

**Annual Document of
Polychlorinated Biphenyls at the
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky,
for
January 1, 2017–December 31, 2017**



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Polychlorinated Biphenyls at the
Paducah Gaseous Diffusion Plant,
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for
January 1, 2017–December 31, 2017**

Date Issued—June 2018

U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

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

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ACRONYMS

CD	Certificate of Disposal
<i>CFR</i>	<i>Code of Federal Regulations</i>
CY	calendar year
DSSI	Diversified Scientific Services, LLC
EPA	U.S. Environmental Protection Agency
FFCA	Federal Facilities Compliance Agreement
HQ	headquarters
IWTS	Integrated Waste Tracking System
M&EC	Materials and Energy Corporation
PGDP	Paducah Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act
TSCA	Toxic Substances Control Act
TSDF	treatment, storage, and disposal facility
UE	uranium enrichment
UHWM	Uniform Hazardous Waste Manifest

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EXECUTIVE SUMMARY

This Annual Document of Polychlorinated Biphenyls (PCBs) at the Paducah Gaseous Diffusion Plant (PGDP), Paducah, Kentucky, for January 1, 2017–December 31, 2017, (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 Paducah Gaseous Diffusion Plant 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. During the 2017 calendar year (CY), the Deactivation and Remediation Contractor changed on October 20, 2017, from Fluor Federal Services, Inc., Paducah Deactivation Project to Four Rivers Nuclear Partnership, LLC.

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, 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 the Preface, Section 1, and Sections 5–7. The annual document log includes the name, address, and U.S. Environmental Protection Agency identification number of the facility (Preface), unique manifest number of every PCB waste manifest generated by the facility during the CY (Section 1), PCB electrical equipment remaining in service at the end of the calendar year (Section 5), information on PCB waste shipped off-site and stored at the facility (Section 6), and PCB waste shipment receipt log (Section 7). The Appendices contain the PCB waste manifests, PCB waste certificates of disposal, PCB waste storage area inspection records, and PCB waste inventory tables.

The PCB items in service and PCB activities at the PGDP for CY 2017 are summarized below:

PCB transformers in service as of 12/31/2017:	0
Total PCBs in kg in PCB transformers as of 12/31/2017:	0
PCB large capacitors in service as of 12/31/2017:	0
PCB waste in kg ³ generated in CY 2017:	29,135
PCB waste in kg ⁴ shipped off-site for treatment/disposal in CY 2017:	40,984
PCB waste in kg ⁵ remaining in storage for disposal as of 12/31/2017:	40,645

Throughout CY 2017, PGDP generated 12 manifested shipments of PCB wastes to off-site treatment/disposal facilities. Nine Certificates of Disposal were received in CY 2017 for PCB wastes disposed of in CY 2017.

Due to the nature and history of operations at PGDP, all PCB waste is suspected of being radiologically contaminated, and all PCB waste is considered potentially radiologically contaminated until it is certified otherwise. The U.S. Department of Energy has ongoing programs to characterize the radiological contamination of waste so it can be disposed of appropriately. The *Modification to the February 20, 1992, Compliance Agreement Between the United States Department of Energy and the United States Environmental Protection Agency, Washington, D.C., Toxic Substances Control Act*, approved May 30, 2017, provides for extended storage of radiologically contaminated PCB wastes beyond the one-year storage limitations in 40 *CFR* § 761.65(a). Efforts to secure disposal of radioactive PCB waste items

³ The weights in kg are taken from the Integrated Waste Tracking System (IWTS), Requests for Disposal, or generator supplied information and may be estimated.

⁴ The weights in kg were taken from the Uniform Hazardous Waste Manifests, as shown in Table 1.1, which differs from IWTS weights shown in Table 6.5.

⁵ See note 3.

exceeding the one-year storage limitation are discussed in the *Annual Compliance Agreement Report for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, January 1 through December 31, 2017*, FRNP-RPT-0039, dated June 2018.

1. PCB WASTE MANIFESTS

Uniform Hazardous Waste Manifests (UHWMs) of 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 contains the signed manifests of polychlorinated biphenyl (PCB) wastes shipped off-site for disposal during CY 2017.

Twelve manifests with 134 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;
- Diversified Scientific Services, LLC, (DSSI) Perma-Fix facility in Kingston, TN; and
- Materials and Energy Corporation (M&EC) Waste Treatment Facility, Oak Ridge, TN.

Four of the hazardous waste manifests were generated for 17 containers after testing by the treatment, storage, and disposal facility (TSDF) found regulated levels of PCBs. The shipment originally occurred on October 12, 2017. At that time, 42 330-gal containers of oil drained from equipment were shipped on NRC 540 and 541 forms for disposal at a licensed facility. The oil was characterized as non-toxic per the Toxic Substances Control Act (TSCA) and was regulated using historical data, process knowledge, and confirmatory sampling/analysis.

Upon initial composite testing by the TSDF, PCBs were detected. The Paducah Site was notified November 22, 2017, of the initial test results. Project personnel requested that the TSDF run confirmatory sampling on each individual container. Upon receipt of individual confirmatory sample data, it was determined that 17 of the 42 containers were, in fact, TSCA regulated. At that time, the TSDF requested that the site complete UHWMs for the 17 containers. The containers then were reprofiled and treated appropriately. Paducah was informed that the TSDF's compliance manager made the necessary notifications to the EPA, and no further compliance issues were involved with the shipment.

Table 1.1 summarizes the 2017 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 PCBs 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. When completing manifest documentation, the Deactivation and Remediation Contractor works with various 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. Over the span of one year, these changes combine to create the discrepancy noted in Table 1.1.

Table 1.1. PCB Waste Manifests Summary

UHWM Number	Date Shipped	Shipment Destination	Number of PCB Containers	Manifest Weight of PCB Items (kg)
006841839JJK	1/25/2017	DSSI Perma-Fix, Kingston, TN	22	4,097
006841845JJK	1/25/2017	DSSI Perma-Fix, Kingston, TN	80	15,291
006841867JJK	5/23/2017	EnergySolutions, Clive, UT	1	1,787
006841869JJK	6/01/2017	EnergySolutions, Clive, UT	3	2,642
006841878JJK	6/22/2017	DSSI Perma-Fix, Kingston, TN	8	935
006841884JJK	6/29/2017	EnergySolutions, Clive, UT	1	1
006841890JJK	7/11/2017	DSSI Perma-Fix, Kingston, TN	1	10
006841893JJK	7/11/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	1	0 ¹
006843002JJK ²	10/12/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	8	8,198
006843005JJK ²	10/12/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	3	3,075
006843006JJK ²	10/12/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	3	2,658
006843007JJK ²	10/12/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	3	2,290
Total UHWM: 12			134	40,984

¹ Weight listed as zero due to rounding 0.045 kg.

² Manifests were generated on January 18, 2018, resulting from non-U. S. Department of Transportation-regulated wastes that were shipped on October 12, 2017. Upon testing at the TSDF, the TSDF determined the waste was PCB on November 22, 2017.

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). Nine CDs were received in 2017 from the following facilities:

- Energy*Solutions* disposal facility in Clive, Utah;
- DSSI Perma-Fix facility in Kingston, Tennessee; and
- Perma-Fix facility in Gainesville, Florida.

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

The CDs are presented in Appendix B in order by UHWM number. If the CD received in 2017 was for waste shipped in 2017 (all except UHWM 006841826JJK and 006841810JJK), the manifests are shown in Table 1.1 and Appendix A.

Table 2.1. PCB Waste Certificates of Disposal Summary

UHMW	Earliest Date Removed from Service	Date Shipped	Disposer	Containers Disposed of	Net Weight from UHMW (kg)	Date Disposed of	Date CD Received
006841826JJK	9/14/2016	10/28/2016	EnergySolutions, Clive, UT	2	1,427	3/30/2017	4/3/2017
006841839JJK	1/12/2016	1/25/2017	DSSI Perma-Fix, Kingston, TN	22	4,097	3/27/2017	4/13/2017
006841845JJK	7/7/2015	1/25/2017	DSSI Perma-Fix, Kingston, TN	16	3,064	3/27/2017	4/13/2017
006841810JJK	8/05/2015	6/29/2016	Perma-Fix, Gainesville, FL	2	18	8/16/2016	6/12/2017
006841845JJK	7/29/2015	1/25/2017	DSSI Perma-Fix, Kingston, TN	64	12,227	5/18/2017	7/19/2017
006841869JJK	12/2/2016	6/1/2017	EnergySolutions, Clive, UT	3	2,642	7/24/2017	8/25/2017
006841878JJK	11/16/2016	6/22/2017	DSSI Perma-Fix, Kingston, TN	8	935	11/9/2017	11/27/2017
006841884JJK	2/16/2017	6/29/2017	EnergySolutions, Clive, UT	1	1	8/17/2017	9/28/2017
006841890JJK	12/7/2016	7/11/2017	DSSI Perma-Fix, Kingston, TN	1	10	10/25/2017	11/27/2017
Totals				119	24,421		

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 PGDP during CY 2017. 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.

Table 3.1. PCB Waste Storage Areas at PGDP

Building	Waste Area Designator
C-331	G-331-PCB-01 ^a
C-333	G-333-PCB-01 ^a
C-335	G-335-04 ^a
C-337	G-337-02 ^a
C-337	G-337-03 ^a
C-337	G-337-05 ^a
C-337	G-337-PCB-01 ^{a,b}
C-337	G-337-PCB-02 ^a
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 Waste Area Designators that begin with a “G” indicate a generator staging area, which is a temporary storage area for non-Resource Conservation and Recovery Act, (RCRA), PCB, and/or low-level (radioactive) waste.

^b C-337-PCB-01 was closed on October 24, 2017.

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4. PCB SPILL CLEANUP RECORDS

Records of cleanup and disposal of any spilled or leaked materials from PCB Items in storage in accordance with 40 *CFR* § 761.65(c)(5) are annual records required by 40 *CFR* § 761.180(a)(1)(iii). Because no spills occurred in PCB storage areas during CY 2017, there are no records.

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5. PCB ELECTRICAL EQUIPMENT IN SERVICE

No PCB (≥ 500 ppm) transformers or PCB (≥ 500 ppm) large capacitors were in service at PGDP as of December 31, 2017, which is summarized in Table 5.1. In addition, no PCB transformers or PCB large capacitors were removed from service in CY 2017. Sixty-seven PCB transformers were removed from service, drained, and flushed during 2015. They were stored in place in C-337 during CY 2016 and CY 2017. Residual flushate was removed over time as it drained through and collected in the units.

There are no CY 2017 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, 2017**

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 pending demolition to remove, because they are locked in place by facility structure members placed after the transformers.

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6. PCB WASTE ACTIVITY

PCB waste activities performed by the facility during the CY 2017 are annual records required by 40 *CFR* § 761.180 (a)(2)(iii). The PBC Waste Activity Summary for CY 2017 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 PCB waste was first added to a container and is the origin date of the container.

The PCB Waste Inventory for December 31, 2016, has been adjusted from the “PCB Waste Inventory as of December 31, 2016,” reported as Table 10.9 of the *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2016–December 31, 2016*, FPDP-RPT-0080. The net changes to the January 1, 2017, beginning inventory include adjustments because of in-process collection containers at the time of 2016 inventory, information received after the 2016 report submittal, and/or weight corrections. The detailed listing of the December 31, 2016, corrections and adjustments is provided in Appendix D, Table D.1.

The detailed listing of PCB waste generated during CY 2017 table is provided in Appendix D, Table D.2.

The detailed listing of the adjustments to the CY 2017 PCB inventory is provided in Appendix D, Table D.3.

The detailed listing of the PCB waste shipped in CY 2017 is provided in Appendix D, Table D.4.

The detailed listing of the PCB waste inventory as of December 31, 2017, is provided in Appendix D, Table D.5.

There was no PCB waste received from off-site facilities in CY 2017.

Table 6.1. PCB Waste Activity Summary for CY 2017

PCB Waste Items In Inventory	12/31/2016 Inventory		Corrections and Adjustments to Beginning Inventory ^a		1/1/2017 Inventory		Generated		Adjustments to 2017 Inventory ^b		Shipped for Disposal		12/31/2017 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>
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	3	347	3	7,590	6	7,937	12	5,070	-3	-403	5	8,840	10	3,764
<i>Light Ballasts</i>	2	182	0	56	2	238	9	2,946	-2	-238	0	0	9	2,946
<i>Misc. Equip. (motors, pumps, etc.)</i>	1	165	3	7,534	4	7,699	2	2,119	-1	-165	4	8,835	1	818
<i>Large Capacitors</i>	0	0	0	0	0	0	1	5	0	0	1	5	0	0
CONTAINERS	111	22,497	20	1,155	131	23,652	51	24,065	-14	-751	129	42,879	39	4,087
<i>Liquids^d</i>	102	21,997	3	81	105	22,078	38	23,486	0	0	128	42,865	15	2,699
<i>Solids</i>	9	500	17	1,074	26	1,574	13	579	-14	-751	1	14	24	1,388
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	116	55,639	23	8,745	139	64,384	63	29,135	-17	-1,154	134	51,719	51	40,645

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 2016 inventory, information received after the 2016 report submittal, and/or weight corrections. Weights reported in this summary include the weight of the container (drum/box), except for tanks/tankers.

^bThe Adjustments to 2017 Inventory column includes adjustments due to repackaging of wastes. 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, some of the weight totals may vary by 1 kg.

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 2017 PCB Waste Shipment Receipt Log

Shipment ID	Actual Ship Date	Shipment Destination	UHWM #	Comments / Notes	Date Manifest Received	Comments for Manifest Inquiries and Requests	TSCA	Confirmation email received from Clive
DSSI-17-008	1/25/2017	DSSI Perma-Fix, Kingston, TN	006841845JJK	(80) Drums of Vent Duct Oil/Water-PCB	1/26/2017	Received signed manifest on 1-26-2017, however management codes are pending due to further sampling analysis by the TSDf. Received manifest with management codes on 5-17-/2017	T	Received delivery confirmation via email from Josh Norman on 1/26/2017
DSSI-17-009	1/25/2017	DSSI Perma-Fix, Kingston, TN	006841839JJK	(22) Drums of Vent Duct Oil/Water-PCB	1/26/2017	Received signed manifest on 1-26-2017, however management codes are pending due to further sampling analysis by the TSDf. Received manifest with codes on 6-1-2017	T	Received delivery confirmation via email from Josh Norman on 1/25/2017
9701-26-0001	5/23/2017	EnergySolutions, Clive, UT	006841867JJK	(1) Intermodal of LLW/PCB Remediation	5/25/2017		T	Received delivery confirmation via phone from Tom Wright on 5/26/2017
9701-02-0017	6/1/2017	EnergySolutions, Clive, UT	006841869JJK	(3) ST-90s RCRA/PCB Debris	7/6/2017		RT	Received delivery confirmation via phone from Tom Wright on 6/6/2017
DSSI-17-076	6/22/2017	DSSI Perma-Fix, Kingston, TN	006841878JJK	(8) Drums of PCB Waste and (3) Drums of Non-DOT Regulated Waste	6/26/2017		T	Received delivery confirmation via phone from Josh Norman on 6/24/2017
9701-26-0002	6/29/2017	EnergySolutions, Clive, UT	006841884JJK	(1) drum LLW/PCB Waste	7/7/2017		T	Received delivery confirmation via phone from Tom Wright on 7/5/2017
DSSI-17-082	7/11/2017	DSSI Perma-Fix, Kingston, TN	006841890JJK	(4) Drums of LLW, (1) Drum of TSCA/Mixed Waste	7/12/2017	Received signed manifest on 7-12-2017 however management codes are pending due to additional analysis. Received manifest with management codes on 1-24-2018	RT	Received delivery confirmation via phone from Josh Norman on 7/13/2017
ETTP-17-103	7/11/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	006841893JJK	(8) Drums LLW, (11) Drums of Mixed Waste and (1) Drum of TSCA/Mixed Waste	7/12/2017		RT	Received delivery confirmation via phone from Josh Norman on 7/13/2017
ETTP-17-168 M&EC101217-1	10/12/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	006843002JJK	(4) Totes of NON DOT Regulated Oil and (8) Totes of PCB OIL	2/15/2018	This shipment was not assigned a manifest until 1/10/2018 due to sampling analysis showing (8) totes of oil contained PCBs. See email attached with manifest. Signed manifest should be received by 2-15-2018. Received signed manifest on 2-15-2018	T	Received email from Perma-Fix (Tibby Snipes) with sampling analysis that (8) totes of oil contain PCBs.
ETTP-17-169 M&EC101217-2	10/12/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	006843005JJK	(9) Totes of NON DOT Regulated Oil and (3) Totes of PCB OIL	2/15/2018	This shipment was not assigned a manifest until 1/10/2018 due to sampling analysis showing (3) totes of oil contained PCBs. See email attached with manifest. Signed manifest should be received by 2-15-2018. Received signed manifest on 2-15-2018	T	Received email from Perma-Fix (Tibby Snipes) with sampling analysis that (3) totes of oil contain PCBs.
ETTP-17-170 M&EC101217-3	10/12/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	006843006JJK	(11) Totes of NON DOT Regulated Oil and (3) Totes of PCB OIL	2/15/2018	This shipment was not assigned a manifest until 1/10/2018 due to sampling analysis showing (3) totes of oil contained PCBs. See email attached with manifest. Signed manifest should be received by 2-15-2018. Received signed manifest on 2-15-2018	T	Received email from Perma-Fix (Tibby Snipes) with sampling analysis that (3) totes of oil contain PCBs.
ETTP-17-171 M&EC101217-4	10/12/2017	M&EC Waste Treatment Facility, Oak Ridge, TN	006843007JJK	(9) Totes of NON DOT Regulated Oil and (3) Totes of PCB OIL	2/15/2018	This shipment was not assigned a manifest until 1/10/2018 due to sampling analysis showing (3) totes of oil contained PCBs. See email attached with manifest. Signed manifest should be received by 2-15-2018. Received signed manifest on 2-15-2018	T	Received email from Perma-Fix (Tibby Snipes) with sampling analysis that (3) totes of oil contain PCBs.

T = TSCA
RT = RCRA - TSCA

APPENDIX A
PCB WASTE MANIFESTS

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6211	4. Manifest Tracking Number 006841839 JJK	
5. Generator's Name and Mailing Address U.S. DOE 60 Fluor Federal Services, Inc. (FPDP) 5511 Hobbs Road, Kevil, KY 42053 1-270-441-5000			Generator's Site Address (if different than mailing address) U.S. DOE 60 Fluor Federal Services, Inc. (FPDP) 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 Diversified Scientific Services Inc. DSSI-Permanix 657 Gallaher Road Kingston, TN 37763 1-865-376-0084				U.S. EPA ID Number TND982109142		
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
				No.	Type	12. Unit Wt./Vol.
	X	1. 013082, environmentally hazardous substance, liquid, n.o.s. (PCB), 9, III		22	DM	4097 K
		2.				
		3.				
	4.					
14. Special Handling Instructions and Applicable TID: 2052377 PCB Start Date: 01/12/16						
ERG # 171 In the event of an RQ Release, call 1-800-424-8802				If undeliverable, return to generator		
See PCB Attachment for Additional Info				Shipment ID: DSSI-17-009		
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 US DOE				Signature <i>Lachelle Telfair</i>		Month Day Year 1 25 17
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 J. Toussigwan				Signature <i>J. Toussigwan</i>		Month Day Year 1 25 17
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:						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.		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 Doreen Garrett				Signature <i>Doreen Garrett</i>		Month Day Year 1 26 17



PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 006841839.JJK

Shipment ID Number: DSSI-17-009

Shipment Date: 1/25/2017

UJHM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft ³)	GROSS WT (lb)	Gross Wt (Kg)
9b.1	120306	120306-05	PAD16C30311	VENTILATION DUCT OIL AND WATER	01/12/16	6.5	484	219.54
9b.1	120306	120306-06	PAD16C30312	VENTILATION DUCT OIL AND WATER	01/21/16	6.3	472	214.09
9b.1	120306	120306-07	PAD16C30313	VENTILATION DUCT OIL AND WATER	01/27/16	6.3	472	214.09
9b.1	120306	120306-08	PAD16C30314	VENTILATION DUCT OIL AND WATER	01/27/16	6.5	472	214.09
9b.1	120306	120306-09	PAD16C30332	VENTILATION DUCT OIL AND WATER	03/02/16	6	494	224.07
9b.1	120306	120306-10	PAD16C30333	VENTILATION DUCT OIL AND WATER	03/10/16	6.68	490	222.26
9b.1	120306	120306-11	PAD16C30334	VENTILATION DUCT OIL AND WATER	03/10/16	7.1	478	216.82
9b.1	120306	120306-12	PAD16C30335	VENTILATION DUCT OIL AND WATER	03/11/16	6.68	484	219.54
9b.1	120306	120306-13	PAD16C30651	VENTILATION DUCT OIL AND WATER	03/11/16	6.5	497	225.43
9b.1	120306	120306-14	PAD16C30652	VENTILATION DUCT OIL AND WATER	03/15/16	6.35	474	215.00
9b.1	120306	120306-15	PAD16C30741	VENTILATION DUCT OIL AND WATER	03/17/16	7.4	482	218.63
9b.1	120306	120306-16	PAD16C30742	VENTILATION DUCT OIL AND WATER	03/23/16	6.41	460	208.65
9b.1	120306	120306-17	PAD16C30747	VENTILATION DUCT OIL AND WATER	03/31/16	6.41	458	207.74
9b.1	120306	120306-18	PAD16C30748	VENTILATION DUCT OIL AND WATER	03/31/16	6.54	478	216.82
9b.1	120306	120306-27	PAD16C31231	VENTILATION DUCT OIL AND WATER	05/17/16	7.15	524	237.68
9b.1	120587	120587-07	PAD16C31562	VENTILATION DUCT OIL AND WATER	07/19/16	6.48	492	223.17
9b.1	120587	120587-24	PAD16C31589	VENTILATION DUCT OIL AND WATER	09/08/16	5.2	305	138.34
9b.1	120903	120903-01	PAD16C32101	VENTILATION DUCT OIL AND WATER FROM C-337	11/17/16	6.08	454	205.93
9b.1	120903	120903-02	PAD16C32102	VENTILATION DUCT OIL AND WATER FROM C-337	11/30/16	6.48	483	219.08
9b.1	120903	120903-03	PAD16C32103	VENTILATION DUCT OIL AND WATER FROM C-337	12/06/16	6.22	456	206.84
9b.1	120903	120903-04	PAD16C32104	VENTILATION DUCT OIL AND WATER FROM C-337	12/06/16	5.9	448	203.21
9b.1	120905	120905-01	PAD16C32105	VENTILATION DUCT OIL AND WATER FROM C-335	11/30/16	6.28	442	200.49
		Totals	22			141.46	10299	4672

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 4	3. Emergency Response Phone 1-270-441-6211	4. Manifest Tracking Number 006841845 JJK			
5. Generator's Name and Mailing Address U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) 5511 Hobbs Road, Kevill, KY 42053			Generator's Site Address (if different than mailing address) U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevill, KY 42053					
Generator's Phone: 1-270-441-5000								
6. Transporter 1 Company Name Hittman Transport Services				U.S. EPA ID Number TNR000034686				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name Permafix Services Inc. DSSI-Permatix 657 Gallaher Road Kingston, TN 37763				U.S. EPA ID Number TND982109142				
Facility's Phone: 1-865-376-0084								
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					
X	1. UN3082, Environmentally hazardous substance, liquid, n.o.s (PCB), 9, III	80	DM	15291	K			
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information Truck: 5437 Van: W08979 TID: 2062339 PCB Start Date: 07/07/15 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See PCB Attachment for Additional info Shipment ID: DSSI-17-008								
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 the US DOE				Signature <i>LaChelle Telfair</i>		Month Day Year 11 25 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 Chris Denton				Signature <i>Chris Denton</i>		Month Day Year 1 25 17		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input checked="" 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. _____		
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 Dawn Garrett				Signature <i>Dawn Garrett</i>		Month Day Year 01 26 17		

Manifest Number: 006841845JJK

Shipment ID Number: DSSI-17-008

Shipment Date: 1/25/2017

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)
9b.1	115919	115919-01	PAD15C25747	VENTILATION DUCT OIL AND WATER	10/29/15	7.4	483	219.08
9b.1	115919	115919-02	PAD15C25748	VENTILATION DUCT OIL AND WATER	11/18/15	7.4	441	200.03
9b.1	115919	115919-03	PAD15C25749	VENTILATION DUCT OIL AND WATER	11/18/15	7.4	489	221.81
9b.1	115919	115919-04	PAD15C26043	VENTILATION DUCT OIL AND WATER	11/18/15	6.5	489	221.81
9b.1	115919	115919-05	PAD15C26044	VENTILATION DUCT OIL AND WATER	11/18/15	6.68	463	210.01
9b.1	115919	115919-06	PAD15C26045	VENTILATION DUCT OIL AND WATER	11/18/15	6.3	499	226.34
9b.1	115919	115919-07	PAD15C26046	VENTILATION DUCT OIL AND WATER	11/18/15	7.4	482	218.63
9b.1	115919	115919-08	PAD15C26047	VENTILATION DUCT OIL AND WATER	11/19/15	7.4	506	229.52
9b.1	115919	115919-09	PAD15C26048	VENTILATION DUCT OIL AND WATER	11/30/15	7.4	472	214.09
9b.1	115919	115919-10	PAD15C26049	VENTILATION DUCT OIL AND WATER	11/30/15	7.4	468	212.28
9b.1	115919	115919-11	PAD15C26050	VENTILATION DUCT OIL AND WATER	11/30/15	6.5	461	209.10
9b.1	115919	115919-12	PAD15C26101	VENTILATION DUCT OIL AND WATER	12/01/15	6.4	483	219.08
9b.1	115919	115919-13	PAD15C26351	VENTILATION DUCT OIL AND WATER	12/15/15	6.5	473	214.55
9b.1	115919	115919-14	PAD15C26352	VENTILATION DUCT OIL AND WATER	12/28/15	6.68	499	226.34
9b.1	115919	115919-15	PAD15C26353	VENTILATION DUCT OIL AND WATER	12/28/15	6.9	518	234.96
9b.1	115919	115919-16	PAD15C26120	VENTILATION DUCT OIL AND WATER	12/29/15	6.35	501	227.25
9b.1	115919	115919-17	PAD15C26121	VENTILATION DUCT OIL AND WATER	12/29/15	6.3	515	233.60
9b.1	115919	115919-18	PAD15C26122	VENTILATION DUCT OIL AND WATER	12/29/15	6	497	225.43
9b.1	115919	115919-19	PAD15C26123	VENTILATION DUCT OIL AND WATER	12/29/15	6.68	497	225.43
9b.1	115919	115919-20	PAD15C26124	VENTILATION DUCT OIL AND WATER	12/29/15	6.3	467	211.83
9b.1	115919	115919-21	PAD15C26129	VENTILATION DUCT OIL AND WATER	12/30/15	7.4	488	221.35
9b.1	115919	115919-22	PAD15C26130	VENTILATION DUCT OIL AND WATER	12/30/15	6.3	470	213.19
9b.1	115919	115919-23	PAD15C26131	VENTILATION DUCT OIL AND WATER	12/30/15	6.08	506	229.52
9b.1	119802	119802-04	PAD15C21799	VENTILATION DUCT OIL AND WATER	07/07/15	6.6	492	223.17
9b.1	119802	119802-05	PAD15C21798	VENTILATION DUCT OIL AND WATER	07/07/15	5.7	468	212.28

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Manifest Number: 006841845JJK

Shipment ID Number: DSSI-17-008

Shipment Date: 1/25/2017

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (R3)	GROSS WT (lb)	Gross Wt. (Kg)
9b.1	119802	119802-06	PAD15C21802	VENTILATION DUCT OIL AND WATER	7/9/2015	6	473	215
9b.1	119802	119802-07	PAD15C21803	VENTILATION DUCT OIL AND WATER	7/13/2015	6.15	458	208
9b.1	119802	119802-08	PAD15C21819	VENTILATION DUCT OIL AND WATER	7/29/2015	6.35	473	215
9b.1	119802	119802-09	PAD15C21820	VENTILATION DUCT OIL AND WATER	7/29/2015	6.42	480	218
9b.1	119802	119802-10	PAD15C21822	VENTILATION DUCT OIL AND WATER	7/30/2015	6.15	462	210
9b.1	119802	119802-11	PAD15C21823	VENTILATION DUCT OIL AND WATER	9/10/2015	6.3	482	219
9b.1	119802	119802-12	PAD15C21824	VENTILATION DUCT OIL AND WATER	10/29/2015	7.29	487	221
9b.1	120306	120306-01	PAD16C30302	VENTILATION DUCT OIL AND WATER	1/6/2016	6.35	463	210
9b.1	120306	120306-02	PAD16C30303	VENTILATION DUCT OIL AND WATER	1/6/2016	6.5	483	219
9b.1	120306	120306-03	PAD16C30304	VENTILATION DUCT OIL AND WATER	1/12/2016	6.68	501	227
9b.1	120306	120306-04	PAD16C30305	VENTILATION DUCT OIL AND WATER	1/12/2016	6.4	480	218
9b.1	120306	120306-19	PAD16C30749	VENTILATION DUCT OIL AND WATER	3/31/2016	6.9	422	191
9b.1	120306	120306-20	PAD16C30664	VENTILATION DUCT OIL AND WATER	4/13/2016	6.5	471	214
9b.1	120306	120306-21	PAD16C30665	VENTILATION DUCT OIL AND WATER	5/4/2016	6.1	461	209
9b.1	120306	120306-22	PAD16C30666	VENTILATION DUCT OIL AND WATER	5/4/2016	6.15	476	216
9b.1	120306	120306-23	PAD16C31405	VENTILATION DUCT OIL AND WATER	5/11/2016	6.22	457	207
9b.1	120306	120306-24	PAD16C31406	VENTILATION DUCT OIL AND WATER	5/12/2016	6.7	497	225
9b.1	120306	120306-25	PAD16C31407	VENTILATION DUCT OIL AND WATER	5/17/2016	6	460	209
9b.1	120306	120306-26	PAD16C31408	VENTILATION DUCT OIL AND WATER	5/17/2016	6.68	508	230
9b.1	120306	120306-28	PAD16C31232	VENTILATION DUCT OIL AND WATER	6/1/2016	6.48	484	220
9b.1	120306	120306-29	PAD16C31233	VENTILATION DUCT OIL AND WATER	7/5/2016	6.15	502	228
9b.1	120306	120306-30	PAD16C31234	VENTILATION DUCT OIL AND WATER	7/5/2016	6.68	469	213
9b.1	120306	120306-31	PAD16C31551	VENTILATION DUCT OIL AND WATER	07/05/16	6.35	475	215.46
9b.1	120306	120306-32	PAD16C31552	VENTILATION DUCT OIL AND WATER	07/05/16	6.35	460	208.65
9b.1	120306	120306-33	PAD16C31553	VENTILATION DUCT OIL AND WATER	07/05/16	6.35	482	218.63
9b.1	120306	120306-34	PAD16C31554	VENTILATION DUCT OIL AND WATER	07/06/16	7.4	503	228.16
9b.1	120306	120306-35	PAD16C31555	VENTILATION DUCT OIL AND WATER	07/07/16	6.35	485	219.99
9b.1	120587	120587-01	PAD16C31556	VENTILATION DUCT OIL AND WATER	07/07/16	6.02	464	210.47
9b.1	120587	120587-02	PAD16C31557	VENTILATION DUCT OIL AND WATER	07/07/16	6.02	470	213.19
9b.1	120587	120587-03	PAD16C31558	VENTILATION DUCT OIL AND WATER	07/07/16	6.35	517	234.51

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PCB and Additional Information Attachment, Page 4 of 4

Manifest Number: 006841845JJK

Shipment ID Number: DSSI-17-008

Shipment Date: 01/25/17

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)
9b.1	120587	120587-04	PAD16C31559	VENTILATION DUCT OIL AND WATER	07/11/16	6.68	450	204.12
9b.1	120587	120587-05	PAD16C31560	VENTILATION DUCT OIL AND WATER	07/11/16	6.35	501	227.25
9b.1	120587	120587-06	PAD16C31561	VENTILATION DUCT OIL AND WATER	07/13/16	6.68	504	228.61
9b.1	120587	120587-08	PAD16C31563	VENTILATION DUCT OIL AND WATER	07/28/16	6.62	503	228.16
9b.1	120587	120587-09	PAD16C31565	VENTILATION DUCT OIL AND WATER	08/02/16	6.62	510	231.33
9b.1	120587	120587-10	PAD16C31566	VENTILATION DUCT OIL AND WATER	08/09/16	6.35	499	226.34
9b.1	120587	120587-11	PAD16C31567	VENTILATION DUCT OIL AND WATER	08/09/16	6.02	473	214.55
9b.1	120587	120587-12	PAD16C31568	VENTILATION DUCT OIL AND WATER	08/09/16	6.35	492	223.17
9b.1	120587	120587-13	PAD16C31569	VENTILATION DUCT OIL AND WATER	08/09/16	5.68	470	213.19
9b.1	120587	120587-14	PAD16C31570	VENTILATION DUCT OIL AND WATER	08/09/16	6.15	471	213.64
9b.1	120587	120587-15	PAD16C31571	VENTILATION DUCT OIL AND WATER	08/16/16	6.35	517	234.51
9b.1	120587	120587-16	PAD16C31572	VENTILATION DUCT OIL AND WATER	08/17/16	7.02	504	228.61
9b.1	120587	120587-17	PAD16C31701	VENTILATION DUCT OIL AND WATER	08/17/16	6.68	505	229.06
9b.1	120587	120587-18	PAD16C31702	VENTILATION DUCT OIL AND WATER	08/17/16	6.3	492	223.17
9b.1	120587	120587-19	PAD16C31703	VENTILATION DUCT OIL AND WATER	08/17/16	6.5	496	224.98
9b.1	120587	120587-20	PAD16C31704	VENTILATION DUCT OIL AND WATER	08/17/16	6.68	516	234.05
9b.1	120587	120587-21	PAD16C31586	VENTILATION DUCT OIL AND WATER	08/17/16	6.35	483	219.08
9b.1	120587	120587-22	PAD16C31587	VENTILATION DUCT OIL AND WATER	08/18/16	6.42	454	205.93
9b.1	120587	120587-23	PAD16C31588	VENTILATION DUCT OIL AND WATER	08/24/16	5.37	482	218.63
9b.1	120903	120903-05	PAD16C32251	VENTILATION DUCT OIL AND WATER FROM C-337	12/19/16	6.35	438	198.67
9b.1	120903	120903-06	PAD16C32252	VENTILATION DUCT OIL AND WATER FROM C-337	12/19/16	6.68	436	197.77
9b.1	120903	120903-07	PAD16C32253	VENTILATION DUCT OIL AND WATER FROM C-337	12/19/16	7.15	486	220.44
9b.1	120903	120903-08	PAD16C32254	VENTILATION DUCT OIL AND WATER FROM C-337	12/28/16	6.55	474	215.00
9b.1	120905	120905-02	PAD16C32106	VENTILATION DUCT OIL AND WATER FROM C-335	12/20/16	4.4	322	146.06
9b.1	120907	120907-01	PAD16C32109	VENTILATION DUCT OIL AND WATER FROM C-333	11/30/16	3.9	286	129.73
Totals			80			516.51	38196	17325

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* Shipment accepted 5/22/17. Received this form 5/23/17 *

T

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 9890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6211	4. Manifest Tracking Number 006841867 JJK		
5. Generator's Name and Mailing Address U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) 5511 Hobbs Road, Keokuk, KY 42053 Generator's Phone: 1-270-441-5000			Generator's Site Address (if different than mailing address) U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) Production Gaseous Diffusion Plant, 5511 Hobbs Rd, Keokuk, KY 42053				
6. Transporter 1 Company Name Cust Transportation			U.S. EPA ID Number COR 000005389				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address Energy Solutions Clinic Disposal Site - Treatment Facility US 1-80 Exit 49, Clive, UT 84029 Facility's Phone: 1-435-894-0155			U.S. EPA ID Number UTD98259898				
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	UN932, Radioactive material, low specific activity (LSA-II), (PCBs), UG-237, TR-99, YU-230, UG-234, Solid/oxide, 100SD Mfg. Facility Encapsulated	1	CM	17P7	K	
	2						
	3						
14. Special Handling Instructions and Additional Information Truck: 1413 Trailer: DTR4 ERG # 1102 In the event of an ER Release, call 1-800-424-9802 Exclusive Use Shipment. See PCB Attachment for Additional Info PRO8752 PCB Start Date: 3-27-17 If undeliverable, return to generator Shipment ID: 9701-26-0001 7-17-17							
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, secured, 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/Supplier's Printed/Typed Name Matthew Hill on behalf of the USDOE			Signature 		Month Day Year 5 23 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 _____ Signature _____ Month Day Year _____ Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____							
18. Discrepancy 18a. Discrepancy Indication Specs <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. 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: Thomas W. White Signature: Month Day Year: 05 23 17							

RECEIVED
MAY 25 2017
BY: AM

PCB and Additional Information Attachment, Page 2 of 3

Manifest Number: 006841667JJK

Shipment ID Number: 9701-28-0001

Shipment Date: 5/18/2017

UWWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (L)	GROSS WT (lb)	Gross WT (Kg)	Maximum Activity (mBq)
9b.1	120614	120614-01	PAD17C35027	PCB Aftides, Wood, Pumps, Drum VACs	03/27/15	686	11440	5189.07	10850

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RECEIVED
MAY 25 2017
BY: MM

GENERATOR	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6211	4. Manifest Tracking Number 006841869 JJK				
	5. Generator's Name and Mailing Address U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 1-270-441-5000			Generator's Site Address (if different than mailing address) U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053					
6. Transporter 1 Company Name CAST Transportation				U.S. EPA ID Number COR000005389					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address EnergySolutions Clive Disposal Site-Treatment Facility US I-80 Exit 49, Clive, UT 84029 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	
		UN 2913, Waste, Radioactive material, surface contaminated objects (SCO-II), 7, (PCB, F001), Np-237, Tc-99, Th-230, U-234, Solid/Oxide, 2259 MBq, Fissile Excepted		No. Type		2642	K	F001 F002	
RQ				3 CM					
2.									
3.									
4.									
									
14. Special Handling Instructions and Additional Information Truck: 1410 Trailer: OTR 84 Accumulation Start Date: 12/02/16 PCB Start Date: 12/02/16 ERG # 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator Exclusive Use Shipment. See PCB Attachment for Additional info PM01905 Shipment ID: 9701-02-0017									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name Regina Pea on behalf of DOE				Signature <i>Regina Pea</i>		Month 06	Day 01	Year 17	
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 Alton J. Allen				Signature <i>Alton J. Allen</i>		Month 6	Day 1	Year 17	
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 J. Gardner				Signature <i>J. Gardner</i>		Month 6	Day 5	Year 17	

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 006841869JJK

Shipment ID Number: 9701-02-0017

Shipment Date: 6/1/2017

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	Accumulation Storage Date	WASTE NET VOLUME (#3)	Net WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	120647	120647-01	PAD16C32006	MILLERS FLUORINATED LUBRICANT SYSTEM SCRAP METAL	12/02/16	12/02/16	86	2093	949	796
9b.1	120647	120647-02	PAD16C32007	MILLERS FLUORINATED LUBRICANT SYSTEM SCRAP METAL	12/06/16	12/06/16	83	1659	753	768
9b.1	120647	120647-03	PAD17C35220	F-LISTED FLOOR PANS	02/13/17	02/13/17	75	2072	940	694
Totals			3				244	5824	2642	2259

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LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: US Department of Energy (Paducah Site) Manifest Doc. No.: 006841869 JJK
 Profile No.: 9701-02 - 0017 State Manifest No.: NA

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

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001	Trichloroethene	<input type="checkbox"/>	D
2	F002	Trichloroethene	<input type="checkbox"/>	D
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: *James Best* Title: WGS Manager Date: 5/31/17

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

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

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

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

SUBCATEGORY REFERENCE

D001:

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

D002:

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

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: US Department of Energy (Paducah Site) Manifest Doc. No.: 006841869JJK

Profile No.: 9701-02-0017 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.

Table with 5 columns: REF #, 3: US EPA HAZARDOUS WASTE CODE(S), 4: SUBCATEGORY (DESCRIPTION), NONE, 5: HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1. Rows 5-35 are mostly empty with a large handwritten scribble across the middle.

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: WGS Manager Date: 5-31-17

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: US Department of Energy (Paducah Site) Manifest Doc. No. : 006841869JJK

Profile No.: 9701-02-0017 State Manifest No.: NA

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

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

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

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 *Tommi Bet*
 Title WGS manager

Date 5-31-17

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

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 1-270-441-6211	4. Manifest Tracking Number 006841878 JJK			
5. Generator Name and Mailing Address U.S. Postal and Postal Federal Services, Inc. (FPDP) 5511 Hobbs Road, Kevil, KY 42053 1-270-441-5000		Generator's Site Address (if different than mailing address) U.S. Postal and Postal Federal Services, Inc. (FPDP) Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053						
6. Transporter 1 Company Name CAST Transportation		U.S. EPA ID Number COR000005388						
7. Transporter 2 Company Name		U.S. EPA ID Number						
8. Designated Facility Name and Site Address Diversified Scientific Services Inc. (DSSI) 857 Gallaher Rd., Kingston, TN 37703 1-435-884-0155		U.S. EPA ID Number TND982108142						
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. Non DOT Regulated		UN3082, Environmentally hazardous substances liquid, n.o.s. (PCB), 8, PG III		3 DM 285		K		
2.								
3.								
4.								
<p>14. Special Handling Instructions and Additional Information: RG TRUCK #4088 Trailer: 510 ID: 2062390 2062319 Accumulation Start Date: 01/04/17 PCB Start Date: 01/04/17 - 11/10/16 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See PCB Attachment for Additional Info Shipment ID: DSSI-17-078</p>								
<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's/Offeror's Printed/Typed Name <i>Regina Pea on behalf of DSS</i>				Signature <i>Regina Pea</i>		Month Day Year <i>6 22 17</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>Justin M Bone</i>				Signature <i>Justin M Bone</i>		Month Day Year <i>6 22 17</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: _____</p>								
18b. Alternate Facility (or Generator)						U.S. EPA ID Number		
<p>18c. Signature of Alternate Facility (or Generator)</p> <p>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. _____ 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 <i>Dawn Garrett</i>				Signature <i>Dawn Garrett</i>		Month Day Year <i>10 23 17</i>		

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 006841878JJK

Shipment ID Number: DSSI-17-076

Shipment Date: 6/22/2017

UHM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)
9b.1	1159C4	115904-01	PAD17C36215	UNUSED SOYGOLD (MATERIAL WENT BAD AND CAN NO LONGER BE USED)		4.0	466	211
9b.1	1159C4	115904-02	PAD17C36216	UNUSED SOYGOLD (MATERIAL WENT BAD AND CAN NO LONGER BE USED)		4.0	334	151
9b.1	120677	120677-01	PAD17C35028	PCB Oil From vacuums		1.1	85	39
9b.2	1209C3	120903-09	PAD17C35401	VENTILATION DUCT OIL AND WATER FROM C-337	01/04/17	6.4	458	208
9b.2	1209C3	120903-10	PAD17C35402	VENTILATION DUCT OIL AND WATER FROM C-337	01/25/17	7.0	476	216
9b.2	1209C3	120903-11	PAD17C35414	VENTILATION DUCT OIL AND WATER FROM C-337	03/08/17	7.4	429	195
9b.2	1209C3	120903-12	PAD17C35488	VENTILATION DUCT OIL AND WATER FROM C-337	04/17/17	5.0	354	161
9b.2	1209C5	120905-03	PAD17C35403	VENTILATION DUCT OIL AND WATER FROM C-335	01/18/17	4.6	344	156
9b.2	1209C7	120907-02	PAD17C35501	VENTILATION DUCT OIL AND WATER FROM C-333	01/18/17	5.8	260	118
9b.2	1209C9	120909-01	PAD16C32110	VENTILATION DUCT OIL AND WATER FROM C-331	11/30/16	1.4	128	58
9b.2	1209Z0	120920-01	PAD16C31913	VENTILATION DUCT OIL	11/16/16	0.3	16	7
Totals			11			46.9	3350	1520

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 880000882	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-6211	4. Manifest Tracking Number 006841884 JJK
5. Generator's Name and Mailing Address U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 1-270-441-5000		Generator's Site Address (if different than mailing address) U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053			
6. Transporter 1 Company Name CAST Transportation		U.S. EPA ID Number COR000005389		U.S. EPA ID Number 60R00000000 6/23/17	
7. Transporter 2 Company Name		U.S. EPA ID Number		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 Facility's Phone: 1-435-884-0155		U.S. EPA ID Number UTD002508088			
GENERATOR	9a. HM	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (# any))	UN 3321, Radioactive material, low specific activity (LSA-II), 7, (PCB), Am-241, Np-237, Pu-239, Th-230, Solid Oxide, 4 MBq, 1 7/8 7/8/17 DM		1	K
	10. Waste Codes				
	11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (# any))	RECEIVED JUL 07 2017 BY: [Signature]			
	12. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (# any))				
14. Special Handling Information ERG # 162 In the event of an RQ Release, call 1-800-424-8802 Exclusive Use Shipment, See PCB Attachment for Additional Info		Accumulation Start Date: N/A		PCB Start Date: 02/16/17	
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) I am a large quantity generator) or (b) (i) I am a small quantity generator) is true.		If undeliverable, return to generator Shipment ID: 9701-26-0002		PR-8766	
Generator's/Officer's Printed/Typed Name L. Chellie Tedford on behalf of the US DOE		Signature [Signature]		Month 16	Day 29
16. International Shipments Transporter signature (for exports only):		Port of entry/exit: Date leaving U.S.:		Year 17	
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name LOUIS PALOMBA		Signature [Signature]		Month 6
	Transporter 2 Printed/Typed Name		Signature [Signature]		Day 29
18. Discrepancy 18a. Discrepancy Indication Space		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			
DESIGNATED FACILITY	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 [Signature]	
				Month 10	Day 03

Additional Information Attachment, Page 2 of 2

Shipment ID Number: 9701-26-0002

Shipment Date: 6/29/2017

BOL Item Entry	Container / WASTE ID	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	Activity MBq	TIDs
1st entry	120672-01	0.5	12	5	4	922883, SK5122956
		0.5	12	5	4	

A-20

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 9890008982	2. Page 1 of	3. Emergency Response Phone 1-270-411-6211	4. Manifest Tracking Number 006841890 JJK			
5. Generator's Name and Mailing Address U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) 5511 Hobbs Road, Kevil, KY 42053			Generator's Site Address (if different than mailing address) U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) Nuclear Gaseous Diffusion Plant, 5511 Hobbs Rd, Kevil, KY 42053					
6. Transporter 1 Company Name CAST Transportation			U.S. EPA ID Number COR00005389					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address Diversified Scientific Services, Inc. (DSSI) 457 Gallahar Rd, Kingston, TN 37703			U.S. EPA ID Number TND982109142					
Facility's Phone (865) 376-0084								
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				
	X	1. UN3321, Radioactive material, low specific activity (LSA-II), 7, 141-241, Pu-239, Th-230, U-234, Solid/oxide, 871110, fissile Excepted	4	DM	45	K		
	RQ	2. UN3321, Waste, Radioactive material, low specific activity (LSA-II), 7, (2002) (F001, PCB), U-234, U-235, U-238, Liquid/oxide, 319 NFP, Fissile Excepted	1	DM	10	k	F001	F002
		3.						
	4.							
14. Special Handling Instructions, and Additional Information Truck: 1436 Trailer: 520 TID: 2062310 Accumulation Start Date: 12/7/16 PCB Start Date: 12/7/16 EBG #162 In the event of an RQ Release, call 1-800-424-8802. If undeliverable, return to generator. Exclusive Use Slipmat, See Attachment for Additional Info Ship at 10% DSSI-17-082								
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 Poan on behalf of DOE			Signature <i>(Regina) Poan</i>		Month Day Year 10 11 17			
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 Jerry B. Young			Signature <i>(Jerry B.) Young</i>		Month Day Year 7 11 17		
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) BY: (Signature)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Dawn Garrett			Signature <i>(Dawn) Garrett</i>		Month Day Year 10 12 17			

Additional Information Attachment, Page 2 of 2

Manifest Number: 006841890JJK

Shipment ID Number: DSSI-17-082

Shipment Date: 7/11/2017

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	Date to Storage	NET VOLUME (ft3)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	120619	120619-01	PAD16C31546	Uranium recovery #4 dissolver rotary vacuum wheel holdup		1.25	40	18	336
9b.1	120619	120619-02	PAD16C31602	Gold dissolver holdup, rags		2.4	38	17	319
9b.1	120619	120619-03	PAD16C31614	Gold dissolver holdup, rags		1	18	8	151
9b.1	120665	120665-01	PAD17C35554	SAMPLE RETURNS		0.67	4	2	34
9b.2	120648	120648-01	PAD16C32008	Water from Lines in Zone 2 (MFL) Area	12/07/16	0.4	22	10	319
		Totals	5			5.72	122	55	1159

A-22

Generator Name: US Department of Energy (Redwood Site)

Profile No.: Perma-Fix TBD

State Manifest No.: N/A

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

REF #	3. US-EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE.		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F001	Trichloroethene	<input type="checkbox"/>	D
2	F002	Trichloroethene	<input type="checkbox"/>	D
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

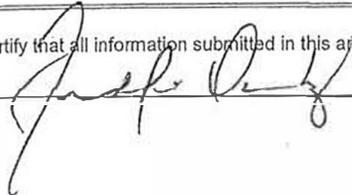
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information 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



Title

WASTE ENGINEER

Date

07/06/2012

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

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

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

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

SUBCATEGORY REFERENCE

D001:

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

D002:

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

Form A1
Page 2 of 2

120648-01

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: US Department of Energy (Paducah Site) Manifest Doc. No. : 006841890JTK

Profile No.: PCMA-Fix 730 State Manifest No.: NA

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

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

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

Handwritten signature and date: 07/06/2017

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

Signature: *John D. V...*
Title: WASTE ENGINEER

Date: 07/06/2017

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: US Department of Energy (Paducah Site) Manifest Doc. No.: 006841890JJK

Profile No.: Penn-Flux TBD State Manifest No.: N/A

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

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1, PAGE 1
		ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE	NONE	
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: [Handwritten Signature]
Title: WASTE ENGINEER

Date: 07/06/2017

RT

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY8890008982	2. Page 1 of 3	3. Emergency Response Phone 1-270-441-6211	4. Manifest Tracking Number 006841893 JJK				
5. Generator's Name and Mailing Address U.S. DOE c/o Fluor Federal Services, Inc. (FPOP) 5511 Hobbs Road, Kenil, KY 42053				Generator's Site Address (if different than mailing address) U.S. DOE c/o Fluor Federal Services, Inc. (FPOP) Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd, Kenil, KY 42053					
Generator's Phone: 1-270-441-5000				U.S. EPA ID Number COR000005389					
6. Transporter 1 Company Name CAST Transportation				U.S. EPA ID Number TNR000005397					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address M&EC Waste Treatment Facility 2010 Hwy 58, Suite 1020, Oak Ridge, TN 38998				U.S. EPA ID Number TNR000005397					
Facility's Phone: 1-865-574-0335									
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	
	X	1. UN3321, Radioactive material, low specific activity (LSA-II), 7, Am-241, Pu-239, Th-230, Solid/oxide, 1887 MBq, Fissile Excepted		4	DM	69 K	K		
	RQ	2. UN3321, Waste, Radioactive material, low specific activity (LSA-II), 7, (PCB), Am-241, Np-237, Pu-239, Th-230, Solid/oxide, 1046 MBq, Fissile Excepted		1	DM	0 K	K	D007	
	RQ	3. UN3321, Waste, Radioactive material, low specific activity (LSA-II), 7, (D006, D007), Am-241, Np-237, Pu-239, Th-230, Solid/oxide, 1046 MBq, Fissile Excepted		3	DM	162 K	K	D006	D007
	RQ	4. UN3321, Waste, Radioactive material, low specific activity (LSA-II), 7, (D007, D008), Am-241, Np-237, Pu-239, Th-230, Solid/oxide, 4199 MBq, Fissile Excepted		8	DM	404 K	K	D007	D008
14. Special Handling Instructions and Additional Information Truck: 1436 Trailer: 520 TID: 2062310 Accumulation Start Date: 5-22-17 PCB Start Date: 5/8/17 ER# 162 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to sender Exclusive Use Shipment, See Attachment for Additional Info Shipment ID: 17-12-17-17-103									
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 DOE				Signature Regina Pea		Month Day Year 07 11 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 Jerry D. Young									
Signature [Signature]									
Month Day Year 7 11 17									
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) BY: [Signature]									
Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H129 (Repack)		2. H110		3. H110		4. H110			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18c									
Printed/Typed Name Carrie Clark				Signature [Signature]		Month Day Year 07 12 17			

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number KY8890008982	22. Page 2	23. Manifest Tracking Number 006841893 JJK		
24. Generator's Name U.S. DOE of Fluor Fuels Services, Inc (FPDP) 5711 Hobbs Road, Keokuk, KY 42053						
25. Transporter Company Name CAST Transportation				U.S. EPA ID Number COR000005389		
26. Transporter Company Name				U.S. EPA ID Number		
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
		No.	Type			
X	UN3321, Radioactive material, low specific activity (LSA-II), 7, U-234, U-235, U-238, Solid/oxide, 276 MBq, Fissile Excepted	1	DM	15	K	
X	UN3321, Radioactive material, low specific activity (LSA-II), 7, Pu-239, Tc-99, Th-230, Solid/oxide, 2422 MBq, Fissile Excepted	3	DM	144	K	
						
32. Special Handling Instructions and Additional Information ERG #162. In the event of an RR Release, call 1-800-424-8802. Exclusive USE SHIPMENT, see attached attachment for Additional Info						Accumulation Start Date: 5-22-17 If undeliverable, return to generator shipment ID:
TRANSPORTER	33. Transporter Acknowledgment of Receipt of Materials		Signature		Month Day Year	
	Printed/Typed Name Regina Pea on behalf of DOE		Regina Pea		07 11 17	
DESIGNATED FACILITY	34. Transporter Acknowledgment of Receipt of Materials		Signature		Month Day Year	
	Printed/Typed Name Jerry D. Young		Jerry D. Young		07 11 17	
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
H129 (Repack) H129 (Repack)						

PCB and Additional Information Attachment, Page 3 of 3

Manifest Number: 006841893JJK

Shipment ID Number: ETPP-17-103

Shipment Date: 7/11/2017

UHMW Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	Accumulation Date to Storage	NET VOLUME (ft3)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq	
9b.1	120620	120620-01	PAD16C31601	#1 alumina dissolver holdup residue, rags			4	60	27	740	
9b.2	120624	120624-01	PAD16C31608	Holdup, residue, rags from nickel stripper evaporation unit	05/08/17	05/22/17	0.25	0.1	0	0.46	
9b.1	120627	120627-01	PAD16C31618	Holdup from miscellaneous pumps			0.2	5.1	2	63	
9b.1	120630	120630-01	PAD16C31620	Pipe cleanout holdup, associated material (rags, PPE)			1	42	19	518	
9b.1	120630	120630-02	PAD16C31615	Pipe cleanout holdup, associated material (rags, PPE)			1.5	46	21	567	
9b.3	120644	120644-01	PAD16C32065	Grease Rags/Wipes from Machines		06/27/17	2.5	38	17	175	
9b.5	120667	120667-01	PAD17C35556	Sample returns (U depleted)			1.5	33	15	276	
9b.6	120674	120674-02	PAD17C35618	DECON MATERIAL AND PIPE C-400 ZONE 4 "B TANK"			6	182	83	1386	
9b.6	120674	120674-11	PAD17C35198	DECON MATERIAL FROM C-400, ZONE 4 PRECOAT TANK			6	68	31	518	
9b.6	120674	120674-12	PAD17C35194	DECON MATERIAL ZONE 4, C-400 PRE COAT TANK			6	68	31	518	
9b.3	120685	120685-01	PAD17C35674	Witch oil tank decon material		06/27/17	5	226	103	1042	
9b.3	120685	120685-02	PAD17C35675	Witch oil tank decon material		06/27/17	5	93	42	429	
9b.4	120689	120689-01	PAD17C35792	DECON MATERIAL AND PIPE C-400 ZONE 4 "B TANK"		06/26/17	6	198	90	1042	
9b.4	120689	120689-02	PAD17C35793	DECON MATERIAL AND PIPE C-400 ZONE 4 "B TANK"		06/26/17	6	234	106	429	
9b.4	120689	120689-03	PAD17C35794	DECON MATERIAL AND PIPE C-400 ZONE 4 "B TANK"		06/26/17	6	170	77	784	
9b.4	120689	120689-04	PAD17C35795	DECON MATERIAL AND PIPE C-400 ZONE 4 "B TANK"		06/26/17	6	144	65	664	
9b.4	120689	120689-05	PAD17C35796	DECON MATERIAL AND PIPE C-400 ZONE 4 "B TANK"		06/26/17	6	140	64	645	
9b.4	120689	120689-06	PAD17C35797	DECON MATERIAL AND PIPE C-400 ZONE 4 "B TANK"		06/26/17	5	22	10	101	
9b.4	120689	120689-07	PAD17C35798	DECON MATERIAL AND PIPE C-400 ZONE 4 "B TANK"		06/26/17	5	44	20	203	
9b.4	120689	120689-08	PAD17C35799	DECON MATERIAL AND PIPE C-400 ZONE 4 "B TANK"		06/26/17	4	72	33	332	
Totals							20	82.95	1885	855	10430

A-29

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name: US Department of Energy (Paducah Site) Manifest Doc. No.: 006841893 JJK
 Profile No.: DPF-07-047 thru P17-07-051 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.

NOTE: 120624 (D007), 120689 (D007, D008), 120644 (D006, D007), 120685 (D006, D007)

REF #	3. USEPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE	NONE	
1	D006	Cadmium	<input checked="" type="checkbox"/>	A
2	D007	Chromium	<input checked="" type="checkbox"/>	A
3	D008	Lead	<input checked="" type="checkbox"/>	A
4	N/A	N/A	<input type="checkbox"/>	N/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(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 MARK POLLEY BY Lonnie Pat Title WASTE ENGINEER Date 7/7/12

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

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

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

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

SUBCATEGORY REFERENCE

D001:

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

D002:

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

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: US Department of Energy (Paducah Site) Manifest Doc. No.: 006841893JJK
 Profile No.: P17-07-047 thru P17-07-051 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		
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ADW
7/7/17

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: MARIC POLLEN by Ronnie Berts Date: 7/7/17
 Title: WASTE ENGINEER

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name: US Department of Energy (Paducah Site) Manifest Doc. No. : 006B41893JJK

Profile No.: P17-07-047 thru P17-07-051 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	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"/>	
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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 MARK POLLEY By [Signature]
 Title WASTE ENGINEER

Date 7/7/17

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

Generator Name: US Department of Energy (Paducah Site) Manifest Doc. No.: 006841893JJK
 Profile No.: P17-07-047 thru P17-07-051 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		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
Aldcarb sulfone		0.056 ¹	0.28 ¹	Chloromethane/Methyl chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene		0.059	3.4
Aramite		0.36	NA	o-Cresol		0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol		0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol		0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate		0.056 ¹	1.4 ¹
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.056 ¹	1.4 ¹	o,p'-DDD		0.023	0.087
Bendiocarb		0.056 ¹	1.4 ¹	p,p'-DDD		0.023	0.087
Benomyl		0.056 ¹	1.4 ¹	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.055 ¹	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³		0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo (g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/ Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.042 ¹	1.4 ¹	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbaryl		0.006 ¹	0.14 ¹	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006 ¹	0.14 ¹	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.056 ¹	1.4 ¹	2,6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan		0.028 ¹	1.4 ¹	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
p-Chloroaniline		0.46	16	Dieldrin		0.017	0.13
Chlorobenzene		0.057	6.0	Diethyl phthalate		0.20	28

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg) unless noted
Chlorobenzilate		0.10	NA	p-Dimethylaminoazobenzene		0.13 ¹	NA
2,4-Dimethyl phenol		0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate		0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate		0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene		0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol		0.28	160	Methyl methansulfonate		0.018	NA
2,4-Dinitrophenol		0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoluene		0.32	140	Metolcarb		0.056 ¹	1.4 ¹
2,6-Dinitrotoluene		0.55	28	Mexacarbonate		0.056 ¹	1.4 ¹
Di-n-octyl phthalate		0.017	28	Molinate		0.042 ¹	1.4 ¹
Di-n-propyl nitrosamine		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)	A1	0.10	10
Ethyl methacrylate		0.14	160	Pebutate		0.042 ¹	1.4 ¹
Ethylene oxide		0.12	NA	Pentachlorobenzene		0.055 ¹	10 ¹
Famphur		0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene		0.068	3.4	PeCDFs (All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene		0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride		0.056 ¹	1.4 ¹	Pentachloronitrobenzene		0.055	4.8
Heptachlor		0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide		0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		0.055	10	Phenanthrene		0.059	5.6
Hexachlorobutadiene		0.055	5.6	Phenol		0.039	6.2
Hexachlorocyclopentadiene		0.057	2.4	Phorate		0.021	4.6
HxCDDs (All 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	0.86 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 ³ 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	A1	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 designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number KY 8890008982	2. Page 1 of <i>2</i>	3. Emergency Response Phone 1-270-441-6211	4. Manifest Tracking Number 006843002 JJK
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5. Generator's Name and Mailing Address U.S. DOE 670 Fluor Federal Services, Inc. (FPDP) 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 1-270-441-5000	Generator's Site Address (if different than mailing address) U.S. DOE 670 Fluor Federal Services, Inc. (FPDP) Paducah Gaseous Diffusion Plant, 5511 Hobbs Rd. Kevil, KY 42053
--	--

6. Transporter 1 Company Name CAST Transportation	U.S. EPA ID Number COR000005389
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7. Transporter 2 Company Name	U.S. EPA ID Number
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8. Designated Facility Name and Site Address M&C, Waste Treatment Facility 2010 Hwy 58, Suite 1020, Oak Ridge, TN 38998 Facility's Phone: 1-865-574-0335	U.S. EPA ID Number TNR000005397
---	------------------------------------

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					
RG 1.	UN3082, Environmentally hazardous substances, liquid, n.o.s., (PCB), 9, III, (contains Oil) "Marine Pollutant"	8	CM	8198 2633 RP 6-5-18	K			
2.								
3.								
4.								

RECEIVED
FEB 15 2018
BT

14. Special Handling Instructions and Additional Information TRUCK: 1435 Trailer: 507 TID: 2058594 Accumulation Start Date: PCB Start Date: 11-22-2017 AH ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See PCB Attachment for Additional Info Shipment ID: ETPP-17-188

15. GENERATOR'S/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 Exportor, 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 <i>Regina Pea</i>	Signature <i>Regina Pea</i>	Month 01	Day 10	Year 18
---	--------------------------------	-------------	-----------	------------

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
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
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Facility's Phone:

18c. Signature of Alternate Facility (or Generator)	Month	Day	Year
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19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H141	2.	3.	4.
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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>Kimberly Hoff</i>	Signature <i>Kimberly Hoff</i>	Month 1	Day 10	Year 18
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PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: J06843002 JJK

Shipment ID Number: ETPP-17-168

Shipment Date: 10/12/2017

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	120338	120338-03	PAD17C36177	THIS WAS CONSISTS OF RECYCLABLE NON-TSCA TRANSFORMER OIL DRAINED FROM THE 3PH3 AUXILLARY TRANSFORMER AT C-633 PUMP HOUSE. ACCORDING TO THE TSCA ANNUAL REPORT, THE PCB CONCENTRATIONS IN THE VARIOUS COMPARTMENTS OF THIS TRANSFORMER VARY DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE	01/00/00	41.44	2596	1178	2130	966
9b.1	120543	120543-01	PAD16C30444	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE	01/00/00	40.01	2596	1178	2278	1033
9b.1	120543	120543-03	PAD16C30446	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE	01/00/00	40.01	2626	1191	2160	980
9b.1	120543	120543-29	PAD16C31801	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE	01/00/00	40.1	2814	1276	2348	1065
9b.1	120543	120543-31	PAD16C31803	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE	01/00/00	40.1	2678	1215	2212	1003
9b.1	120543	120543-32	PAD16C31806	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE	01/00/00	40.1	2742	1244	2276	1032
9b.1	120543	120543-33	PAD16C31807	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE	01/00/00	40.1	2796	1268	2330	1057
9b.1	120543	120543-35	PAD16C31809	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE	01/00/00	40.1	2806	1273	2340	1061
Totals				8		321.96	21654	9822	18074	8198

A-38

Hugen, Alisa

From: Bertram, Lonnie
Sent: Thursday, February 15, 2018 4:15 PM
To: Hugen, Alisa
Cc: Bell, Brian
Subject: FW: GEL PCB Data for Paducah Totes
Attachments: GEL Analytical.pdf; PCB results Paducah totes (individual) with GEL results.xlsx

I am guessing we use November 22, 2017 as the PCB date for these. That would be the date we received official notification of confirmatory sampling results.

Lonnie Bertram

Four Rivers Nuclear Partnership, LLC
Waste Generator Services – Paducah Deactivation Project
lonnie.bertram@pad.pppo.gov | O +1 270-441-5876 |

From: Bell, Brian
Sent: Monday, November 27, 2017 7:40 AM
To: Bertram, Lonnie
Subject: FW: GEL PCB Data for Paducah Totes

Brian Bell | Four Rivers Nuclear Partnership
Waste Generator Manager - Paducah Deactivation Project
brian.bell@pad.pppo.gov | O +1 270-441-6698 | C +1 270-559-6295 |

From: Tibby Snipes [<mailto:TSnipes@perma-fix.com>]
Sent: Wednesday, November 22, 2017 10:45 AM
To: Bell, Brian
Subject: GEL PCB Data for Paducah Totes

Good Day Mr. Bell,

Hope all is well and I hope you have a safe and enjoyable Thanksgiving Holiday. Look forward to seeing you on Monday as well.

I am providing the GEL data and an excel spreadsheet that includes both our data (DSSI) and the GEL data for comparison. The GEL data shows we have 17 totes with PCB concentrations above 50 mg/kg versus DSSI's original count of 14 totes greater than 50 mg/kg. Would it be possible to get a point of contact within your compliance department? Our compliance manager at DSSI would like to have a call with your compliance person on Monday prior to contacting our EPA region coordinator regarding this occurrence. I'm leaving the office for the hospital, my grandson is being released this morning and I'm the transfer service coordinator for the project. Please call my cell phone if you have any questions.

S. J. Snipes II (Tibby)



Director, Sales
865-342-7609 (office)
865-617-6219 (mobile)
865-251-0355 (fax)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KY 8890008982	2. Page 1 of 2	3. Emergency Response Phone 1-270-441-8211	4. Manifest Tracking Number 006843005 JJK			
5. Generator's Name and Mailing Address U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 1-270-441-5000			Generator's Site Address (if different than mailing address) U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) 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 M&EC, Waste Treatment Facility 2010 Hwy 58, Suite 1020, Oak Ridge, TN 38998 Facility's Phone: 1-865-574-0335			U.S. EPA ID Number TNR000005397					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	RQ 1.	UN3082, Environmentally hazardous substances, liquid, n.o.s. (PCB). 9, PG III, contains oil "Marine Pollutant"	3	CM	3015 828 2015-18	K		
	2.							
	3.							
								
14. Special Handling Instructions and Additional Information Truck: 1268 524 MID: 2058591 Accumulation Start Date: PCB Start Date: 11-22-17-AT ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See PCB Attachment for Additional Info Shipment ID: ETPP-17-169								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name Regina Pea		Signature Regina Pea		Month	Day	Year		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of only exit: Date leaving U.S.:						
TRANSPORTER	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
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. H141		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 10a								
Printed/Typed Name Kimberly Host		Signature Kimberly Host		Month	Day	Year	1 10 18	

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 006843005 JJK

Shipment ID Number: ETPP-17-169

Shipment Date: 10/12/2017

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	120338	120338-04	PAD17C36178	THIS WAS CONSISTS OF RECYCLABLE NON-TSCA TRANSFORMER OIL DRAINED FROM THE 3PH3 AUXILLARY TRANSFORMER AT C-633 PUMP HOUSE. ACCORDING TO THE TSCA ANNUAL REPORT, THE PCB CONCENTRATIONS IN THE VARIOUS COMPARTMENTS OF THIS TRANSFORMER VARY BETWEEN 8.1 AND 34 PPM BY WEIGHT.	01/00/00	22.72	2644	1199	2189	993
9b.1	120543	120543-07	PAD16C31312	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH CONTAINER.	01/00/00	40.01	2720	1234	2254	1022
9b.1	120543	120543-30	PAD16C31802	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH CONTAINER.	01/00/00	38.76	2794	1267	2336	1060
Totals				3		101.49	8158	3700	6779	3075

A-42

Hugen, Alisa

From: Bertram, Lonnie
Sent: Thursday, February 15, 2018 4:15 PM
To: Hugen, Alisa
Cc: Bell,Brian
Subject: FW: GEL PCB Data for Paducah Totes
Attachments: GEL Analytical.pdf; PCB results Paducah totes (individual) with GEL results.xlsx

I am guessing we use November 22, 2017 as the PCB date for these. That would be the date we received official notification of confirmatory sampling results.

Lonnie Bertram

Four Rivers Nuclear Partnership, LLC
Waste Generator Services - Paducah Deactivation Project
lonnie.bertram@pad.pppo.gov | +1 270-441-5876 |

From: Bell,Brian
Sent: Monday, November 27, 2017 7:40 AM
To: Bertram, Lonnie
Subject: FW: GEL PCB Data for Paducah Totes

Brian Bell | Four Rivers Nuclear Partnership
Waste Generator Manager - Paducah Deactivation Project
brian.bell@pad.pppo.gov | O +1 270-441-6698 | C +1 270-559-6295 |

From: Tibby Snipes [<mailto:TSnipes@perma-fix.com>]
Sent: Wednesday, November 22, 2017 10:45 AM
To: Bell,Brian
Subject: GEL PCB Data for Paducah Totes

Good Day Mr. Bell,

Hope all is well and I hope you have a safe and enjoyable Thanksgiving Holiday. Look forward to seeing you on Monday as well.

I am providing the GEL data and an excel spreadsheet that includes both our data (DSSI) and the GEL data for comparison. The GEL data shows we have 17 totes with PCB concentrations above 50 mg/kg verses DSSI's original count of 14 totes greater than 50 mg/kg. Would it be possible to get a point of contact within your compliance department? Our compliance manager at DSSI would like to have a call with your compliance person on Monday prior to contacting our EPA region coordinator regarding this occurrence. I'm leaving the office for the hospital, my grandson is being released this morning and I'm the transfer service coordinator for the project. Please call my cell phone if you have any questions.

S. J. Snipes II (Tibby)



Director, Sales
865-342-7609 (office)
865-617-6219 (mobile)
865-251-0355 (fax)

Please print or type. (Form designed for use on elite (12-pltch) typewriter.)

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 1-270-441-6211	4. Manifest Tracking Number 006843006 JJK	
5. Generator Name and Mailing Address U.S. DOE 6/6 Fluor Federal Services, Inc. (FPDF) 5511 Hobbs Road, Kevill, KY 42053 1-270-441-5000			Generator's Site Address (If different than mailing address) U.S. DOE 6/6 Fluor Federal Services, Inc. (FPDF) 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 M&E, Waste Treatment Facility 2010 Hwy 58, Suite 1020, Oak Ridge, TN 38998 1-865-574-0335			U.S. EPA ID Number TNR000005397			
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. UN3082, Environmentally hazardous substances, liquid, n.o.s. (PCB), 9, PG III, contains oil "Marine Pollutant"	3 1 CM RQ 3/00/18		2405 634 RA 211 RQ 3/00/18	65/18 K	
<p>RECEIVED</p> <p>FEB 15 2018</p> <p><i>JAH</i></p>						
14. Special Handling Instructions and Additional Information PCB: 1431 Mailer: 527 MID: 2058555 Accumulation Start Date: PCB Start Date: 11-22-2017 ERG # 171 In the event of an RQ Release, call 1-800-424-8802 If undeliverable, return to generator See PCB Attachment for Additional Info Shipment ID: ETPP-17-170						
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 <i>Keirina Pea</i>		Signature <i>Keirina Pea</i>		Month 01	Day 10	Year 18
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of only 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
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: _____ U.S. EPA ID Number _____			
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)					Month	Day
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. <i>H141</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>Kimberly Holt</i>			Signature <i>Kimberly Holt</i>		Month	Day
					1	10

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 006843006 JJK

Shipment ID Number: ETPP-17-170

Shipment Date: 10/12/2017

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (#13)	GROSS WT (lb)	Gross Wt (kg)	Net Wt (lb)	NET Wt (kg)
9b.1	120543	120543-08	PAD16C31311	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH	01/00/00	18.42	2750	1247	2284	1036
9b.1	120543	120543-10	PAD16C31309	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH	01/00/00	36.09	1872	849	1406	638
9b.1	120543	120543-15	PAD16C31317	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH	01/00/00	40.1	2636	1196	2170	984
Totals			3			94.61	7258	3292	5860	2658

A-46

Hugen, Alisa

From: Bertram, Lonnie
Sent: Thursday, February 15, 2018 4:15 PM
To: Hugen, Alisa
Cc: Bell,Brian
Subject: FW: GEL PCB Data for Paducah Totes
Attachments: GEL Analytical.pdf; PCB results Paducah totes (individual) with GEL results.xlsx

I am guessing we use November 22, 2017 as the PCB date for these. That would be the date we received official notification of confirmatory sampling results.

Lonnie Bertram

Four Rivers Nuclear Partnership, LLC
Waste Generator Services – Paducah Deactivation Project
lonnie.bertram@pad.pppo.gov | +1 270-441-5876 |

From: Bell,Brian
Sent: Monday, November 27, 2017 7:40 AM
To: Bertram, Lonnie
Subject: FW: GEL PCB Data for Paducah Totes

Brian Bell | Four Rivers Nuclear Partnership
Waste Generator Manager - Paducah Deactivation Project
brian.bell@pad.pppo.gov | O +1 270-441-6698 | C +1 270-559-6295 |

From: Tibby Snipes [<mailto:TSnipes@perma-fix.com>]
Sent: Wednesday, November 22, 2017 10:45 AM
To: Bell,Brian
Subject: GEL PCB Data for Paducah Totes

Good Day Mr. Bell,

Hope all is well and I hope you have a safe and enjoyable Thanksgiving Holiday. Look forward to seeing you on Monday as well.

I am providing the GEL data and an excel spreadsheet that includes both our data (DSSI) and the GEL data for comparison. The GEL data shows we have 17 totes with PCB concentrations above 50 mg/kg verses DSSI's original count of 14 totes greater than 50 mg/kg. Would it be possible to get a point of contact within your compliance department? Our compliance manager at DSSI would like to have a call with your compliance person on Monday prior to contacting our EPA region coordinator regarding this occurrence. I'm leaving the office for the hospital, my grandson is being released this morning and I'm the transfer service coordinator for the project. Please call my cell phone if you have any questions.

S. J. Snipes II (Tibby)



Director, Sales
865-342-7609 (office)
865-617-6219 (mobile)
865-251-0355 (fax)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

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 1-270-441-6211	4. Manifest Tracking Number 006843007 JJK			
6. Generator Name and Mailing Address U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) 5511 Hobbs Road, Kevil, KY 42053 Generator's Phone: 1-270-441-5000				Generator's Site Address (if different than mailing address) U.S. DOE c/o Fluor Federal Services, Inc. (FPDP) 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 M&EC, Waste Treatment Facility 2010 Hwy 58, Suite 1020, Oak Ridge, TN 38998 Facility's Phone: 1-865-574-0335					U.S. EPA ID Number TNR000005397			
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 W./Vol.	13. Waste Codes
	RQ	UN3082, Environmentally hazardous substances, liquid, n.o.s. (PCB), 9, PG III, contains oil "Marine Pollutant"		3 ^{RF 118} ₊ CM		2290 2290 RF 118/19	K	
	2.							
	3.							
	4.							
								
14. Special Handling Instructions (if any) (40 CFR 171.15)		ERG # 171 In the event of an RQ Release, call 1-800-424-8802		Accumulation Start Date:		PCB Start Date: 11-22-2017AH		
Exclusive Use Shipment, See PCB Attachment for Additional Info				If undeliverable, return to generator Shipment ID: ETPP-17-171				
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 Regina Pen				Signature Regina Pen		Month Day Year 01 10 18		
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 Regina Pen				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)		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H141		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 Kimberly Holt				Signature Kimberly Holt		Month Day Year 1 10 18		

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 006843007JJK

Shipment ID Number: ETPP-17-171

Shipment Date: 10/12/2017

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	120543	120543-26	PAD16C31334	DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH CONTAINER.	01/00/00	26.73	2792	1266	2326	1055
9b.1	120543	120543-34	PAD16C31808	DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH CONTAINER.	01/00/00	44.11	846	384	380	172
9b.1	120543	120543-36	PAD16C31810	DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES. THE SOURCE LOCATION AND CHARGE CODE WILL BE DIFFERENTIATED ON THE WICL OF EACH CONTAINER.	01/00/00	40.1	2798	1269	2343	1063
Totals			3			110.94	6436	2919	5049	2290

A-50

Hugen, Alisa

From: Bertram, Lonnie
Sent: Thursday, February 15, 2018 4:15 PM
To: Hugen, Alisa
Cc: Bell,Brian
Subject: FW: GEL PCB Data for Paducah Totes
Attachments: GEL Analytical.pdf; PCB results Paducah totes (individual) with GEL results.xlsx

I am guessing we use November 22, 2017 as the PCB date for these. That would be the date we received official notification of confirmatory sampling results.

Lonnie Bertram

Four Rivers Nuclear Partnership, LLC
Waste Generator Services – Paducah Deactivation Project
lonnie.bertram@pad.pppo.gov | O +1 270-441-5876 |

From: Bell,Brian
Sent: Monday, November 27, 2017 7:40 AM
To: Bertram, Lonnie
Subject: FW: GEL PCB Data for Paducah Totes

Brian Bell | Four Rivers Nuclear Partnership
Waste Generator Manager - Paducah Deactivation Project
brian.bell@pad.pppo.gov | O +1 270-441-6698 | C +1 270-559-6295 |

From: Tibby Snipes [<mailto:TSnipes@perma-fix.com>]
Sent: Wednesday, November 22, 2017 10:45 AM
To: Bell,Brian
Subject: GEL PCB Data for Paducah Totes

Good Day Mr. Bell,

Hope all is well and I hope you have a safe and enjoyable Thanksgiving Holiday. Look forward to seeing you on Monday as well.

I am providing the GEL data and an excel spreadsheet that includes both our data (DSSI) and the GEL data for comparison. The GEL data shows we have 17 totes with PCB concentrations above 50 mg/kg verses DSSI's original count of 14 totes greater than 50 mg/kg. Would it be possible to get a point of contact within your compliance department? Our compliance manager at DSSI would like to have a call with your compliance person on Monday prior to contacting our EPA region coordinator regarding this occurrence. I'm leaving the office for the hospital, my grandson is being released this morning and I'm the transfer service coordinator for the project. Please call my cell phone if you have any questions.

S. J. Snipes II (Tibby)



Director, Sales
865-342-7609 (office)
865-617-6219 (mobile)
865-251-0355 (fax)

APPENDIX B

PCB WASTE CERTIFICATES OF DISPOSAL

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CERTIFICATE OF DISPOSAL

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

DOE, Paducah, Paducah

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

<u>Shipment</u>	<u>Manifest</u>	<u>Disposal Date</u>	<u>Volume (Cu/Ft)</u>	<u>Process</u>	<u>Disposal Location</u>
9701-24-0001	N/A	03/30/2017	2.0	Landfill	Mixed Waste
9701-24-0003	41826	03/30/2017	90.0	Landfill	Mixed Waste



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

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

Brian Beynon
Mar 31 2017 10:33 AM

cosign

Brian Beynon
Operations Manager

Date

EPA ID# TND982109142
COD Number: TS2017010



657 Gallaher Road
Kinston, TN 37763

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, TN 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: 3/27/2017

Attached list of containers from Shipment Number DSSI-17-009

Shipped on Hazardous Waste Manifest Number 006841839JJK

Generator Name US Dept of Energy - Fluor Federal Services, Inc.
EPA ID No. KY8890008982
Address 5600 Hobbs Road

City, State, Zip Paducah KY 42001-
Contact 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. 2815), 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: Dawn Garrett

Title: Waste Tracking Shipping

Signature:

A handwritten signature in black ink that reads 'Dawn Garrett'. The signature is written in a cursive style and is positioned to the right of the 'Signature:' label.

Certificate of Destruction
TS2017010

ShipmentNumber	HazManifestNumber	WPSNumber	PackageNumber	ItemNumber	BurnCampaignNumber	DateBurnStop	GeneratorCode	WasteCode	DateReceived
DSSI-17-009	006841839JJK	17-01-017	73592	120306-05	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73593	120306-06	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73594	120306-07	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73595	120306-08	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73596	120306-09	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73597	120306-10	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73598	120306-11	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73599	120306-12	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73600	120306-13	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73601	120306-14	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73602	120306-15	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73603	120306-16	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73604	120306-17	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73605	120306-18	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73606	120306-27	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73607	120587-07	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73608	120587-24	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73609	120903-01	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73610	120903-02	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73611	120903-03	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73612	120903-04	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-009	006841839JJK	17-01-017	73613	120905-01	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17



 RECEIVED
 APR 13 2017
AA

T

EPA ID# TND982109142
COD Number: TS2017009



657 Gallaher Road
Kinston, TN 37763

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, TN 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: 3/27/2017

Attached list of containers from Shipment Number DSSI-17-008

Shipped on Hazardous Waste Manifest Number 006841845JJK

Generator Name US Dept of Energy - Fluor Federal Services, Inc.
EPA ID No. KY8890008982
Address 5600 Hobbs Road

City, State, Zip Paducah KY 42001-
Contact 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. 2815), 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: Dawn Garrett

Title: Waste Tracking Shipping

Signature: *Dawn Garrett*

Certificate of Destruction
TS2017009

ShipmentNumber	HazManifestNumber	WPSNumber	PackageNumber	ItemNumber	ItemCampaignNumber	DateBurnStop	GeneratorCode	WasteCode	DateReceived
DSSI-17-008	006841845JJK	17-01-017	73637	119802-04	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73638	119802-05	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73639	119802-06	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73640	119802-07	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73658	120306-28	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73659	120306-29	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73660	120306-30	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73661	120306-31	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73662	120306-32	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73663	120306-33	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73664	120306-34	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73665	120306-35	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73666	120587-01	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73667	120587-02	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73668	120587-03	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73669	120587-04	17-003	27-Mar-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17



 RECEIVED
 APR 13 2017
 BY: *AA*



6/2/16

FLUOR FEDERAL SERVICES / BEHALF OF USDOE
MS C-730-T6
5511 HOBBS ROAD
KEVIL, KY 42063

REF: MANIFEST NUMBER: 006841810JJK

SHIPMENT NUMBER: **NUC-258-O/H**

CERTIFICATE OF TREATMENT/DISPOSAL

THIS IS TO CERTIFY THAT THE WASTE MATERIALS RECEIVED FROM:

FLUOR FEDERAL SERVICES ON BEHALF OF USDOE
MANIFEST NUMBER 006841810JJK

HAS BEEN DISPOSED OF IN FULL, IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL
LAWS AND REGULATIONS.

RAYMOND WHITTLE, GENERAL MANAGER

RECEIVED
JUN 12 2017
BY: *Push via email*

EPA ID No. : FLD 980 711 071
Florida Part B Permit No. : 17680-011-HO

Certificate No. 20170718-001



Certificate of Management

Perma-Fix of Florida, Inc. has

managed wastes received from: U.S. DOE c/o Fluor Federal Services, Inc. (FPDP)

EPA ID Number: KY8890008982

Manifest Number: 006841810JJJK

5/18/2017

Shipment ID Number: NUC-258-Q

Date Received: 6/30/2016

**as identified in waste
and hereby certifies such management as of
in accordance with applicable Federal and
State Regulations.**

(Refer to the attached table for container specific information)

Generator: U.S. DOE c/o Fluor Federal Services, Inc. (FPDP)

Address: 5511 Hobbs Road
Kevil, KY 42053

By: Randy Self
Title: Site Nuclear Manager

Signature: _____

A handwritten signature in black ink, appearing to read "Randy Self", is written over a horizontal line.



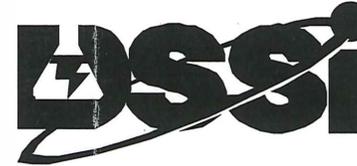
**Certificate
of
Management**

Perma-Fix ID No.	Generator ID No.	Profile No.	Final Package ID No.	Disposal Manifest No.	Date Shipped	Receiving Facility
NUC-258-01	115917-01	RS-11600	WCS-401	WCS-PFF-101	12/16/2016	WCS
NUC-258-02	118321-01	RS-11600	WCS-402	WCS-PFF-101	12/16/2016	WCS
NUC-258-03	118321-02	RS-11600	WCS-401	WCS-PFF-101	12/16/2016	WCS
NUC-258-04	118321-03	RS-11600	WCS-402	WCS-PFF-101	12/16/2016	WCS
NUC-258-05	120194-01	RS-11599	T-16219	013860345JJK	8/16/2016	DSSI
NUC-258-06	108325-01	RS-11597	E-3591 E-3592 E-3599 E-3600	013854140JJK	5/18/2017	EnergySolutions
NUC-258-07	117399-01	RS-11597	E-3591 E-3592 E-3599 E-3600	013854140JJK	5/18/2017	EnergySolutions
NUC-258-08	120085-02	RS-11598	T-16219	013860345JJK	8/16/2016	DSSI
NUC-258-09	120250-01	60378-T	16198	013860252JJK	7/13/2016	LEI

T

EPA ID# TND982109142

COD Number: TS2017017



657 Gallaher Road
Kinston, TN 37763

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, TN 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: 5/18/2017

Attached list of containers from Shipment Number DSSI-17-008

Shipped on Hazardous Waste Manifest Number 006841845JJK

Generator Name US Dept of Energy - Fluor Federal Services, Inc.
EPA ID No. KY8890008982
Address 5600 Hobbs Road

City, State, Zip Paducah KY 42001-
Contact 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: Dawn Garrett

Title: Waste Tracking Shipping

Signature: *Dawn Garrett*

B-11

Certificate of Destruction
TS2017017

ShipmentNumber	HazManifestNumber	WPSNumber	PackageNumber	ItemNumber	BurnCampaignNumber	DateBurnStop	GeneratorCode	WasteCode	DateReceived
DSSI-17-008	006841845JJK	17-01-017	73614	115919-01	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73615	115919-02	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73616	115919-03	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73617	115919-04	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73618	115919-05	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73619	115919-06	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73620	115919-07	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73621	115919-08	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73622	115919-09	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73623	115919-10	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73624	115919-11	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73625	115919-12	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73626	115919-13	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73627	115919-14	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73628	115919-15	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73629	115919-16	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73630	115919-17	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73631	115919-18	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73632	115919-19	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73633	115919-20	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73634	115919-21	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73635	115919-22	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73636	115919-23	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73641	119802-08	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73642	119802-09	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73643	119802-10	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73644	119802-11	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73645	119802-12	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73646	120306-01	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73647	120306-02	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73648	120306-03	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73649	120306-04	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73650	120306-19	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73651	120306-20	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73652	120306-21	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73653	120306-22	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17



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 BY: J. Shaffer

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DSSI-17-008	006841845JJK	17-01-017	73654	120306-23	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73655	120306-24	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73656	120306-25	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73657	120306-26	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73670	120587-05	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73671	120587-06	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73672	120587-08	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73673	120587-09	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73674	120587-10	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73675	120587-11	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73676	120587-12	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73677	120587-13	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73678	120587-14	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73679	120587-15	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73680	120587-16	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73681	120587-17	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73682	120587-18	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73683	120587-19	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73684	120587-20	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73685	120587-21	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73686	120587-22	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73687	120587-23	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73688	120903-05	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73689	120903-06	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73690	120903-07	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73691	120903-08	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73692	120905-02	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17
DSSI-17-008	006841845JJK	17-01-017	73693	120907-01	17-007	18-May-17	KYFLU01	Bulk Liquid - PCBs	26-Jan-17

B-13

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 JUN 19 2017
guly
 BY: *J. Shaffer*

RT

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>
9701-02-0017	41869	07/24/2017	309.5	Landfill	Mixed Waste

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AUG 25 2017
AA

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

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

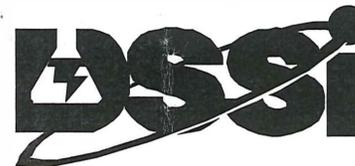
Brian Beynon
Aug 2 2017 7:07 AM

Brian Beynon
Operations Manager

Date

EPA ID# TND982109142

COD Number: TS2017050



657 Gallaher Road
Kinston, TN 37763

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, TN 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: 11/9/2017

Attached list of containers from Shipment Number DSSI-17-076

Shipped on Hazardous Waste Manifest Number 006841878JJK

Generator Name US Dept of Energy - Fluor Federal Services, Inc.
EPA ID No. KY8890008982
Address 5600 Hobbs Road

City, State, Zip Paducah KY 42001-
Contact 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: Dawn Garrett

Title: Waste Tracking Shipping

Signature:

A handwritten signature in blue ink that reads 'Dawn Garrett'.



Certificate of Destruction
TS2017050

ShipmentNumber	HazManifestNumber	WPSNumber	PackageNumber	ItemNumber	BurnCampaignNumber	DateBurnStop	GeneratorCode	WasteCode	DateReceived
DSSI-17-076	006841878JJK	17-06-053	74666	120903-09	17-017	11/9/2017	KYFLU01	Bulk Liquid - PCBs	23-Jun-17
DSSI-17-076	006841878JJK	17-06-053	74667	120903-10	17-017	11/9/2017	KYFLU01	Bulk Liquid - PCBs	23-Jun-17
DSSI-17-076	006841878JJK	17-06-053	74668	120903-11	17-017	11/9/2017	KYFLU01	Bulk Liquid - PCBs	23-Jun-17
DSSI-17-076	006841878JJK	17-06-053	74669	120903-12	17-017	11/9/2017	KYFLU01	Bulk Liquid - PCBs	23-Jun-17
DSSI-17-076	006841878JJK	17-06-053	74670	120905-03	17-017	11/9/2017	KYFLU01	Bulk Liquid - PCBs	23-Jun-17
DSSI-17-076	006841878JJK	17-06-053	74671	120907-02	17-017	11/9/2017	KYFLU01	Bulk Liquid - PCBs	23-Jun-17
DSSI-17-076	006841878JJK	17-06-053	74672	120909-01	17-017	11/9/2017	KYFLU01	Bulk Liquid - PCBs	23-Jun-17
DSSI-17-076	006841878JJK	17-06-052	74673	120920-01	17-017	11/9/2017	KYFLU01	Bulk Liquid - PCBs	23-Jun-17

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AA

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>
9701-26-0002	41884	08/17/2017	0.8	Landfill	Mixed Waste

RECEIVED
 SEP 28 2017
 BY: *AA*

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

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



Brian Beynon
 Aug 29 2017 6:18 AM

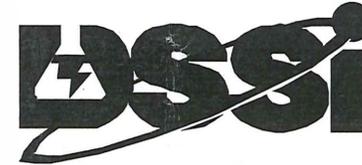
 Brian Beynon
 Operations Manager

 Date cosign

RT

EPA ID# TND982109142

COD Number: TS2017041



657 Gallaher Road
Kinston, TN 37763

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, TN 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: 10/25/2017

Attached list of containers from Shipment Number DSSI-17-082

Shipped on Hazardous Waste Manifest Number 006841890JJK

Generator Name US Dept of Energy - Fluor Federal Services, Inc.
EPA ID No. KY8890008982
Address 5600 Hobbs Road

City, State, Zip Paducah KY 42001-
Contact 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: Dawn Garrett

Tite: Waste Tracking Shipping

Signature:

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B-18

Certificate of Destruction
TS2017041

ShipmentNumber	HazManifestNumber	WPSNumber	PackageNumber	ItemNumber	BurnCampaignNumber	DateBurnStop	GeneratorCode	WasteCode	DateReceived
DSSI-17-082	006841890JK	17-07-009	74756	120648-01	17-015	25-Oct-17	KYFLU01	Bulk Liquid - PCBs	12-Jul-17

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BY: *AA*

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APPENDIX C

PCB WASTE STORAGE AREA INSPECTION RECORDS

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-331					
	G-331-PCB-01	1/17/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	2/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	3/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	4/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	5/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	6/6/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	7/5/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-3

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-331-PCB-01	8/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	8/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	9/27/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	10/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	11/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-331-PCB-01	12/13/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-333					
	G-333-PCB-01	1/17/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-4

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-333-PCB-01		2/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-PCB-01		3/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-PCB-01		4/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-PCB-01		5/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-PCB-01		6/6/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-PCB-01		7/5/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-PCB-01		8/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-333-PCB-01		8/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-5

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-333-PCB-01	9/28/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-333-PCB-01	10/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-333-PCB-01	11/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-333-PCB-01	12/13/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-335					
	G-335-04	1/17/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-335-04	2/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-335-04	3/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-6

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-335-04		4/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-335-04		5/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-335-04		6/6/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-335-04		7/5/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-335-04		8/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-335-04		8/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-335-04		9/28/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-335-04		10/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-335-04		11/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-335-04		12/13/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-337					
G-337-02		1/18/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		2/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		3/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		4/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		5/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-8

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-02		6/6/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		7/5/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		8/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		8/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		9/27/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		10/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		11/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-02		12/13/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

G-9

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-03		1/18/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SPILL REPORT #789
G-337-03		2/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SPILL REPORT #789
G-337-03		3/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SPILL REPORT #789
G-337-03		4/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		5/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		6/6/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		7/5/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		8/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-03		8/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		9/27/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		10/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		11/16/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-03		12/13/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		1/18/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		2/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		3/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

G-11

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-05		4/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		5/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		6/6/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		7/5/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		8/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		8/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		9/28/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		10/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-12

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-05		11/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-05		12/13/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-01		1/18/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-01		2/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-01		3/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-01		4/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-01		5/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-01		6/6/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

G-13

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-PCB-01		7/5/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-01		8/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-01		8/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-01		9/27/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		1/18/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		2/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		3/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		4/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-14

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-337-PCB-02		5/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		6/6/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		7/5/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		8/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		8/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		9/27/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		10/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-337-PCB-02		11/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

C-15

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-337-PCB-02	12/13/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733					
	C-733	1/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	2/7/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	3/7/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	4/4/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	5/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-733	6/27/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		7/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		8/22/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		9/19/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		10/17/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		10/24/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		11/21/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-733		12/19/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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C-746-Q

CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-746-Q		1/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		2/7/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		3/7/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		4/4/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		5/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		6/27/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		7/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-746-Q		8/22/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	C-746-Q	9/19/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-746-Q	10/17/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-746-Q	10/24/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-746-Q	11/21/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-746-Q	12/19/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A					
	C-752-A	1/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	2/7/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-752-A		3/7/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		4/4/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		5/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		6/27/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		7/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		8/22/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		9/19/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-752-A		10/17/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	C-752-A	10/24/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	11/21/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-752-A	12/19/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A				
	C-753-A	1/4/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A	2/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A	3/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A	3/29/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-753-A		4/26/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		5/24/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		6/21/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		7/19/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		8/16/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		9/13/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		10/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C-753-A		10/17/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
	C-753-A	10/24/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A	11/21/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-753-A	12/19/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	C-757				
	G-757-03	1/17/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	2/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	3/14/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	G-757-03	4/11/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-757-03		5/10/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		6/7/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		7/5/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		8/1/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		8/30/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		9/27/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		10/25/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G-757-03		11/15/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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CY 2017 PCB Waste Inspection Summary Report

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-757-03		12/13/2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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APPENDIX D

PCB WASTE INVENTORY TABLES

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TABLES

D.1.	Corrections and Adjustments to the December 31, 2016, Inventory	D-5
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D.4.	PCB Waste Shipped for Disposal in CY 2017.....	D-13
D.5	PCB Waste Inventory as of December 31, 2017	D-24

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Table D.1. Corrections and Adjustments to the December 31, 2016, Inventory

Adj	RFD	WasteID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
0	119740	119740-01	PCB Article Container	PCB BALLASTS AND SOLIDS	4/6/2015	S	10	Proc Bldgs	TM	Weight changed from 91 kg to 101 kg
0	119744	119744-01	PCB Article Container	PCB BALLASTS	3/27/2015	S	46	Proc Bldgs	TM	Weight changed from 91 kg to 137 kg
1	120614	120614-01	PCB Article Container	PCB Articles, Wood, Pumps, Drum VACs	3/27/2015	S	5189	C-400	TM	Information received after 2016 report submittal
1	120647	120647-01	PCB Article Container	MILLERS FLUORINATED LUBRICANT SYSTEM SCRAP METAL, PPE	12/2/2016	S	1271	C-400	RTM	Changed from PCB Bulk Product waste to PCB Remediation waste
1	120647	120647-02	PCB Article Container	MILLERS FLUORINATED LUBRICANT SYSTEM SCRAP METAL, PPE	12/6/2016	S	1074	C-400	RTM	Changed from PCB Bulk Product waste to PCB Remediation waste
1	119803	119803-10	PCB Container	VENT DUCT SOLIDS	8/18/2016	S	49	Proc Bldgs	TM	In-process collection container at time of 2016 report submittal
1	119845	119845-59	PCB Container	PCB ABSORBENTS	4/22/2016	S	35	C-337	TM	Information received after 2016 report submittal
1	119845	119845-60	PCB Container	PCB ABSORBENTS	10/3/2016	S	43	C-337	TM	Information received after 2016 report submittal

Table D.1. Corrections and Adjustments to the December 31, 2016, Inventory (Continued)

Adj	RFD	WasteID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
1	119863	119863-01	PCB Container	PCB CONTAMINATED METAL	6/3/2015	S	155	C-337	TM	Information received after 2016 report submittal
1	119874	119874-05	PCB Container	PCB ABSORBENTS	10/6/2015	S	113	C-337	TM	Information received after 2016 report submittal
1	119874	119874-06	PCB Container	PCB ABSORBENTS	9/17/2015	S	113	C-337	TM	Information received after 2016 report submittal
1	119874	119874-07	PCB Container	PCB ABSORBENTS	12/16/2015	S	59	C-337	TM	Information received after 2016 report submittal
1	119874	119874-08	PCB Container	PCB ABSORBENTS	12/17/2015	S	82	C-337	TM	Information received after 2016 report submittal
1	119874	119874-09	PCB Container	PCB ABSORBENTS	1/22/2016	S	80	C-337	TM	Information received after 2016 report submittal
1	119874	119874-10	PCB Container	PCB ABSORBENTS	1/29/2016	S	58	C-337	TM	Information received after 2016 report submittal

Table D.1. Corrections and Adjustments to the December 31, 2016, Inventory (Continued)

Adj	RFD	WasteID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
1	119874	119874-11	PCB Container	PCB ABSORBENTS	4/8/2016	S	41	C-337	TM	Information received after 2016 report submittal
1	119874	119874-12	PCB Container	PCB ABSORBENTS	10/17/2016	S	31	C-337	TM	Information received after 2016 report submittal
1	119881	119881-01	PCB Container	PCB ABSORBENTS	9/3/2015	S	39	C-333	TM	Information received after 2016 report submittal
1	120648	120648-01	PCB Container	Water from Lines in Zone 2 (MFL) Area	12/7/2016	L	15	C-400	RTM	In-process collection container at time of 2016 report submittal
0	120904	120904-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-337	11/1/2016	S	5	C-337	TM	Weight changed to 57 kg from 52 kg
1	120906	120906-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-335	10/18/2016	S	34	C-335	TM	In-process collection container at time of 2016 report submittal
1	120908	120908-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-333	10/18/2016	S	44	C-333	TM	In-process collection container at time of 2016 report submittal
1	120909	120909-01	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-331	11/30/2016	L	58	C-331	TM	In-process collection container at time of 2016 report submittal
1	120910	120910-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-331	11/30/2016	S	45	C-331	TM	In-process collection container at time of 2016 report submittal

Table D.1. Corrections and Adjustments to the December 31, 2016, Inventory (Continued)

Adj	RFD	WasteID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
1	120920	120920-01	PCB Container	VENTILATION DUCT OIL	11/16/2016	L	7	C-333	TM	In-process collection container at time of 2016 report submittal
1	121161	121161-01	PCB Container	VENT DUCT SOLIDS	3/11/2016	S	48	Proc Bldgs	TM	Information received after 2016 report submittal
TOTAL CORRECTIONS AND ADJUSTMENTS TO THE DECEMBER 31, 2016, INVENTORY:							8,745			

L = Liquid

RTM = RCRA-TSCA Mixed (i.e., RCRA and PCB/radioactive)

S = Solid

TM = TSCA Mixed (i.e., PCB/radioactive)

Table D.2. PCB Waste Generated in 2017

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kgs)	Physical	Current Facility	Source	Waste Category
120647	120647-03	PCB Article Container	F-LISTED FLOOR PANS	2/13/2017	1,301	S	C-752-A	C-400	RTM
120672	120672-01	PCB Article Container	PCB OIL FILLED CAPACITOR	2/16/2017	5	S	C-752-A	C-400	TM
121053	121053-01	PCB Article Container	PCB BALLASTS, CAPACITORS AND SMALL TRANSFORMERS (COLLECTION)	3/21/2017	49	S	C-752-A	Various	TM
121084	121084-01	PCB Article Container	PCB BALLASTS/TRANSFORMERS/CAPACITORS	4/25/2017	237	S	C-752-A	Various	TM
121208	121208-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	7/10/2017	164	S	C-752-A	C-757	TM
121272	121272-01	PCB Article Container	POTHEAD AND PLC CABLE	9/12/2017	818	S	C-752-A	Various	RTM
121277	121277-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	10/4/2017	91	S	C-752-A	Various	TM
125104	125104-01	PCB Article Container	LIGHT BALLASTS	5/1/2017	1,725	S	C-752-A	C-400	TM
125105	125105-01	PCB Article Container	PCB BALLASTS (LEAKING)	5/3/2017	200	S	C-752-A	C-400	TM
125105	125105-02	PCB Article Container	PCB BALLASTS (LEAKING)	5/3/2017	242	S	C-752-A	C-400	TM
125105	125105-03	PCB Article Container	PCB BALLASTS (LEAKING)	5/15/2017	118	S	C-752-A	C-400	TM
125127	125127-01	PCB Article Container	CAPACITORS/BALLASTS	6/26/2017	119	S	C-752-A	C-400	TM
120338	120338-03	PCB Container	DIELECTRIC FLUID DRAINED FROM THE 3PH3 AUXILLARY TRANSFORMER AT C-633 PUMP HOUSE	11/22/2017	1,178	L	C-633	C-633	TM
120338	120338-04	PCB Container	DIELECTRIC FLUID DRAINED FROM THE 3PH3 AUXILLARY TRANSFORMER AT C-633 PUMP HOUSE	11/22/2017	1,199	L	C-633	C-633	TM
120543	120543-01	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,178	L	C-633	C-633	TM

Table D.2. PCB Waste Generated in 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kgs)	Physical	Current Facility	Source	Waste Category
120543	120543-03	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,191	L	C-633	C-633	TM
120543	120543-07	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,234	L	C-633	C-633	TM
120543	120543-08	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,247	L	C-633	C-633	TM
120543	120543-10	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	849	L	C-633	C-633	TM
120543	120543-15	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,196	L	C-637	C-637	TM
120543	120543-26	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,266	L	C-637	C-637	TM
120543	120543-29	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,276	L	C-633	C-633	TM
120543	120543-30	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,267	L	C-633	C-633	TM
120543	120543-31	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,215	L	C-633	C-633	TM
120543	120543-32	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,244	L	C-633	C-633	TM
120543	120543-33	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,268	L	C-633	C-633	TM
120543	120543-34	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	384	L	C-637	C-637	TM

Table D.2. PCB Waste Generated in 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kgs)	Physical	Current Facility	Source	Waste Category
120543	120543-35	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,273	L	C-633	C-633	TM
120543	120543-36	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017	1,269	L	C-633	C-633	TM
120624	120624-01	PCB Container	HOLDUP, RESIDUE, RAGS FROM NICKEL STRIPPER EVAPORATION UNIT	5/8/2017	14	S	C-752-A	C-400	RTM
120903	120903-09	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	1/4/2017	208	L	C-746-Q	C-337	TM
120903	120903-10	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	1/25/2017	216	L	C-746-Q	C-337	TM
120903	120903-11	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	3/8/2017	195	L	C-746-Q	C-337	TM
120903	120903-12	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	4/17/2017	161	L	C-746-Q	C-337	TM
120904	120904-02	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-337	3/20/2017	48	S	C-753-ARPK	C-337	TM
120905	120905-03	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-335	1/18/2017	156	L	C-746-Q	C-335	TM
120907	120907-02	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-333	1/18/2017	118	L	C-746-Q	C-333	TM
120972	120972-01	PCB Container	EMPTY PCB CONTAINER	1/4/2017	60	S	C-753-ARPK	C-746-Q	TM
121072	121072-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	5/11/2017	48	S	C-752-A	C-331	TM
121073	121073-01	PCB Container	VENTILATION DUCT OIL AND WATER C-331	4/25/2017	108	L	C-752-A	C-331	TM
121074	121074-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	5/15/2017	47	S	C-752-A	C-333	TM
121075	121075-01	PCB Container	PCB VENTILATION DUCT OIL AND WATER	4/25/2017	196	L	C-752-A	C-333	TM
121076	121076-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	4/26/2017	132	S	C-752-A	C-335	TM
121076	121076-02	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	10/19/2017	37	S	C-752-A	C-335	TM

Table D.2. PCB Waste Generated in 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kgs)	Physical	Current Facility	Source	Waste Category
121077	121077-01	PCB Container	VENTILATION DUCT OIL AND WATER	4/26/2017	205	L	C-746-Q	C-335	TM
121077	121077-02	PCB Container	VENTILATION DUCT OIL AND WATER	5/1/2017	216	L	C-746-Q	C-335	TM
121077	121077-03	PCB Container	VENTILATION DUCT OIL AND WATER	5/1/2017	210	L	C-746-Q	C-335	TM
121077	121077-04	PCB Container	VENTILATION DUCT OIL AND WATER	5/1/2017	207	L	C-746-Q	C-335	TM
121077	121077-05	PCB Container	VENTILATION DUCT OIL AND WATER	5/4/2017	219	L	C-746-Q	C-335	TM
121077	121077-06	PCB Container	VENTILATION DUCT OIL AND WATER	5/9/2017	198	L	C-752-ARPK	C-335	TM
121078	121078-01	PCB Container	VENT DUCT SOLIDS	4/25/2017	52	S	C-752-A	C-337	TM
121078	121078-02	PCB Container	PCB SPILL CLEANUP DEBRIS	10/9/2017	41	S	C-752-A	C-337	TM
121078	121078-03	PCB Container	SPILL CLEANUP DEBRIS	10/12/2017	42	S	C-752-A	C-337	TM
121078	121078-04	PCB Container	SPILL CLEANUP DEBRIS	11/29/2017	24	S	C-752-A	C-337	TM
121079	121079-01	PCB Container	PCB VENTILATION DUCT OIL AND WATER	4/25/2017	211	L	C-746-Q	C-337	TM
121079	121079-02	PCB Container	PCB VENTILATION DUCT OIL AND WATER	4/27/2017	218	L	C-746-Q	C-337	TM
121079	121079-03	PCB Container	PCB VENTILATION DUCT OIL AND WATER	7/12/2017	169	L	C-752-A	C-337	TM
121079	121079-04	PCB Container	PCB VENTILATION DUCT OIL AND WATER	5/9/2017	32	L	C-752-A	C-337	TM
121255	121255-01	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING, POST-TSCA RINSE.	8/23/2017	224	L	C-746-Q	C-337	TM
125118	125118-01	PCB Container	SAMPLE RETURNS FROM C-400	6/6/2017	7	S	C-752-A	C-400	RTM
125150	125150-01	PCB Container	PCB OIL FROM C-400 ZONE, 16 J-BOX	9/19/2017	144	L	C-752-A	C-400	TM
125150	125150-02	PCB Container	PCB OIL FROM C-400 ZONE 16, J-BOX	9/20/2017	142	L	C-752-A	C-400	TM
125151	125151-01	PCB Container	PCB CONTAMINATED PPE, ETC C-400, ZONE 16, J-BOX OIL DRAINING	9/20/2017	29	S	C-752-A	C-400	TM

TOTAL PCB WASTE GENERATED IN CY 2017: 29,135

L = Liquid

RTM = RCRA-TSCA Mixed (i.e., RCRA and PCB/radioactive)

S = Solid

TM = TSCA Mixed (i.e., PCB/radioactive)

Table D.3. Adjustments to the 2017 Inventory

Adj	RFD	WasteID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
-1	119740	119740-01	PCB Article Container	PCB BALLASTS AND SOLIDS	4/6/2015	S	-101	Proc Bldgs	TM	Repacked into 120614-01
-1	119744	119744-01	PCB Article Container	PCB BALLASTS	3/27/2015	S	-137	Proc Bldgs	TM	Repacked into 120614-01
-1	119747	119747-01	PCB Article Container	POTENTIAL PCB CONTAMINATED DOOR CLOSERS	6/3/2015	S	-165	Proc Bldgs	TM	Repacked into 120614-01
-1	119803	119803-06	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	3/11/2016	S	-76	Proc Bldgs	TM	Repacked into 120614-01
-1	119803	119803-07	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	4/19/2016	S	-46	Proc Bldgs	TM	Repacked into 120614-01
-1	119803	119803-08	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	1/21/2016	S	-60	Proc Bldgs	TM	Repacked into 120614-01
-1	119803	119803-09	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	7/11/2016	S	-80	Proc Bldgs	TM	Repacked into 120614-01
-1	119803	119803-10	PCB Container	VENT DUCT SOLIDS	8/18/2016	S	-49	Proc Bldgs	TM	Repacked into 120614-01
-1	119845	119845-56	PCB Container	PCB Absorbents	4/22/2016	S	-43	C-337	TM	Repacked into 120614-01
-1	119845	119845-57	PCB Container	PCB Absorbents	4/22/2016	S	-45	C-337	TM	Repacked into 120614-01
-1	119845	119845-58	PCB Container	PCB CONTAMINATED SOLIDS (RAGS) GENERATED FROM TRANSFORMER PROJECT	4/22/2016	S	-44	C-337	TM	Repacked into 120614-01
-1	119845	119845-62	PCB Container	PCB CONTAMINATED SOLIDS (RAGS) GENERATED FROM TRANSFORMER PROJECT	6/2/2016	S	-54	C-337	TM	Repacked into 120614-01
-1	120904	120904-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-337	11/1/2016	S	-57	C-337	TM	Repacked into 120614-01
-1	120908	120908-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-333	10/18/2016	S	-44	C-333	TM	Repacked into 120614-01
-1	120910	120910-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-331	11/30/2016	S	-45	C-331	TM	Repacked into 120614-01
-1	120904	120904-02	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-337	3/20/2017	S	-48	C-337	TM	Repacked into 120614-01

Table D.3. Adjustments to the 2017 Inventory (Continued)

Adj	RFD	WasteID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments	
-1	120972	120972-01	PCB Container	Empty PCB Container	1/4/2017	S	-60	C-746-Q	TM	Repacked into 120614-01	
TOTAL ADJUSTMENTS TO CY 2017 INVENTORY:							-1,154				

L = Liquid

RTM = RCRA-TSCA Mixed (i.e., RCRA and PCB/radioactive)

S = Solid

TM = TSCA Mixed (i.e., PCB/radioactive)

Table D.4. PCB Waste Shipped for Disposal in 2017

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kgs)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
120614	120614-01	PCB Article Container	PCB ARTICLES, WOOD, PUMPS, DRUM VACs	3/27/2015	C-753-A	5,189	S	C-400	TM	5/18/2017	ES_Clive	006841867JJK
120647	120647-01	PCB Article Container	MILLERS FLUORINATED LUBRICANT SYSTEM SCRAP METAL, PPE	12/2/2016	C-752-A	1,271	S	C-400	RTM	6/1/2017	ES_Clive	006841869JJK
120647	120647-02	PCB Article Container	MILLERS FLUORINATED LUBRICANT SYSTEM SCRAP METAL, PPE	12/6/2016	C-752-A	1,074	S	C-400	RTM	6/1/2017	ES_Clive	006841869JJK
120647	120647-03	PCB Article Container	F-LISTED FLOOR PANS	2/13/2017	C-752-A	1,301	S	C-400	RTM	6/1/2017	ES_Clive	006841869JJK
120672	120672-01	PCB Article Container	PCB OIL FILLED CAPACITOR	2/16/2017	C-752-A	5	S	C-400	TM	6/29/2017	ES_Clive	006841884JJK
115919	115919-01	PCB Container	VENTILATION DUCT OIL AND WATER	10/29/2015	C-746-Q	219	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-02	PCB Container	VENTILATION DUCT OIL AND WATER	11/18/2015	C-746-Q	200	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-03	PCB Container	VENTILATION DUCT OIL AND WATER	11/18/2015	C-746-Q	222	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-04	PCB Container	VENTILATION DUCT OIL AND WATER	11/18/2015	C-746-Q	222	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-05	PCB Container	VENTILATION DUCT OIL AND WATER	11/18/2015	C-746-Q	210	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-06	PCB Container	VENTILATION DUCT OIL AND WATER	11/18/2015	C-746-Q	226	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-07	PCB Container	VENTILATION DUCT OIL AND WATER	11/18/2015	C-746-Q	219	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-08	PCB Container	VENTILATION DUCT OIL AND WATER	11/19/2015	C-746-Q	230	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-09	PCB Container	VENTILATION DUCT OIL AND WATER	11/30/2015	C-746-Q	214	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-10	PCB Container	VENTILATION DUCT OIL AND WATER	11/30/2015	C-746-Q	212	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-11	PCB Container	VENTILATION DUCT OIL AND WATER	11/30/2015	C-746-Q	209	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-12	PCB Container	VENTILATION DUCT OIL AND WATER	12/1/2015	C-746-Q	219	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-13	PCB Container	VENTILATION DUCT OIL AND WATER	12/15/2015	C-746-Q	215	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-14	PCB Container	VENTILATION DUCT OIL AND WATER	12/28/2015	C-746-Q	226	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-15	PCB Container	VENTILATION DUCT OIL AND WATER	12/28/2015	C-746-Q	235	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-16	PCB Container	VENTILATION DUCT OIL AND WATER	12/29/2015	C-746-Q	227	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-17	PCB Container	VENTILATION DUCT OIL AND WATER	12/29/2015	C-746-Q	234	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-18	PCB Container	VENTILATION DUCT OIL AND WATER	12/29/2015	C-746-Q	225	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK

Table D.4. PCB Waste Shipped for Disposal in 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kgs)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
115919	115919-19	PCB Container	VENTILATION DUCT OIL AND WATER	12/29/2015	C-746-Q	225	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-20	PCB Container	VENTILATION DUCT OIL AND WATER	12/29/2015	C-746-Q	212	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-21	PCB Container	VENTILATION DUCT OIL AND WATER	12/30/2015	C-746-Q	221	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-22	PCB Container	VENTILATION DUCT OIL AND WATER	12/30/2015	C-746-Q	213	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
115919	115919-23	PCB Container	VENTILATION DUCT OIL AND WATER	12/30/2015	C-746-Q	230	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
119802	119802-04	PCB Container	VENTILATION DUCT OIL AND WATER	7/7/2015	C-746-Q	223	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
119802	119802-05	PCB Container	VENTILATION DUCT OIL AND WATER	7/7/2015	C-746-Q	212	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
119802	119802-06	PCB Container	VENTILATION DUCT OIL AND WATER	7/9/2015	C-746-Q	215	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
119802	119802-07	PCB Container	VENTILATION DUCT OIL AND WATER	7/13/2015	C-746-Q	208	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
119802	119802-08	PCB Container	VENTILATION DUCT OIL AND WATER	7/29/2015	C-746-Q	215	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
119802	119802-09	PCB Container	VENTILATION DUCT OIL AND WATER	7/29/2015	C-746-Q	218	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
119802	119802-10	PCB Container	VENTILATION DUCT OIL AND WATER	7/30/2015	C-746-Q	210	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
119802	119802-11	PCB Container	VENTILATION DUCT OIL AND WATER	9/10/2015	C-746-Q	219	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
119802	119802-12	PCB Container	VENTILATION DUCT OIL AND WATER	10/29/2015	C-746-Q	221	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-01	PCB Container	VENTILATION DUCT OIL AND WATER	1/6/2016	C-746-Q	210	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-02	PCB Container	VENTILATION DUCT OIL AND WATER	1/6/2016	C-746-Q	219	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-03	PCB Container	VENTILATION DUCT OIL AND WATER	1/12/2016	C-746-Q	227	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-04	PCB Container	VENTILATION DUCT OIL AND WATER	1/12/2016	C-746-Q	218	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-05	PCB Container	VENTILATION DUCT OIL AND WATER	1/12/2016	C-746-Q	220	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-06	PCB Container	VENTILATION DUCT OIL AND WATER	1/21/2016	C-746-Q	214	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-07	PCB Container	VENTILATION DUCT OIL AND WATER	1/27/2016	C-746-Q	214	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-08	PCB Container	VENTILATION DUCT OIL AND WATER	1/27/2016	C-746-Q	214	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-09	PCB Container	VENTILATION DUCT OIL AND WATER	3/2/2016	C-746-Q	224	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-10	PCB Container	VENTILATION DUCT OIL AND WATER	3/10/2016	C-746-Q	222	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK

Table D.4. PCB Waste Shipped for Disposal in 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kgs)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
120306	120306-11	PCB Container	VENTILATION DUCT OIL AND WATER	3/10/2016	C-746-Q	217	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-12	PCB Container	VENTILATION DUCT OIL AND WATER	3/11/2016	C-746-Q	220	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-13	PCB Container	VENTILATION DUCT OIL AND WATER	3/11/2016	C-746-Q	225	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-14	PCB Container	VENTILATION DUCT OIL AND WATER	3/15/2016	C-746-Q	215	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-15	PCB Container	VENTILATION DUCT OIL AND WATER	3/17/2016	C-746-Q	219	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-16	PCB Container	VENTILATION DUCT OIL AND WATER	3/23/2016	C-746-Q	209	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-17	PCB Container	VENTILATION DUCT OIL AND WATER	3/31/2016	C-746-Q	208	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-18	PCB Container	VENTILATION DUCT OIL AND WATER	3/31/2016	C-746-Q	217	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-19	PCB Container	VENTILATION DUCT OIL AND WATER	3/31/2016	C-746-Q	191	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-20	PCB Container	VENTILATION DUCT OIL AND WATER	4/13/2016	C-746-Q	214	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-21	PCB Container	VENTILATION DUCT OIL AND WATER	5/4/2016	C-746-Q	209	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-22	PCB Container	VENTILATION DUCT OIL AND WATER	5/4/2016	C-746-Q	216	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-23	PCB Container	VENTILATION DUCT OIL AND WATER	5/11/2016	C-746-Q	207	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-24	PCB Container	VENTILATION DUCT OIL AND WATER	5/12/2016	C-746-Q	225	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-25	PCB Container	VENTILATION DUCT OIL AND WATER	5/17/2016	C-746-Q	209	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-26	PCB Container	VENTILATION DUCT OIL AND WATER	5/17/2016	C-746-Q	230	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-27	PCB Container	VENTILATION DUCT OIL AND WATER	5/17/2016	C-746-Q	238	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120306	120306-28	PCB Container	VENTILATION DUCT OIL AND WATER	6/1/2016	C-746-Q	220	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-29	PCB Container	VENTILATION DUCT OIL AND WATER	7/5/2016	C-746-Q	228	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-30	PCB Container	VENTILATION DUCT OIL AND WATER	7/5/2016	C-746-Q	213	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-31	PCB Container	VENTILATION DUCT OIL AND WATER	7/5/2016	C-746-Q	215	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-32	PCB Container	VENTILATION DUCT OIL AND WATER	7/5/2016	C-746-Q	209	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-33	PCB Container	VENTILATION DUCT OIL AND WATER	7/5/2016	C-746-Q	219	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120306	120306-34	PCB Container	VENTILATION DUCT OIL AND WATER	7/6/2016	C-746-Q	228	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK

Table D.4. PCB Waste Shipped for Disposal in 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kgs)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
120306	120306-35	PCB Container	VENTILATION DUCT OIL AND WATER	7/7/2016	C-746-Q	220	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120338	120338-03	PCB Container	DIELECTRIC FLUID DRAINED FROM THE 3PH3 AUXILLARY TRANSFORMER AT C-633 PUMP HOUSE	11/22/2017*	C-633	1,178	L	C-633	TM	10/12/2017	M&EC	006843002JJK
120338	120338-04	PCB Container	DIELECTRIC FLUID DRAINED FROM THE 3PH3 AUXILLARY TRANSFORMER AT C-633 PUMP HOUSE	11/22/2017*	C-633	1,199	L	C-633	TM	10/12/2017	M&EC	006843005JJK
120543	120543-01	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,178	L	C-633	TM	10/12/2017	M&EC	006843002JJK
120543	120543-03	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,191	L	C-633	TM	10/12/2017	M&EC	006843002JJK
120543	120543-07	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,234	L	C-633	TM	10/12/2017	M&EC	006843005JJK
120543	120543-08	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,247	L	C-633	TM	10/12/2017	M&EC	006843006JJK
120543	120543-10	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	849	L	C-633	TM	10/12/2017	M&EC	006843006JJK
120543	120543-15	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-637	1,196	L	C-637	TM	10/12/2017	M&EC	006843006JJK
120543	120543-26	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-637	1,266	L	C-637	TM	10/12/2017	M&EC	006843007JJK
120543	120543-29	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,276	L	C-633	TM	10/12/2017	M&EC	006843002JJK
120543	120543-30	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,267	L	C-633	TM	10/12/2017	M&EC	006843005JJK
120543	120543-31	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,215	L	C-633	TM	10/12/2017	M&EC	006843002JJK
120543	120543-32	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,244	L	C-633	TM	10/12/2017	M&EC	006843002JJK
120543	120543-33	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,268	L	C-633	TM	10/12/2017	M&EC	006843002JJK

Table D.4. PCB Waste Shipped for Disposal in 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kgs)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
120543	120543-34	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-637	384	L	C-637	TM	10/12/2017	M&EC	006843007JK
120543	120543-35	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,273	L	C-633	TM	10/12/2017	M&EC	006843002JK
120543	120543-36	PCB Container	DIELECTRIC FLUID FROM THE AUXILLARY TRANSFORMERS AT THE C-633, C-635, AND C-637 PUMPHOUSES	11/22/2017*	C-633	1,269	L	C-633	TM	10/12/2017	M&EC	006843007JK
120587	120587-01	PCB Container	VENTILATION DUCT OIL AND WATER	7/7/2016	C-746-Q	210	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-02	PCB Container	VENTILATION DUCT OIL AND WATER	7/7/2016	C-746-Q	213	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-03	PCB Container	VENTILATION DUCT OIL AND WATER	7/7/2016	C-746-Q	235	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-04	PCB Container	VENTILATION DUCT OIL AND WATER	7/11/2016	C-746-Q	204	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-05	PCB Container	VENTILATION DUCT OIL AND WATER	7/11/2016	C-746-Q	227	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-06	PCB Container	VENTILATION DUCT OIL AND WATER	7/13/2016	C-746-Q	229	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-07	PCB Container	VENTILATION DUCT OIL AND WATER	7/19/2016	C-746-Q	223	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JK
120587	120587-08	PCB Container	VENTILATION DUCT OIL AND WATER	7/28/2016	C-746-Q	228	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-09	PCB Container	VENTILATION DUCT OIL AND WATER	8/2/2016	C-746-Q	231	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-10	PCB Container	VENTILATION DUCT OIL AND WATER	8/9/2016	C-746-Q	226	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-11	PCB Container	VENTILATION DUCT OIL AND WATER	8/9/2016	C-746-Q	215	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-12	PCB Container	VENTILATION DUCT OIL AND WATER	8/9/2016	C-746-Q	223	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-13	PCB Container	VENTILATION DUCT OIL AND WATER	8/9/2016	C-746-Q	213	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-14	PCB Container	VENTILATION DUCT OIL AND WATER	8/9/2016	C-746-Q	214	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-15	PCB Container	VENTILATION DUCT OIL AND WATER	8/16/2016	C-746-Q	235	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-16	PCB Container	VENTILATION DUCT OIL AND WATER	8/17/2016	C-746-Q	229	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-17	PCB Container	VENTILATION DUCT OIL AND WATER	8/17/2016	C-746-Q	229	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-18	PCB Container	VENTILATION DUCT OIL AND WATER	8/17/2016	C-746-Q	223	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK
120587	120587-19	PCB Container	VENTILATION DUCT OIL AND WATER	8/17/2016	C-746-Q	225	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JK

Table D.4. PCB Waste Shipped for Disposal in 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kgs)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
120587	120587-20	PCB Container	VENTILATION DUCT OIL AND WATER	8/17/2016	C-746-Q	234	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120587	120587-21	PCB Container	VENTILATION DUCT OIL AND WATER	8/17/2016	C-746-Q	219	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120587	120587-22	PCB Container	VENTILATION DUCT OIL AND WATER	8/18/2016	C-746-Q	206	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120587	120587-23	PCB Container	VENTILATION DUCT OIL AND WATER	8/24/2016	C-746-Q	219	L	Proc Bldgs	TM	1/25/2017	DSSI	006841845JJK
120587	120587-24	PCB Container	VENTILATION DUCT OIL AND WATER	9/8/2016	C-746-Q	138	L	Proc Bldgs	TM	1/25/2017	DSSI	006841839JJK
120624	120624-01	PCB Container	HOLDUP, RESIDUE, RAGS FROM NICKEL STRIPPER EVAPORATION UNIT	5/8/2017	C-752-A	14	S	C-400	RTM	7/11/2017	M&EC	006841893JJK
120648	120648-01	PCB Container	WATER FROM LINES IN ZONE 2 (MFL) AREA	12/7/2016	C-752-A	15	L	C-400	RTM	7/11/2017	DSSI	006841890JJK
120903	120903-01	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	11/17/2016	C-337	206	L	C-337	TM	1/25/2017	DSSI	006841839JJK
120903	120903-02	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	11/30/2016	C-337	219	L	C-337	TM	1/25/2017	DSSI	006841839JJK
120903	120903-03	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	12/6/2016	C-337	207	L	C-337	TM	1/25/2017	DSSI	006841839JJK
120903	120903-04	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	12/6/2016	C-337	203	L	C-337	TM	1/25/2017	DSSI	006841839JJK
120903	120903-05	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	12/19/2016	C-746-Q	199	L	C-337	TM	1/25/2017	DSSI	006841845JJK
120903	120903-06	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	12/19/2016	C-746-Q	198	L	C-337	TM	1/25/2017	DSSI	006841845JJK
120903	120903-07	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	12/19/2016	C-746-Q	220	L	C-337	TM	1/25/2017	DSSI	006841845JJK
120903	120903-08	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	12/28/2016	C-746-Q	215	L	C-337	TM	1/25/2017	DSSI	006841845JJK
120903	120903-09	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	1/4/2017	C-746-Q	208	L	C-337	TM	6/22/2017	DSSI	006841878JJK
120903	120903-10	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	1/25/2017	C-746-Q	216	L	C-337	TM	6/22/2017	DSSI	006841878JJK
120903	120903-11	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	3/8/2017	C-746-Q	195	L	C-337	TM	6/22/2017	DSSI	006841878JJK
120903	120903-12	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-337	4/17/2017	C-746-Q	161	L	C-337	TM	6/22/2017	DSSI	006841878JJK
120905	120905-01	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-335	11/30/2016	C-746-Q	200	L	C-335	TM	1/25/2017	DSSI	006841839JJK
120905	120905-02	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-335	12/20/2016	C-746-Q	146	L	C-335	TM	1/25/2017	DSSI	006841845JJK
120905	120905-03	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-335	1/18/2017	C-746-Q	156	L	C-335	TM	6/22/2017	DSSI	006841878JJK
120907	120907-01	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-333	11/30/2016	C-746-Q	130	L	C-333	TM	1/25/2017	DSSI	006841845JJK
120907	120907-02	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-333	1/18/2017	C-746-Q	118	L	C-333	TM	6/22/2017	DSSI	006841878JJK

Table D.4. PCB Waste Shipped for Disposal in 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kgs)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
120909	120909-01	PCB Container	VENTILATION DUCT OIL AND WATER FROM C-331	11/30/2016	C-746-Q	58	L	C-331	TM	6/22/2017	DSSI	006841878JJK
120920	120920-01	PCB Container	VENTILATION DUCT OIL	11/16/2016	C-746-Q	7	L	C-333	TM	6/22/2017	DSSI	006841878JJK

TOTAL PCB WASTE SHIPPED FOR DISPOSAL IN CY 2017: 51,719

*PCB Date denotes the date the TSDF notified project of confirmed PCB results

DSSI = Diversified Scientific Services, Inc., Kingston, TN

ES_Clive = EnergySolutions, Clive, UT

L = Liquid

M&EC = M&EC Waste Treatment Facility, Oak Ridge, TN

RTM = RCRA-TSCA Mixed (i.e., RCRA and PCB/radioactive)

S = Solid

TM = TSCA Mixed (i.e., PCB/radioactive)

Table D.5. PCB Waste Inventory as of December 31, 2017

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	S	15,649	C-337	C-337	TM
107839	107839-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	17,146	C-337	C-337	TM
121053	121053-01	PCB Article Container	PCB BALLASTS, CAPACITORS AND SMALL TRANSFORMERS (COLLECTION)	3/21/2017	S	49	C-752-A	Various	TM
121084	121084-01	PCB Article Container	PCB BALLASTS/TRANSFORMERS/CAPACITORS	4/25/2017	S	237	C-752-A	Various	TM
121208	121208-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	7/10/2017	S	164	C-752-A	C-757	TM
121272	121272-01	PCB Article Container	POTHEAD AND PLC CABLE	9/12/2017	S	818	C-752-A	Various	RTM
121277	121277-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	10/4/2017	S	91	C-752-A	Various	TM
125104	125104-01	PCB Article Container	LIGHT BALLASTS	5/1/2017	S	1,725	C-752-A	C-400	TM
125105	125105-01	PCB Article Container	PCB BALLASTS (LEAKING)	5/3/2017	S	200	C-752-A	C-400	TM
125105	125105-02	PCB Article Container	PCB BALLASTS (LEAKING)	5/3/2017	S	242	C-752-A	C-400	TM
125105	125105-03	PCB Article Container	PCB BALLASTS (LEAKING)	5/15/2017	S	118	C-752-A	C-400	TM
125127	125127-01	PCB Article Container	CAPACITORS/BALLASTS	6/26/2017	S	119	C-752-A	C-400	TM
119845	119845-59	PCB Container	PCB ABSORBENTS	4/22/2016	S	35	C-752-A	C-337	TM
119845	119845-60	PCB Container	PCB ABSORBENTS	10/3/2016	S	43	C-752-A	C-337	TM
119863	119863-01	PCB Container	PCB CONTAMINATED METAL	6/3/2015	S	155	C-752-A	C-337	TM
119874	119874-05	PCB Container	PCB ABSORBENTS	10/6/2015	S	113	C-752-A	C-337	TM

Table D.5. PCB Waste Inventory as of December 31, 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kgs)	Current Facility	Source	Waste Category
119874	119874-06	PCB Container	PCB ABSORBENTS	9/17/2015	S	113	C-752-A	C-337	TM
119874	119874-07	PCB Container	PCB ABSORBENTS	12/16/2015	S	59	C-752-A	C-337	TM
119874	119874-08	PCB Container	PCB ABSORBENTS	12/17/2015	S	82	C-752-A	C-337	TM
119874	119874-09	PCB Container	PCB ABSORBENTS	1/22/2016	S	80	C-752-A	C-337	TM
119874	119874-10	PCB Container	PCB ABSORBENTS	1/29/2016	S	58	C-752-A	C-337	TM
119874	119874-11	PCB Container	PCB ABSORBENTS	4/8/2016	S	41	C-752-A	C-337	TM
119874	119874-12	PCB Container	PCB ABSORBENTS	10/17/2016	S	31	C-752-A	C-337	TM
119881	119881-01	PCB Container	PCB ABSORBENTS	9/3/2015	S	39	C-752-A	C-333	TM
120906	120906-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-335	10/18/2016	S	34	C-752-A	C-335	TM
121072	121072-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	5/11/2017	S	48	C-752-A	C-331	TM
121073	121073-01	PCB Container	VENTILATION DUCT OIL AND WATER C-331	4/25/2017	L	108	C-752-A	C-331	TM
121074	121074-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	5/15/2017	S	47	C-752-A	C-333	TM
121075	121075-01	PCB Container	PCB VENTILATION DUCT OIL AND WATER	4/25/2017	L	196	C-752-A	C-333	TM
121076	121076-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	4/26/2017	S	132	C-752-A	C-335	TM
121076	121076-02	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	10/19/2017	S	37	C-752-A	C-335	TM
121077	121077-01	PCB Container	VENTILATION DUCT OIL AND WATER	4/26/2017	L	205	C-746-Q	C-335	TM
121077	121077-02	PCB Container	VENTILATION DUCT OIL AND WATER	5/1/2017	L	216	C-746-Q	C-335	TM
121077	121077-03	PCB Container	VENTILATION DUCT OIL AND WATER	5/1/2017	L	210	C-746-Q	C-335	TM
121077	121077-04	PCB Container	VENTILATION DUCT OIL AND WATER	5/1/2017	L	207	C-746-Q	C-335	TM
121077	121077-05	PCB Container	VENTILATION DUCT OIL AND WATER	5/4/2017	L	219	C-746-Q	C-335	TM
121077	121077-06	PCB Container	VENTILATION DUCT OIL AND WATER	5/9/2017	L	198	C-752-ARPK	C-335	TM
121078	121078-01	PCB Container	VENT DUCT SOLIDS	4/25/2017	S	52	C-752-A	C-337	TM
121078	121078-02	PCB Container	PCB SPILL CLEANUP DEBRIS	10/9/2017	S	41	C-752-A	C-337	TM
121078	121078-03	PCB Container	SPILL CLEANUP DEBRIS	10/12/2017	S	42	C-752-A	C-337	TM
121078	121078-04	PCB Container	SPILL CLEANUP DEBRIS	11/29/2017	S	24	C-752-A	C-337	TM
121079	121079-01	PCB Container	PCB VENTILATION DUCT OIL AND WATER	4/25/2017	L	211	C-746-Q	C-337	TM

Table D.5. PCB Waste Inventory as of December 31, 2017 (Continued)

RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kgs)	Current Facility	Source	Waste Category
121079	121079-02	PCB Container	PCB VENTILATION DUCT OIL AND WATER	4/27/2017	L	218	C-746-Q	C-337	TM
121079	121079-03	PCB Container	PCB VENTILATION DUCT OIL AND WATER	7/12/2017	L	169	C-752-A	C-337	TM
121079	121079-04	PCB Container	PCB VENTILATION DUCT OIL AND WATER	5/9/2017	L	32	C-752-A	C-337	TM
121161	121161-01	PCB Container	VENT DUCT SOLIDS	3/11/2016	S	48	C-752-A	Proc Bldgs	TM
121255	121255-01	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING, POST-TSCA RINSE.	8/23/2017	L	224	C-746-Q	C-337	TM
125118	125118-01	PCB Container	SAMPLE RETURNS FROM C-400	6/6/2017	S	7	C-752-A	C-400	RTM
125150	125150-01	PCB Container	PCB OIL FROM C-400 ZONE, 16 J-BOX	9/19/2017	L	144	C-752-A	C-400	TM
125150	125150-02	PCB Container	PCB OIL FROM C-400 ZONE 16, J-BOX	9/20/2017	L	142	C-752-A	C-400	TM
125151	125151-01	PCB Container	PCB CONTAMINATED PPE, ETC C-400, ZONE 16, J-BOX OIL DRAINING	9/20/2017	S	29	C-752-A	C-400	TM

TOTAL PCB WASTE INVENTORY AS OF DECEMBER 31, 2017: 40,645

*Collection containers not weighed by December 31, 2017.

L = Liquid

RTM = RCRA-TSCA Mixed (i.e., RCRA and PCB/radioactive)

S = Solid

TM = TSCA Mixed (i.e., PCB/radioactive)