJK
122023	122023-35	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/8/2020	C-411	15,277	S	C-400	RTM	9/22/2020	EnergySolutions , Clive, UT	019694847JJK
122023	122023-36	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/8/2020	C-411	13,254	S	C-400	RTM	9/24/2020	EnergySolutions , Clive, UT	019694939JJK
122023	122023-37	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/9/2020	C-411	12,093	S	C-400	RTM	9/29/2020	EnergySolutions , Clive, UT	019694944JJK
122023	122023-38	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/9/2020	C-411	13,835	S	C-400	RTM	9/29/2020	EnergySolutions , Clive, UT	019694945JJK
122023	122023-39	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/9/2020	C-411	15,758	S	C-400	RTM	10/1/2020	EnergySolutions , Clive, UT	019694948JJK
122023	122023-40	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/10/2020	C-411	19,042	S	C-400	RTM	10/1/2020	EnergySolutions , Clive, UT	019694949JJK
122023	122023-41	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/11/2020	C-411	15,712	S	C-400	RTM	10/6/2020	EnergySolutions , Clive, UT	019694964JJK
122023	122023-42	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/11/2020	C-411	17,690	S	C-400	RTM	10/6/2020	EnergySolutions , Clive, UT	019694965JJK
122023	122023-43	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/11/2020	C-411	14,687	S	C-400	RTM	10/6/2020	EnergySolutions , Clive, UT	019694962JJK
122023	122023-44	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	C-411	12,565	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694978JJK
122023	122023-45	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	C-411	18,588	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694979JJK
122023	122023-46	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	C-411	18,688	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694980JJK
122023	122023-47	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	C-411	13,816	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694981JJK
122023	122023-48	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	C-411	16,184	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694986JJK
122023	122023-49	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/14/2020	C-411	14,497	S	C-400	RTM	10/6/2020	EnergySolutions , Clive, UT	019694963JJK

Table D.4. PCB Waste Shipped for Disposal in 2020 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Cat	Ship Date	Ship Location	Manifest
122023	122023-50	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/15/2020	C-411	18,162	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694977JJK
122023	122023-51	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/15/2020	C-411	17,545	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694974JJK
122023	122023-52	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/16/2020	C-411	15,649	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694975JJK
122023	122023-53	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/15/2020	C-411	19,096	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694976JJK
122023	122023-54	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/16/2020	C-411	15,921	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694982JJK
122023	122023-55	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/16/2020	C-411	17,735	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694983JJK
122023	122023-56	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/18/2020	C-411	19,495	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694984JJK
122023	122023-57	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/18/2020	C-411	18,643	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694985JJK
122023	122023-58	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/22/2020	C-411	18,643	S	C-400	RTM	10/22/2020	EnergySolutions , Clive, UT	019694990JJK
122023	122023-59	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/22/2020	C-411	20,992	S	C-400	RTM	10/22/2020	EnergySolutions , Clive, UT	019694991JJK
122023	122023-60	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/22/2020	C-411	19,659	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694987JJK
122023	122023-61	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/22/2020	C-411	17,064	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694988JJK
122023	122023-62	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/24/2020	C-411	17,454	S	C-400	RTM	10/13/2020	EnergySolutions , Clive, UT	019694989JJK
122023	122023-63	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/24/2020	C-411	17,935	S	C-400	RTM	10/22/2020	EnergySolutions , Clive, UT	019694992JJK
122023	122023-64	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/25/2020	C-400	15,331	S	C-400	RTM	10/22/2020	EnergySolutions , Clive, UT	019694995JJK
122023	122023-65	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/28/2020	C-400	17,001	S	C-400	RTM	10/22/2020	EnergySolutions , Clive, UT	019694993JJK
122023	122023-67	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	9/25/2020	C-411	20,502	S	C-400	RTM	10/22/2020	EnergySolutions , Clive, UT	019694994JJK
122023	122023-68	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	10/16/2020	C-411	11,204	S	C-400	RTM	11/10/2020	EnergySolutions , Clive, UT	019695015JJK
122138	122138-01	PCB Article Container	PCB/HAZARDOUS CONTAMINATED ITEMS: JUNCTION BOXES, POTHEADS, CABLE	8/14/2020	C-752-A	1,332	S	C-400	RTM	10/19/2020	EnergySolutions , Clive, UT	019694968JJK

***TOTAL PCB WASTE SHIPPED FOR DISPOSAL IN CY 2020:**

1,101,897

^aDue to rounding, the weight totals may vary.

Table D.5. PCB Waste Inventory as of December 31, 2020

RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kgs)	Current Facility	Source	Waste Category
106744	106744-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGE AT C-337 U2C3 "B" LOCATION.	11/7/2005	Solid (S)	15,649	C-337	C-337	TSCA MIXED (TM)
107839	107839-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	17,146	C-337	C-337	TM
121998	121998-03	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	3/16/2020	S	57	C-752-A	C-337	TM
121998	121998-04	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	9/21/2020	S	76	C-752-A	C-337	TM
121998	121998-05	PCB Container	SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE FROM VENT DUCT TROUGHS/PCB SPILL SITE ENCAPSULATION ACTIVITIES	11/5/2020	S	64	C-752-A	C-337	TM
121999	121999-02	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	7/2/2020	Liquid (L)	220	C-752-A	C-337	TM
121999	121999-03	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	8/11/2020	L	221	C-752-A	C-337	TM
121999	121999-04	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	9/29/2020	L	227	C-752-A	C-337	TM
121999	121999-05	PCB Container	PCB VENTILATION DUCT LIQUIDS FROM VENTILATION TROUGHS IN PROCESS BUILDINGS	10/29/2020	L	230	C-337	C-337	TM
122023	122023-69	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/4/2020	S	12,891	C-752-A	C-400	RCRA/TSCA Mixed (RTM)
122023	122023-70	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/4/2020	S	8,954	C-752-A	C-400	RTM
122023	122023-71	PCB Container	PCB CONTAMINATED DEBRIS AND CHROMIUM CONTAMINATED BRICK	11/4/2020	S	5,915	C-752-A	C-400	RTM
122043	122043-01 ^a	PCB Container	ENVIRONMENTAL MEDIA/DEBRIS (CONCRETE CORES)	12/16/2020	S	649	C-752-A	C-400	RTM
122106	122106-01 ^a	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	7/15/2020	S	23	C-757	Various	TM
122128	122128-01	PCB Container	POTENTIALLY PCB CONTAMINATED PPE & PLASTIC	8/12/2020	S	5	C-333	C-333	TM
122143	122143-01	PCB Container	POSSIBLE PCB CONTAMINATED FILTER MEDIA	8/17/2020	S	409	C-752-A	C-333	TM
122179	122179-01	PCB Container	EPOXY PAINT CHIPS, VEGETATION & PPE AT BOTH C-340 AND C-410	10/16/2020	S	953	C-752-A	Various	TM
122193	122193-01	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/6/2020	S	882	C-752-A	C-410	TM
122193	122193-02	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/13/2020	S	1,389	C-752-A	C-410	TM
122193	122193-03	PCB Container	EPOXY PAINT CHIPS, VEGETATION AND PPE	11/20/2020	S	765	C-752-A	C-410	TM

^bTOTAL PCB WASTE INVENTORY AS OF DECEMBER 31, 2020: **66,725**

^aIndicates a collection container still in use. Weight is estimated.

^bDue to rounding, the weight totals may vary.

THIS PAGE INTENTIONALLY LEFT BLANK