

**Annual Compliance Agreement Report for the
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky,
January 1 through December 31, 2017**



This document is approved for public release per review by:

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FRNP Classification Support

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Date

**Annual Compliance Agreement Report for the
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky,
January 1 through 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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PREFACE

The U.S. Department of Energy (DOE) and the U.S. Environmental Protection Agency (EPA) entered into the Toxic Substances Control Act (TSCA) Compliance Agreement (CA) to address TSCA compliance at the Paducah, Portsmouth, and Oak Ridge uranium enrichment (UE) facilities. This agreement, signed on February 20, 1992, was intended to bring DOE's UE facilities into full compliance with the TSCA regulations for the management of polychlorinated biphenyls (PCBs). This agreement was modified on September 25, 1997, and modified again on May 30, 2017. At Paducah, the TSCA CA addresses the following:

- Troughing of ventilation duct gaskets;
- Investigation of historic PCB disposal sites;
- Use and removal of leaking potential PCB devices;
- Sampling of air;
- Process lubrication oil;
- Process lubrication oil removal;
- Spill cleanup;
- Storage of PCB waste;
- Building demolition wastes;
- PCB-contaminated slabs;
- Processing of PCB-contaminated demolition material;
- Non-radioactive PCBs and PCB Item storage and disposal;
- Co-contaminated, radioactive PCBs and PCB Items storage and disposal;
- Ensurance of worker safety measures; and
- Hydraulic systems at Paducah Gaseous Diffusion Plant.

This Annual CA Report implements changes per the May 30, 2017, TSCA CA modification agreement and summarizes TSCA CA activities that occurred at Paducah from January 1 through December 31, 2017.

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ACRONYMS

| | |
|------------|-------------------------------------------|
| CA | Compliance Agreement |
| <i>CFR</i> | <i>Code of Federal Regulations</i> |
| CY | calendar year |
| DOE | U.S. Department of Energy |
| EPA | U.S. Environmental Protection Agency |
| PGDP | Paducah Gaseous Diffusion Plant |
| PPE | personal protective equipment |
| TSCA | Toxic Substances Control Act |
| TSDF | treatment, storage, and disposal facility |
| UE | Uranium Enrichment |

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EXECUTIVE SUMMARY

This Annual Compliance Agreement (CA) Report summarizes the Toxic Substances Control Act (TSCA) CA activities that occurred at Paducah from January 1 through December 31, 2017.

During calendar year 2017, Paducah continued to address the ongoing elements identified in the TSCA CA as required by the modified agreement.

The TSCA CA requires the Paducah facility to conduct the interim measure of performing annual air sampling as required by Attachment 1, Section 1 (D), Air Sampling.

The TSCA CA modification signed on May 30, 2017, requires annual PCB air sampling. This modification removed the quarterly sampling requirement. As a result, no PCB air sampling event took place during the fourth quarter of 2017. Air sampling was conducted during each of the first two quarters of 2017 and the annual air sampling event took place during July in accordance with the TSCA CA Attachment I, Section 1, Interim Measures, (D) Air Sampling. Results for the first two quarters of 2017 and the annual event did not exceed the TSCA CA reporting level of 0.5 $\mu\text{g}/\text{m}^3$.

The TSCA CA also includes the following open compliance measures:

- Section 2 (C)—Spill Cleanup
- Section 2 (D)—Storage for Disposal
- Section 2 (E-1)—Building Demolition Wastes
- Section 2 (E-2)—PCB-contaminated Slabs
- Section 2 (E-3)—Processing for the On-Site Waste Disposal Facility
- Section 2 (F)—Other Wastes
 - Non-radioactive PCBs and PCB Items
 - Co-contaminated; and radioactive PCBs and PCB Items.

Seven PCB gasket spills and one non-gasket spill were cleaned and closed in accordance with the standards set forth in the TSCA CA Attachment I, Section 2, Compliance Measures, (C) Spill Cleanup.

Paducah shipped for disposal a net weight of approximately 40,984 kg of TSCA-regulated PCB/radioactive waste on 12 Uniform Hazardous Waste Manifests. Four of the manifests were generated from non-U. S. Department of Transportation-regulated wastes that were shipped on October 12, 2017. Upon testing, the treatment, storage, and disposal facility determined the waste was PCB on November 22, 2017. Nine Certificates of Disposal were received in 2017.

INTEGRATED SCHEDULE SUMMARY

In accordance with paragraph 36 of the TSCA CA an annual update on the status of each item on the Integrated Schedule is provided. The Integrated Schedule for fiscal year (FY) 2017 included four ongoing activities, and six activities are scheduled to begin work in the future.

Section 1 (D), Air Sampling, is an ongoing effort and work scheduled for calendar year (CY) 2017 was completed.

Section 2 (C), Spill Cleanups, is the second ongoing effort and work scheduled for CY 2017 was completed.

Section 2 (E-1), Building Demolition Waste, is an ongoing effort, but during CY 2017 there were no scheduled activities related to this item.

Section 2 (E-2), PCB-contaminated slab management/demolition, is the fourth ongoing effort on the Paducah Site. Currently, there are two PCB-contaminated slabs managed on-site; scheduled activities regarding these slabs were completed for CY 2017.

The following six activities also are included in the Integrated Schedule.

- (1) No decision has been made for Paducah regarding the On-Site Waste Disposal Facility; therefore, there were no scheduled activities related to the design phase of the potential On-Site Waste Disposal Facility. Currently, work associated with this schedule item is scheduled beyond fiscal year (FY) 2020.
- (2) No decision has been made for Paducah regarding the On-Site Waste Disposal Facility; therefore, there were no scheduled activities related to the construction phase for the first cell of the potential On-Site Waste Disposal Facility during CY 2017. Currently, work associated with this item is scheduled beyond FY 2020.
- (3) The waste staging and processing/resizing operations have not been determined to be necessary for Paducah; therefore, there were no scheduled activities related to the design phase during the CY 2017. Currently, work associated with this item is scheduled beyond FY 2020.
- (4) The waste staging and processing/resizing operations have not been determined to be necessary for Paducah; therefore, there were no scheduled activities related to the construction phase during the CY 2017. Currently, work associated with this item is scheduled beyond FY 2020.
- (5) None of the buildings listed in paragraph 11 of the TSCA CA had any demolition activities associated with them during CY 2017. The C-400 Complex demolition is slated to start in November 2018. Currently, work associated with other buildings related to this schedule item is scheduled beyond FY 2020.
- (6) During CY 2017, no PCB-contaminated slab demolition was scheduled. Currently, work associated with this item is scheduled beyond FY 2020.

1. INTERIM MEASURES

1.1 AIR SAMPLING

Both the original Uranium Enrichment (UE) Toxic Substances Control Act (TSCA) Compliance Agreement (CA) and the TSCA CA modification signed on May 30, 2017, require polychlorinated biphenyl (PCB) air sampling to be conducted in process buildings with motor exhaust duct ventilation systems. These buildings include the C-331, C-333, C-335, and C-337 process buildings at the Paducah facility.

The original UE TSCA CA mandated that at least five samples were to be taken per building per year. At least one of the five samples would be taken at a best engineering judgment (BEJ)-selected site, with the remainder of the sites to be selected randomly. For each of the buildings, the samples were to be taken quarterly every calendar year (CY), at least 30 days apart. The results of the samples taken during the first two quarters of CY 2017 are shown in Table 1.

The TSCA CA modification signed on May 30, 2017, requires two samples per process building to be taken once annually anytime during the months of June, July, and August. For each annual air monitoring activity in a building, there will be a BEJ-selected site and a randomly selected site. The results for the 2017 PCB air sampling event are shown in Table 2.

The U.S. Department of Energy (DOE) is required to report to the U.S. Environmental Protection Agency (EPA) any PCB concentrations greater than $0.5 \mu\text{g}/\text{m}^3$ measured from any air monitoring sampler at any location.

The sampling was conducted as described in National Institute for Occupational Safety and Health 5503. The volumes and flow rates, as noted, were necessary to achieve the detection limit required by the UE TSCA CA and the modified TSCA CA. All samples results were below laboratory reporting limits of $0.1 \mu\text{g}/\text{m}^3$.

2. COMPLIANCE MEASURES

2.1 SPILL CLEANUP

The TSCA CA requires that PCB spills and PCB-contaminated oil that may leak onto building floors be cleaned in accordance with the EPA PCB Spill Cleanup Policy in 40 CFR § 761, Subpart G. Reports documenting PCB spills and PCB spill cleanup measures are required to be prepared each quarter and summarized in this Annual Compliance Agreement Report. Record copies of cleanup documentation are kept on-site and are available for inspection.

The TSCA CA allows historic spills, those that occurred before March 19, 1992, to be left in place until demolition of the facility. PCB high-concentration gasket spills (i.e., from a source of 500 parts per million or greater in PCB concentration) that occurred to building floors after March 19, 1992, shall be verified closed in accordance with the requirements of the TSCA CA.

Table 1. PCB Air Results 1st and 2nd Quarter CY 2017

| | Sample Numbers | Sample Date | Building | Floor | Sample Location | Method of Selection | Results* ($\mu\text{g}/\text{m}^3$) | Pump Flow Rate (liters/minute) | Air Volume Sampled (liters) |
|-----------|-----------------|-------------|----------|--------|-----------------|---------------------|------------------------------------------|-----------------------------------|--------------------------------|
| Quarter 1 | PCB17-AIR-02-01 | 1/25/2017 | C-331 | GROUND | N of P-13 | RANDOM | 0.020 | 1.05 | 524 |
| | PCB17-AIR-02-02 | 1/25/2017 | C-331 | GROUND | At BB-25 | BEJ | 0.020 | 1.08 | 514 |
| | PCB17-AIR-02-03 | 1/25/2017 | C-333 | GROUND | N of S-19 | RANDOM | 0.020 | 1.04 | 502 |
| | PCB17-AIR-02-04 | 1/25/2017 | C-335 | GROUND | E of L-26 | RANDOM | 0.020 | 1.03 | 541 |
| | PCB17-AIR-02-05 | 1/25/2017 | C-337 | GROUND | E of Ua-03 | RANDOM | 0.020 | 1.04 | 516 |
| Quarter 2 | PCB17-AIR-03-01 | 4/12/2017 | C-331 | CELL | W of N-13 | RANDOM | 0.020 | 1.05 | 535 |
| | PCB17-AIR-03-02 | 4/12/2017 | C-333 | CELL | NE of P-38 | RANDOM | 0.020 | 1.05 | 536 |
| | PCB17-AIR-03-03 | 4/12/2017 | C-333 | GROUND | At P-12 | BEJ | 0.020 | 1.03 | 525 |
| | PCB17-AIR-03-04 | 4/12/2017 | C-335 | CELL | E of K-17 | RANDOM | 0.020 | 1.05 | 572 |
| | PCB17-AIR-03-05 | 4/12/2017 | C-337 | CELL | SE of Z-40 | RANDOM | 0.020 | 1.01 | 505 |

*Reported results are calculated. PCBs not detected above laboratory reporting limits.

Table 2. PCB Air Results Annual CY 2017

| Sample Numbers | Sample Date | Building | Floor | Sample Location | Method of Selection | Results* ($\mu\text{g}/\text{m}^3$) | Pump Flow Rate (liters/minute) | Air Volume Sampled (liters) |
|-----------------|-------------|----------|--------|-----------------|---------------------|------------------------------------------|-----------------------------------|--------------------------------|
| PCB17-AIR-04-01 | 7/19/2017 | C-331 | GROUND | E of J-30 | RANDOM | 0.020 | 1.06 | 526 |
| PCB17-AIR-04-02 | 7/19/2017 | C-331 | GROUND | E of F-29 | BEJ | 0.020 | 1.06 | 536 |
| PCB17-AIR-04-03 | 7/19/2017 | C-333 | CELL | NE of H-46 | RANDOM | 0.020 | 1.04 | 519 |
| PCB17-AIR-04-04 | 7/19/2017 | C-333 | CELL | NW of H-18 | BEJ | 0.020 | 1.07 | 534 |
| PCB17-AIR-04-05 | 7/19/2017 | C-335 | GROUND | N of CC-28 | RANDOM | 0.020 | 1.02 | 512 |
| PCB17-AIR-04-06 | 7/19/2017 | C-335 | CELL | NW of FF-12 | BEJ | 0.020 | 1.06 | 530 |
| PCB17-AIR-04-07 | 7/19/2017 | C-337 | GROUND | S of Wa-32 | RANDOM | 0.020 | 1.04 | 522 |
| PCB17-AIR-04-08 | 7/19/2017 | C-337 | GROUND | At Gb-6 | BEJ | 0.020 | 1.03 | 513 |

*Reported results are calculated. PCBs not detected above laboratory reporting limits.

The following is a summary of PCB gasket spill activities for CY 2017:

- Remaining PCB gasket spill sites awaiting verification of successful cleaning as of December 31, 2016—11
- Number of new PCB gasket spill sites identified during reporting period—8
- Number of PCB gasket spill sites closed during reporting period—7
- Remaining PCB gasket spill sites awaiting verification of successful cleaning as of December 31, 2017—12
- Number of PCB gasket spill sites closed as a historic spill—0

A quarterly breakdown of PCB gasket spill information can be found in Figure 1.

The following is a summary of PCB non-gasket spill activities for CY 2017:

- Remaining PCB non-gasket spill sites awaiting verification of successful cleaning as of December 31, 2016—24
- Number of new PCB non-gasket spill sites identified during reporting period—0
- Number of PCB non-gasket spill sites closed during reporting period—1
- Remaining PCB non-gasket spill sites awaiting verification of successful cleaning as of December 31, 2017—23
- Number of PCB non-gasket spill sites closed as a historic spill—0

A quarterly breakdown of PCB non-gasket spill information can be found in Figure 2.

All PCB gasket and non-gasket spills identified were high concentration PCB spills (i.e., from a source of 500 ppm or greater in PCB concentration). Cleanup of each identified spill site was initiated within 24 hours, in accordance with the TSCA CA. Clearly visible signs have been posted at each spill site advising personnel to avoid the area in order to minimize the spread of contamination and the potential for human exposure. The cleanup documentation and the records are available for inspection.

2.2 BUILDING DEMOLITION

2.2.1 Building Demolition Wastes

The TSCA CA requires building demolition wastes comprised of PCBs or PCB Items (as defined in 40 CFR § 761.3) to be managed and disposed of as directed in 40 CFR § 761.50. In particular, building demolition wastes comprised of PCB-contaminated ventilation ducts, gaskets or flanges, PCB-contaminated piping, or other PCB-contaminated materials containing PCBs as a result of a spill, release, or other unauthorized disposal shall be managed and disposed of as PCB remediation waste in accordance with 40 CFR § 761.61. During the CY 2017, no building demolition wastes containing PCB wastes, PCB items, or PCB remediation wastes were generated.

PCB Gasket Spills
January 1 through December 31, 2017

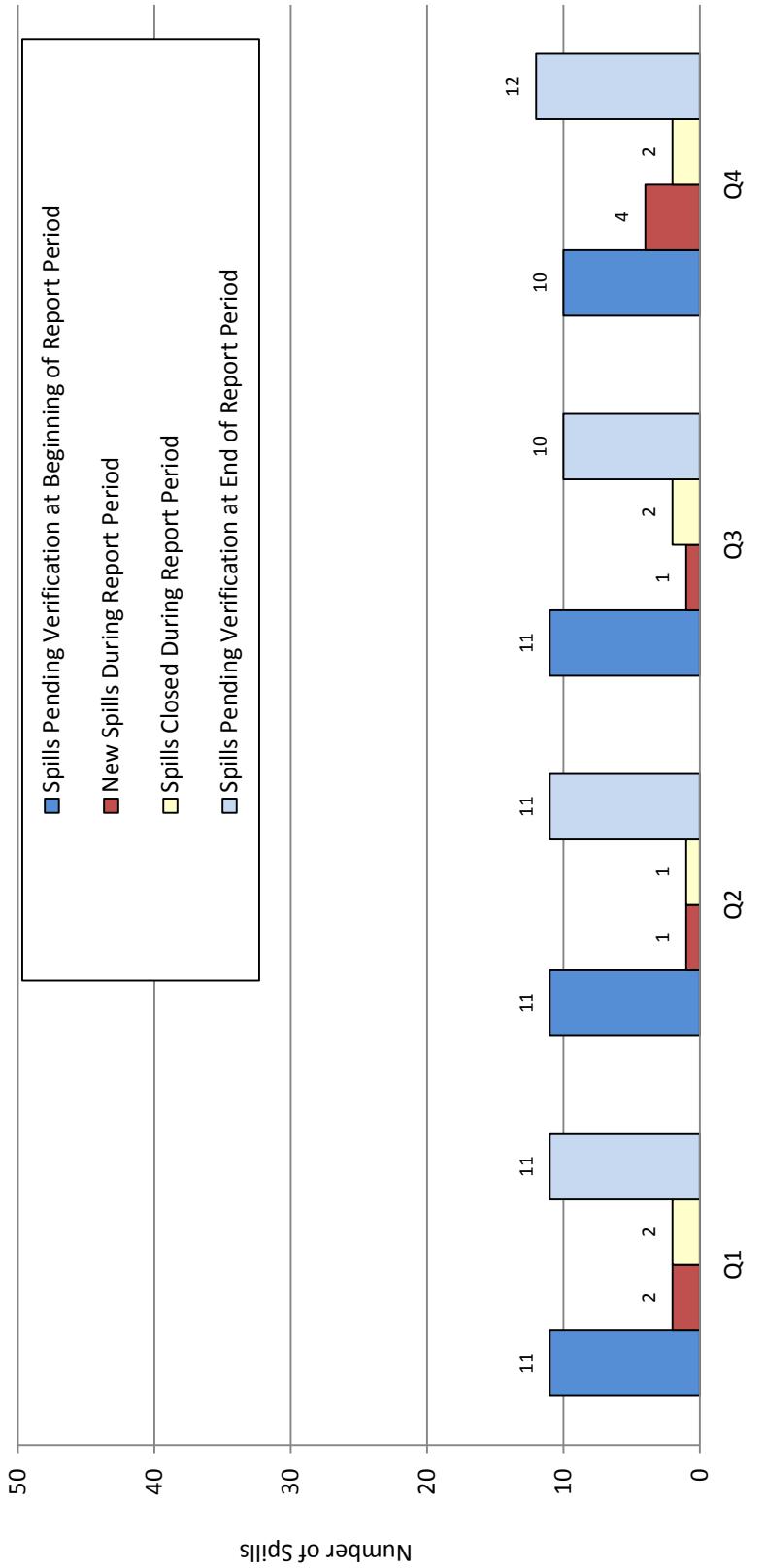


Figure 1. Quarterly Summary of PCB Gasket Spills

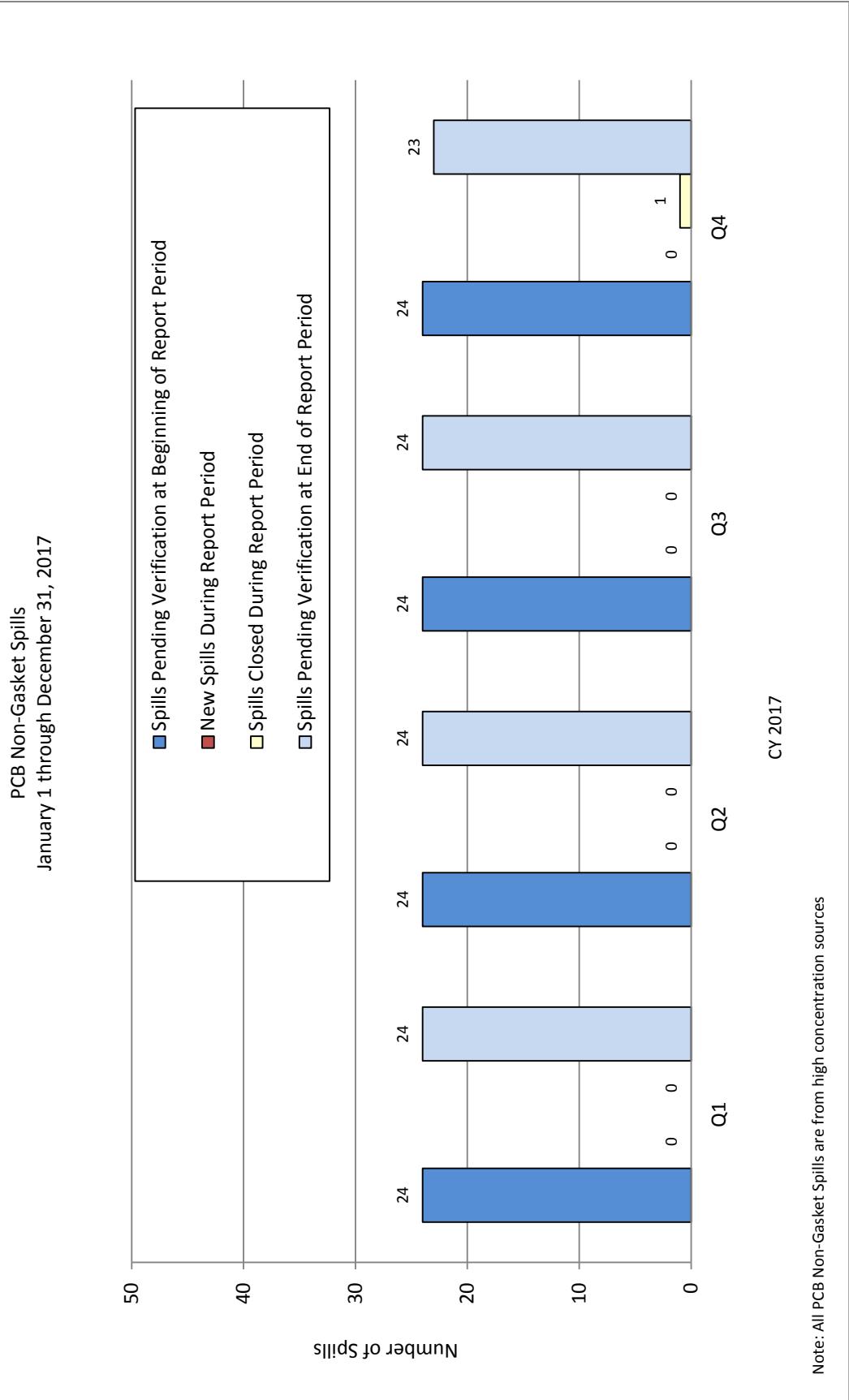


Figure 2. Quarterly Summary of PCB Non-Gasket Spills

2.2.2 PCB-Contaminated Slabs

The TSCA CA requires PCB-contaminated slabs from buildings listed in paragraph 11 of the agreement shall be maintained according to the requirements of 40 CFR § 761.30, except that historical spills as defined in Section 2 (C) shall be maintained in accordance with Section 2 (C). The previous demolition of the buildings associated with C-340-A Powder Building, C-340-B Metals Building, C-340-C Slag Building, C-410 Feed Plant, C-410-A Hydrogen Holder (Slab Only), C-410-C HF Neutralization Building, C-410-F HF Storage Building (North), C-410-G HF Storage Building (Center), C-410-H HF Storage (South), C-410-I Ash Receiver Shelter, C-410-J HF Storage Building (East), C-411 Cell Maintenance Building and C-420 Green Salt Building did result in PCB-contaminated slabs. The slabs were double washed and rinsed; and two contrasting colors of epoxy fixative were applied. The documentation of these actions can be found in the documents DOE/LX/07-1286&D1, *Removal Action Report for the C-340 Metals Reduction Plant at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, for C-340 and DOE/LX/07-2182&D1, *Removal Action Report for the C-410 Complex Infrastructure Decontamination and Decommissioning Project at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, for the C-410 complex. No discharges or releases of PCB-contaminated material were detected or reported for the associated slabs for CY 2017.

2.2.3 Processing of PCB-Contaminated Demolition Material for On-Site Waste Disposal

The TSCA CA requires the processing of any PCB-contaminated demolition material before disposal in the On-Site Waste Disposal Facility must be in compliance with 40 CFR § 761.20(c). The requirements of this section are not applicable at this time because the On-Site Waste Disposal Facility has not been constructed.

2.3 OTHER WASTES

2.3.1 Non-radioactive PCBs and PCB Items

The TSCA CA requires an annual progress update on the storage and disposal of non-radioactive PCBs and PCB items. At Paducah, PCB waste generated on-site is assumed to contain a radioactive component. During the CY 2017 the Paducah site generated zero non-radioactive PCBs or PCB Items. During the CY 2017 the Paducah site had zero non-radioactive PCBs or PCB Items in storage. During the CY 2017 the Paducah site had zero non-radioactive PCB or PCB Item shipments.

2.3.2 Co-contaminated, Radioactive PCBs and PCB Items

The TSCA CA requires an annual progress update on the storage and disposal of co-contaminated, radioactive PCB and PCB Items. At Paducah, all PCB waste generated on-site is assumed to contain a radioactive component. Pending radiological characterization for disposal, Paducah radiological PCB waste is stored in accordance with the requirements of the TSCA CA, Attachment I, Section 2(D), "Storage," 40 CFR § 761.65, "Storage for disposal," and associated concurrences. The inventory, as of December 31, 2017, of radiologically contaminated PCBs and PCB items is reflected in Table 3. Radioactive PCBs and PCB items stored in TSCA-compliant storage areas may be stored for more than one year prior to disposal pursuant to 40 CFR § 761.65(a)(1). Sixteen radioactive PCB waste items did exceed the one-year storage limitation. A summation of the records documenting the efforts to secure disposal of these items can be found in the Appendix.

Table 3. PCB Waste Inventory as of December 31, 2017

| Waste ID | Description | Earliest Date Removed from Service | Gross Wt (lb) | Gross Wt (kg) | Net Wt (lb) | Net Wt (kg) | Gross Vol (ft ³) | Current Facility | Source | Waste Cat |
|-----------|------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------|---------------|-------------|-------------|------------------------------|------------------|---------|-----------------|
| 106744-01 | DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGE AT C-337 U2C3 "B" LOCATION. | 11/7/2005 | Solid (S) | 34500 | 15,649 | 34,500 | 15,649 | 2,304.0 | C-337 | TSCA Mixed (TM) |
| 107839-01 | DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION. | 6/27/2004 | \$ | 37800 | 17,146 | 37,800 | 17,146 | 462.0 | C-337 | C-337 TM |
| 119845-59 | PCB ABSORBENTS | 4/22/2016 | \$ | 78 | 35 | 22 | 10 | 7.4 | C-752-A | C-337 TM |
| 119845-60 | PCB ABSORBENTS | 10/3/2016 | \$ | 95 | 43 | 39 | 18 | 7.4 | C-752-A | C-337 TM |
| 119863-01 | PCB CONTAMINATED METAL | 6/3/2015 | \$ | 341 | 155 | 285 | 129 | 7.4 | C-752-A | C-337 TM |
| 119874-05 | PCB ABSORBENTS | 10/6/2015 | \$ | 249 | 113 | 183 | 83 | 7.4 | C-752-A | C-337 TM |
| 119874-06 | PCB ABSORBENTS | 9/17/2015 | \$ | 249 | 113 | 193 | 88 | 7.4 | C-752-A | C-337 TM |
| 119874-07 | PCB ABSORBENTS | 12/16/2015 | \$ | 129 | 59 | 73 | 33 | 7.4 | C-752-A | C-337 TM |
| 119874-08 | PCB ABSORBENTS | 12/17/2015 | \$ | 180 | 82 | 124 | 56 | 7.4 | C-752-A | C-337 TM |
| 119874-09 | PCB ABSORBENTS | 1/22/2016 | \$ | 177 | 80 | 121 | 55 | 7.4 | C-752-A | C-337 TM |
| 119874-10 | PCB ABSORBENTS | 1/29/2016 | \$ | 128 | 58 | 72 | 33 | 7.4 | C-752-A | C-337 TM |
| 119874-11 | PCB ABSORBENTS | 4/8/2016 | \$ | 90 | 41 | 34 | 15 | 7.4 | C-752-A | C-337 TM |
| 119874-12 | PCB ABSORBENTS | 10/17/2016 | \$ | 68 | 31 | 12 | 5 | 7.4 | C-752-A | C-337 TM |
| 119881-01 | PCB ABSORBENTS | 9/3/2015 | \$ | 86 | 39 | 30 | 14 | 7.4 | C-752-A | C-333 TM |
| 120906-01 | SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-335 | 10/18/2016 | \$ | 74 | 34 | 18 | 8 | 7.4 | C-752-A | C-335 TM |
| 121053-01 | PCB BALLASTS, CAPACITORS AND SMALL TRANSFORMERS (COLLECTION) | 3/21/2017 | \$ | 107 | 49 | 51 | 23 | 7.4 | C-752-A | Various TM |
| 121072-01 | SPILL CLEANUP FROM VENT DUCT TROUGHS | 5/11/2017 | \$ | 106.4 | 48 | 53 | 24 | 7.0 | C-752-A | C-331 TM |

Table 3. PCB Waste Inventory as of December 31, 2017 (Continued)

| Waste ID | Description | Earliest Date Removed from Service | Gross Wt (lb) | Gross Wt (kg) | Net Wt (lb) | Net Wt (kg) | Gross Vol (ft ³) | Current Facility | Source | Waste Cat |
|-----------|----------------------------------------------------------------------------------------------|------------------------------------|---------------|---------------|-------------|-------------|------------------------------|------------------|---------|------------------|
| 121073-01 | VENTILATION DUCT OIL AND WATER C-331 | 4/25/2017 | Liquid (L) | 238.5 | 108 | 197 | 89 | 5.6 | C-752-A | C-331 TM |
| 121074-01 | SPILL CLEANUP FROM VENT DUCT TROUGHS | 5/15/2017 | S | 104 | 47 | 59 | 27 | 5.9 | C-752-A | C-333 TM |
| 121075-01 | PCB VENTILATION DUCT OIL AND WATER | 4/25/2017 | L | 432 | 196 | 376 | 171 | 7.4 | C-752-A | C-333 TM |
| 121076-01 | SPILL CLEANUP FROM VENT DUCT TROUGHS | 4/26/2017 | S | 290 | 132 | 234 | 106 | 7.4 | C-752-A | C-335 TM |
| 121076-02 | SPILL CLEANUP FROM VENT DUCT TROUGHS | 10/19/2017 | S | 81.6 | 37 | 34 | 15 | 6.3 | C-752-A | C-335 TM |
| 121077-01 | VENTILATION DUCT OIL AND WATER | 4/26/2017 | L | 453 | 205 | 397 | 180 | 7.4 | C-746-Q | C-335 TM |
| 121077-02 | VENTILATION DUCT OIL AND WATER | 5/1/2017 | L | 476 | 216 | 420 | 191 | 7.4 | C-746-Q | C-335 TM |
| 121077-03 | VENTILATION DUCT OIL AND WATER | 5/1/2017 | L | 463 | 210 | 407 | 185 | 7.4 | C-746-Q | C-335 TM |
| 121077-04 | VENTILATION DUCT OIL AND WATER | 5/1/2017 | L | 456 | 207 | 400 | 181 | 7.4 | C-746-Q | C-335 TM |
| 121077-05 | VENTILATION DUCT OIL AND WATER | 5/4/2017 | L | 482 | 219 | 426 | 193 | 7.4 | C-746-Q | C-335 TM |
| 121077-06 | VENTILATION DUCT OIL AND WATER | 5/9/2017 | L | 436.05 | 198 | 198 | 90 | 7.0 | ARPK | C-335 TM |
| 121078-01 | VENT DUCT SOLIDS | 4/25/2017 | S | 114 | 52 | 58 | 26 | 7.4 | C-752-A | C-337 TM |
| 121078-02 | PCB SPILL CLEANUP DEBRIS | 10/9/2017 | S | 90 | 41 | 34 | 15 | 7.4 | C-752-A | C-337 TM |
| 121078-03 | SPILL CLEANUP DEBRIS | 10/12/2017 | S | 92 | 42 | 36 | 16 | 7.4 | C-752-A | C-337 TM |
| 121078-04 | SPILL CLEANUP DEBRIS | 11/29/2017 | S | 52 | 24 | 24 | 11 | 3.7 | C-752-A | C-337 TM |
| 121079-01 | PCB VENTILATION DUCT OIL AND WATER | 4/25/2017 | L | 466 | 211 | 410 | 186 | 7.4 | C-746-Q | C-337 TM |
| 121079-02 | PCB VENTILATION DUCT OIL AND WATER | 4/27/2017 | L | 480 | 218 | 424 | 192 | 7.4 | C-746-Q | C-337 TM |
| 121079-03 | PCB VENTILATION DUCT OIL AND WATER | 7/12/2017 | L | 372 | 169 | 316 | 143 | 7.4 | C-752-A | C-337 TM |
| 121079-04 | PCB VENTILATION DUCT OIL AND WATER | 5/9/2017 | L | 71.4 | 32 | 63 | 29 | 1.1 | C-752-A | C-337 TM |
| 121084-01 | PCB | | | | | | | | | |
| 121084-01 | BALLASTS/TRANSFORMERS/CAPACITORS | 4/25/2017 | S | 522 | 237 | 466 | 211 | 7.4 | C-752-A | Various TM |
| 121161-01 | VENT DUCT SOLIDS | 3/11/2016 | S | 106 | 48 | 50 | 23 | 7.4 | C-752-A | Proc Bldgs TM |
| 121208-01 | PCB LIGHT | | | | | | | | | |
| 121208-01 | BALLASTS/TRANSFORMERS/CAPACITORS | 7/10/2017 | S | 362 | 164 | 306 | 139 | 7.4 | C-752-A | C-757 TM |
| 121255-01 | Lube Oil/PCB Rinseate collected in Sight Glasses from Transformer Draining, Post-TSCA Rinse. | 8/23/2017 | L | 493 | 224 | 437 | 198 | 7.4 | C-746-Q | C-337 TM |
| 121272-01 | Pothead and PLC Cable | 9/12/2017 | S | 1804 | 818 | 1,008 | 457 | 93.0 | C-752-A | RCRA Mixed (RTM) |
| 121272-01 | PCB LIGHT | | | | | | | | | |
| 121272-01 | BALLASTS/TRANSFORMERS/CAPACITORS | 10/4/2017 | S | 201.5 | 91 | 174 | 79 | 3.7 | C-752-A | Various TM |

Table 3. PCB Waste Inventory as of December 31, 2017 (Continued)

| Waste ID | Description | Earliest Date Removed from Service | Gross Wt (lb) | Gross Wt (kg) | Net Wt (lb) | Net Wt (kg) | Gross Vol (ft ³) | Current Facility | Source | Waste Cat |
|-----------|--------------------------------------------------------------|------------------------------------|---------------|---------------|-------------|-------------|------------------------------|------------------|---------|-----------|
| 125104-01 | Light ballasts | 5/1/2017 | S | 3802 | 1,725 | 3,087 | 1,400 | 90.0 | C-752-A | C-400 TM |
| 125105-01 | PCB ballasts (leaking) | 5/3/2017 | S | 442 | 200 | 386 | 175 | 7.4 | C-752-A | C-400 TM |
| 125105-02 | PCB ballasts (leaking) | 5/3/2017 | S | 534 | 242 | 478 | 217 | 7.4 | C-752-A | C-400 TM |
| 125105-03 | PCB ballasts (leaking) | 5/15/2017 | S | 260 | 118 | 204 | 93 | 7.4 | C-752-A | C-400 TM |
| 125118-01 | Sample returns from C-400 | 6/6/2017 | S | 15 | 7 | 6 | 3 | 0.7 | C-752-A | C-400 RTM |
| 125127-01 | Capacitors/ballasts | 6/26/2017 | S | 262 | 119 | 206 | 93 | 7.4 | C-752-A | C-400 TM |
| 125150-01 | PCB OIL FROM C-400 ZONE, 16 J-BOX | 9/19/2017 | L | 318 | 144 | 262 | 119 | 7.4 | C-752-A | C-400 TM |
| 125150-02 | PCB OIL FROM C-400 ZONE 16, J-BOX | 9/20/2017 | L | 314 | 142 | 258 | 117 | 7.4 | C-752-A | C-400 TM |
| 125151-01 | PCB CONTAMINATED PPE, ETC C-400, ZONE 16, J-BOX OIL DRAINING | 9/20/2017 | S | 64 | 29 | 8 | 4 | 7.4 | C-752-A | C-400 TM |
| 51 | Total Containers | | Totals | 89,606 | 40,645 | 85,458 | 38,763 | 3,271.3 | | |

Radioactively contaminated PCBs and PCB items are shipped for disposal to DOE-owned facilities, Nuclear Regulatory Commission-licensed facilities, or facilities that have received authorized limits approval from DOE and the facility's host state. During CY 2017, 134 co-contaminated, radioactive PCBs or PCB items with a net weight of approximately 40,984 kg were shipped off-site for disposal on 12 hazardous waste manifests.

As discussed in the Executive Summary, 4 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-TSCA regulated using historical data, process knowledge, and some confirmatory sampling/analysis.

Upon initial composite testing by the TSDF, the presence of PCBs was 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 Universal Hazardous Waste Manifests 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 this shipment.

Also during CY 2017, 9 Certificates of Disposal were received for PCB/radioactive wastes that had been disposed of, representing a total net weight of 24,421 kg of radiologically contaminated PCBs and PCB items. The PCB waste off-site shipping and disposal information for this reporting period is shown in Table 4. Waste generated as a result of site cleanup and operations is included in this report, including Comprehensive, Environmental Response, Compensation, and Liability Act waste, which is provided for information only and is intended to show progress toward removal of PCBs at Paducah.

Table 4. PCB Waste Disposal Activities for CY 2017

| Waste ID | Description | Gross Weight (lbs) | Net Weight (lbs) | Net Weight (kg) | Earliest Date Removed from Service | Date Shipped | Manifest No. | Shipment No. | Disposal Location | Disposal Method | Disposal Date | CoD Rec'd |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|-----------------|------------------------------------|--------------|--------------|--------------|----------------------------|---------------------|---------------|-----------|
| 120614-01 | PCB Articles, Wood Pumps, Drum Vacs | 11,440 | 5,189 | 1,787 | 3/27/2015 | 5/18/2017 | 0068418670JK | 9701-26-0001 | EnergySolutions, Clive, UT | M&EC, Oak Ridge, TN | | |
| 120624-01 | Holding residue, and from labeled storage equipment unit THIS WASTE CONSISTS OF RECYCLED OIL FROM THE TSCA TRANSFORMER OIL DRAINED FROM THE 3PH3 AUXILIARY TRANSFORMER AT C-653 PUMP HOUSE, ACCORDING TO THE TSCA ANNUAL REPORT, THE PCB CONCENTRATIONS IN THE VARIOUS COMPARTMENTS OF THIS TRANSFORMER VARY BETWEEN 8.1 AND 34 | 30 | 14 | 0.1 | 5/6/2017 | 7/1/2017 | 0068418930JK | ETTP-17-103 | M&EC, Oak Ridge, TN | | | |
| 120538-03 | THIS WASTE CONSISTS OF RECYCLED OIL FROM THE TSCA TRANSFORMER OIL DRAINED FROM THE 3PH3 AUXILIARY TRANSFORMER AT C-653 PUMP HOUSE, ACCORDING TO THE TSCA ANNUAL REPORT, THE PCB CONCENTRATIONS IN THE VARIOUS COMPARTMENTS OF THIS TRANSFORMER VARY BETWEEN 8.1 AND 34 | 2,596 | 1,178 | 2,130 | 966 | 11/22/2017' | 10/12/2017 | 0068430020JK | ETTP-17-168 | M&EC, Oak Ridge, TN | | |
| 120538-04 | COMPARTMENTS OF THIS TRANSFORMER VARY BETWEEN 8.1 AND 34 DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,544 | 1,199 | 2,189 | 993 | 11/22/2017' | 10/12/2017 | 0068430050JK | ETTP-17-169 | M&EC, Oak Ridge, TN | | |
| 120543-01 | OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,596 | 1,178 | 2,277 | 1,033 | 11/22/2017' | 10/12/2017 | 0068430020JK | ETTP-17-168 | M&EC, Oak Ridge, TN | | |
| 120543-03 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,626 | 1,191 | 2,161 | 980 | 11/22/2017' | 10/12/2017 | 0068430020JK | ETTP-17-168 | M&EC, Oak Ridge, TN | | |
| 120543-07 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,720 | 1,234 | 2,253 | 1,022 | 11/22/2017' | 10/12/2017 | 0068430050JK | ETTP-17-169 | M&EC, Oak Ridge, TN | | |
| 120543-08 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,750 | 1,247 | 2,284 | 1,036 | 11/22/2017' | 10/12/2017 | 0068430060JK | ETTP-17-170 | M&EC, Oak Ridge, TN | | |
| 120543-10 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,872 | 1,849 | 1,407 | 638 | 11/22/2017' | 10/12/2017 | 0068430060JK | ETTP-17-170 | M&EC, Oak Ridge, TN | | |
| 120543-15 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,856 | 1,196 | 2,169 | 984 | 11/22/2017' | 10/12/2017 | 0068430060JK | ETTP-17-170 | M&EC, Oak Ridge, TN | | |
| 120543-20 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,792 | 1,266 | 2,326 | 1,055 | 11/22/2017' | 10/12/2017 | 0068430070JK | ETTP-17-171 | M&EC, Oak Ridge, TN | | |
| 120543-26 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,794 | 1,267 | 2,327 | 1,060 | 11/22/2017' | 10/12/2017 | 0068430050JK | ETTP-17-169 | M&EC, Oak Ridge, TN | | |
| 120543-29 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,814 | 1,276 | 2,348 | 1,065 | 11/22/2017' | 10/12/2017 | 0068430020JK | ETTP-17-168 | M&EC, Oak Ridge, TN | | |
| 120543-30 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,794 | 1,267 | 2,327 | 1,060 | 11/22/2017' | 10/12/2017 | 0068430060JK | ETTP-17-168 | M&EC, Oak Ridge, TN | | |
| 120543-31 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,678 | 1,215 | 2,211 | 1,003 | 11/22/2017' | 10/12/2017 | 0068430020JK | ETTP-17-168 | M&EC, Oak Ridge, TN | | |
| 120543-33 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,796 | 1,268 | 2,320 | 1,057 | 11/22/2017' | 10/12/2017 | 0068430020JK | ETTP-17-168 | M&EC, Oak Ridge, TN | | |
| 120543-34 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,742 | 1,244 | 2,275 | 1,032 | 11/22/2017' | 10/12/2017 | 0068430020JK | ETTP-17-168 | M&EC, Oak Ridge, TN | | |
| 120543-35 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND DIELECTRIC FLUID FROM THE AUXILIARY TRANSFORMERS AT THE C-653, C-655, AND C-657 PUMPHOUSES. THE FLUID WILL BE DRAINED AND BULKED INTO CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE | 2,806 | 1,273 | 2,339 | 1,061 | 11/22/2017' | 10/12/2017 | 0068430020JK | ETTP-17-168 | M&EC, Oak Ridge, TN | | |
| 120543-36 | CONTAINER OR DIRECTLY INTO TANKERS AS PART OF THE DEACTIVATION SCOPE OF WORK IN THE PUMPHOUSES, THE SOURCE LOCATION AND | 2,798 | 1,269 | 2,344 | 1,063 | 11/22/2017' | 10/12/2017 | 0068430070JK | ETTP-17-171 | M&EC, Oak Ridge, TN | | |

Table 4. PCB Waste Disposal Activities for CY 2017 (Continued)

| Waste ID | Description | Gross Weight (lbs) | Net Weight (kg) | Net Weight (lbs) | Earliest Date Service | Date Shipped | Manifest | Shipment No. | Disposal Location | Disposal Method | Disposal Date | CoD Rec'd |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|------------------|-----------------------|--------------|-------------|--------------|-----------------------------|----------------------------|-------------------|-------------------|
| I20356-02 | AQUEOUS PRIMARY AND SECONDARY WASTE, AQUEOUS WASTE HAVING SOLID PARTICULATES EMANATING FROM THE SLUDGE THAT CANNOT BE FILTERED FROM ENTERING THE WASTE CONTAINER IS TO PACKAGED AND TREATED WITH THE SLUDGE/SLURRY (IE, #6120357). | 2,828 | 1,253 | 2,690 | 9/14/2016 | 10/28/2016 | 06841826JJK | 9701-24-0003 | EnergySolutions - Clive, UT | Landfill | 3/30/2017 | 4/3/2017 |
| I20356-03 | AQUEOUS PRIMARY AND SECONDARY WASTE, AQUEOUS WASTE HAVING SOLID PARTICULATES EMANATING FROM THE SLUDGE THAT CANNOT BE FILTERED FROM ENTERING THE WASTE CONTAINER IS TO PACKAGED AND TREATED WITH THE SLUDGE/SLURRY (IE, #6120357). | 594 | 269 | 456 | 9/14/2016 | 10/28/2016 | 06841826JJK | 9701-24-0003 | EnergySolutions - Clive, UT | Landfill | 3/30/2017 | 4/3/2017 |
| I15919-04 | VENTILATION DUCT OIL AND WATER | 392 | 233 | 136 | 1/9/2017 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I15919-05 | VENTILATION DUCT OIL AND WATER | 368 | 212 | 412 | 1/9/2017 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I15919-06 | VENTILATION DUCT OIL AND WATER | 473 | 215 | 417 | 1/9/2017 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I15919-07 | VENTILATION DUCT OIL AND WATER | 473 | 215 | 402 | 1/13/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-05 | VENTILATION DUCT OIL AND WATER | 384 | 220 | 428 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-06 | VENTILATION DUCT OIL AND WATER | 184 | 121 | 166 | 1/21/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-07 | VENTILATION DUCT OIL AND WATER | 372 | 214 | 406 | 1/27/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-08 | VENTILATION DUCT OIL AND WATER | 472 | 214 | 406 | 1/27/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-09 | VENTILATION DUCT OIL AND WATER | 394 | 234 | 438 | 1/27/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-10 | VENTILATION DUCT OIL AND WATER | 490 | 222 | 434 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-11 | VENTILATION DUCT OIL AND WATER | 478 | 217 | 422 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-12 | VENTILATION DUCT OIL AND WATER | 384 | 220 | 428 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-13 | VENTILATION DUCT OIL AND WATER | 497 | 235 | 427 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-14 | VENTILATION DUCT OIL AND WATER | 474 | 215 | 418 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-15 | VENTILATION DUCT OIL AND WATER | 382 | 219 | 426 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-16 | VENTILATION DUCT OIL AND WATER | 209 | 104 | 317 | 1/17/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-17 | VENTILATION DUCT OIL AND WATER | 458 | 208 | 402 | 1/8/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-18 | VENTILATION DUCT OIL AND WATER | 478 | 217 | 422 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-19 | VENTILATION DUCT OIL AND WATER | 384 | 220 | 428 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-20 | VENTILATION DUCT OIL AND WATER | 497 | 235 | 427 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-21 | VENTILATION DUCT OIL AND WATER | 474 | 215 | 418 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-22 | VENTILATION DUCT OIL AND WATER | 369 | 190 | 315 | 1/30/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-23 | VENTILATION DUCT OIL AND WATER | 499 | 233 | 431 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-24 | VENTILATION DUCT OIL AND WATER | 527 | 238 | 468 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-009 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-25 | VENTILATION DUCT OIL AND WATER | 484 | 230 | 428 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-26 | VENTILATION DUCT OIL AND WATER | 369 | 228 | 416 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-27 | VENTILATION DUCT OIL AND WATER | 469 | 213 | 413 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-28 | VENTILATION DUCT OIL AND WATER | 450 | 209 | 404 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-29 | VENTILATION DUCT OIL AND WATER | 458 | 218 | 426 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-30 | VENTILATION DUCT OIL AND WATER | 469 | 217 | 426 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-31 | VENTILATION DUCT OIL AND WATER | 490 | 234 | 429 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-32 | VENTILATION DUCT OIL AND WATER | 469 | 219 | 426 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-33 | VENTILATION DUCT OIL AND WATER | 482 | 219 | 426 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-34 | VENTILATION DUCT OIL AND WATER | 563 | 238 | 447 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-35 | VENTILATION DUCT OIL AND WATER | 385 | 230 | 429 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-36 | VENTILATION DUCT OIL AND WATER | 470 | 210 | 418 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-37 | VENTILATION DUCT OIL AND WATER | 369 | 217 | 416 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-38 | VENTILATION DUCT OIL AND WATER | 450 | 204 | 394 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-39 | VENTILATION DUCT OIL AND WATER | 492 | 233 | 436 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-40 | VENTILATION DUCT OIL AND WATER | 303 | 138 | 249 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-41 | VENTILATION DUCT OIL AND WATER | 454 | 216 | 398 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-42 | VENTILATION DUCT OIL AND WATER | 483 | 219 | 427 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-43 | VENTILATION DUCT OIL AND WATER | 356 | 207 | 400 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-44 | VENTILATION DUCT OIL AND WATER | 448 | 203 | 392 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| I20306-45 | VENTILATION DUCT OIL AND WATER | 442 | 200 | 386 | 1/9/2016 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 3/27/2017 | 4/13/2017 |
| OILS AND LIQUIDS DRAINED FROM OBSOLETE AND NON-FUNCTIONAL EQUIPMENT | | 46 | 21 | 29 | 13 | 3/23/2016 | 6/29/2016 | 06841840JK | NUC-258-OH | Perma-Fix, Gainesville, FL | Alternate | |
| I20085-02 | PREVIOUSLY STORED IN THE C-727 FACILITY | | | | | | | | | | | Thermal Treatment |
| I20194-01 | RCRA/SCALL LABPACKED SAMPLE RESIDUALS/EXTRACTS FROM C-710 LAB | 22 | 10 | 11 | 5 | 8/5/2015 | 6/29/2016 | 06841840JK | NUC-258-OH | Perma-Fix, Gainesville, FL | Thermal Treatment | 8/26/2016 |
| I15019-03 | VENTILATION DUCT OIL AND WATER | 383 | 219 | 427 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-04 | VENTILATION DUCT OIL AND WATER | 389 | 222 | 433 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-05 | VENTILATION DUCT OIL AND WATER | 461 | 200 | 385 | 1/7/18/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-06 | VENTILATION DUCT OIL AND WATER | 383 | 210 | 407 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-07 | VENTILATION DUCT OIL AND WATER | 499 | 226 | 443 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-08 | VENTILATION DUCT OIL AND WATER | 482 | 219 | 426 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-09 | VENTILATION DUCT OIL AND WATER | 506 | 230 | 450 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-10 | VENTILATION DUCT OIL AND WATER | 472 | 214 | 445 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-11 | VENTILATION DUCT OIL AND WATER | 468 | 212 | 405 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-12 | VENTILATION DUCT OIL AND WATER | 483 | 219 | 427 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-13 | VENTILATION DUCT OIL AND WATER | 473 | 215 | 417 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-14 | VENTILATION DUCT OIL AND WATER | 499 | 226 | 443 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-15 | VENTILATION DUCT OIL AND WATER | 518 | 235 | 462 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-16 | VENTILATION DUCT OIL AND WATER | 501 | 227 | 445 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-17 | VENTILATION DUCT OIL AND WATER | 515 | 234 | 459 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-18 | VENTILATION DUCT OIL AND WATER | 497 | 225 | 441 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-19 | VENTILATION DUCT OIL AND WATER | 497 | 225 | 441 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-20 | VENTILATION DUCT OIL AND WATER | 467 | 212 | 411 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |
| I15019-21 | VENTILATION DUCT OIL AND WATER | 388 | 221 | 422 | 1/9/2015 | 1/23/2017 | 06841845JJK | DSU17-008 | DSU Inc, Kingston, TN | Treatment | 5/18/2017 | 7/19/2017 |

Table 4. PCB Waste Disposal Activities for CY 2017 (Continued)

| Waste ID | Description | Gross Weight (lbs) | Net Weight (lbs) | Net Weight (kg) | Earliest Date Removed from Service | Date Shipped | Manifest No. | Disposal Location | Disposal Method | Date Col Rec'd | |
|-----------|-------------------------------------------|--------------------|------------------|-----------------|------------------------------------|--------------|--------------|------------------------|------------------------|---------------------|---------------------|
| 115019-22 | VENTILATION DUCT OIL AND WATER | 370 | 213 | 41.4 | 1/26/2015 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 | |
| 115019-23 | VENTILATION DUCT OIL AND WATER | 306 | 230 | 45.0 | 204 | 1/26/2015 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-24 | VENTILATION DUCT OIL AND WATER | 473 | 215 | 41.7 | 199 | 1/26/2015 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-28 | VENTILATION DUCT OIL AND WATER | 380 | 218 | 42.4 | 192 | 1/26/2015 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-29 | VENTILATION DUCT OIL AND WATER | 380 | 210 | 40.6 | 184 | 1/26/2015 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-30 | VENTILATION DUCT OIL AND WATER | 382 | 219 | 42.6 | 193 | 9/10/2015 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-31 | VENTILATION DUCT OIL AND WATER | 387 | 221 | 43.1 | 195 | 10/29/2015 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-32 | VENTILATION DUCT OIL AND WATER | 363 | 210 | 40.7 | 185 | 1/26/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-33 | VENTILATION DUCT OIL AND WATER | 383 | 219 | 42.7 | 194 | 1/26/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-34 | VENTILATION DUCT OIL AND WATER | 381 | 201 | 44.5 | 202 | 1/12/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-43 | VENTILATION DUCT OIL AND WATER | 380 | 218 | 42.4 | 192 | 1/12/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-44 | VENTILATION DUCT OIL AND WATER | 366 | 191 | 33.1 | 166 | 5/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 115019-45 | VENTILATION DUCT OIL AND WATER | 472 | 214 | 41.3 | 187 | 4/13/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-20 | VENTILATION DUCT OIL AND WATER | 361 | 209 | 40.3 | 183 | 5/20/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-21 | VENTILATION DUCT OIL AND WATER | 376 | 216 | 42.0 | 191 | 5/20/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-22 | VENTILATION DUCT OIL AND WATER | 457 | 207 | 40.1 | 182 | 5/11/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-23 | VENTILATION DUCT OIL AND WATER | 397 | 219 | 42.7 | 193 | 5/12/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-24 | VENTILATION DUCT OIL AND WATER | 360 | 209 | 40.4 | 183 | 5/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-25 | VENTILATION DUCT OIL AND WATER | 508 | 230 | 45.2 | 205 | 5/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-26 | VENTILATION DUCT OIL AND WATER | 501 | 227 | 44.5 | 202 | 7/1/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-27 | VENTILATION DUCT OIL AND WATER | 361 | 239 | 44.8 | 203 | 7/13/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-28 | VENTILATION DUCT OIL AND WATER | 303 | 238 | 44.7 | 203 | 7/28/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-29 | VENTILATION DUCT OIL AND WATER | 499 | 231 | 45.4 | 204 | 8/27/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-30 | VENTILATION DUCT OIL AND WATER | 473 | 215 | 41.7 | 189 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-31 | VENTILATION DUCT OIL AND WATER | 492 | 233 | 43.6 | 198 | 8/20/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-32 | VENTILATION DUCT OIL AND WATER | 470 | 233 | 41.1 | 188 | 8/20/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-33 | VENTILATION DUCT OIL AND WATER | 471 | 214 | 41.5 | 188 | 8/20/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-34 | VENTILATION DUCT OIL AND WATER | 517 | 235 | 46.1 | 209 | 8/16/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-35 | VENTILATION DUCT OIL AND WATER | 504 | 229 | 44.8 | 203 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-36 | VENTILATION DUCT OIL AND WATER | 505 | 229 | 44.9 | 204 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-37 | VENTILATION DUCT OIL AND WATER | 492 | 223 | 43.6 | 198 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-38 | VENTILATION DUCT OIL AND WATER | 496 | 235 | 44.0 | 200 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-39 | VENTILATION DUCT OIL AND WATER | 476 | 234 | 46.9 | 209 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-40 | VENTILATION DUCT OIL AND WATER | 471 | 214 | 41.5 | 188 | 8/20/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-41 | VENTILATION DUCT OIL AND WATER | 504 | 229 | 44.8 | 203 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-42 | VENTILATION DUCT OIL AND WATER | 492 | 223 | 43.6 | 198 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-43 | VENTILATION DUCT OIL AND WATER | 496 | 235 | 44.0 | 200 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-44 | VENTILATION DUCT OIL AND WATER | 476 | 234 | 46.9 | 209 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-45 | VENTILATION DUCT OIL AND WATER | 483 | 219 | 42.7 | 194 | 8/17/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-46 | VENTILATION DUCT OIL AND WATER | 482 | 216 | 42.6 | 193 | 8/24/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-47 | VENTILATION DUCT OIL AND WATER | 338 | 199 | 38.2 | 173 | 12/19/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-48 | VENTILATION DUCT OIL AND WATER | 436 | 198 | 38.0 | 172 | 12/19/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-49 | VENTILATION DUCT OIL AND WATER | 386 | 230 | 43.0 | 195 | 12/19/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-50 | VENTILATION DUCT OIL AND WATER | 386 | 230 | 43.0 | 196 | 12/28/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-51 | VENTILATION DUCT OIL AND WATER | 474 | 215 | 41.8 | 190 | 1/1/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-52 | VENTILATION DUCT OIL AND WATER | 322 | 146 | 26.6 | 121 | 1/2/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-53 | VENTILATION DUCT OIL AND WATER FROM C-337 | 286 | 130 | 40.4 | 104 | 1/13/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-54 | VENTILATION DUCT OIL AND WATER FROM C-337 | 280 | 121 | 37.1 | 94 | 1/2/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-55 | VENTILATION DUCT OIL AND WATER FROM C-337 | 354 | 161 | 29.3 | 135 | 1/18/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-56 | VENTILATION DUCT OIL AND WATER FROM C-337 | 344 | 156 | 28.8 | 131 | 1/18/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-57 | VENTILATION DUCT OIL AND WATER FROM C-337 | 260 | 118 | 20.4 | 93 | 1/18/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-58 | VENTILATION DUCT OIL AND WATER FROM C-337 | 12 | 5 | 2 | 1 | 2/16/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/17/2017 7/19/2017 |
| 120306-59 | VENTILATION DUCT OIL AND WATER FROM C-337 | 34 | 15 | 22 | 10 | 1/27/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/17/2017 7/19/2017 |
| 120306-60 | VENTILATION DUCT OIL AND WATER FROM C-337 | 358 | 208 | 40.2 | 182 | 1/24/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-61 | VENTILATION DUCT OIL AND WATER FROM C-337 | 329 | 216 | 42.0 | 191 | 1/25/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-62 | VENTILATION DUCT OIL AND WATER FROM C-337 | 373 | 195 | 37.3 | 169 | 3/26/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-63 | VENTILATION DUCT OIL AND WATER FROM C-337 | 354 | 161 | 29.8 | 135 | 4/1/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-64 | VENTILATION DUCT OIL AND WATER FROM C-335 | 344 | 156 | 28.8 | 131 | 1/18/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-65 | VENTILATION DUCT OIL AND WATER FROM C-335 | 260 | 118 | 20.4 | 93 | 1/18/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-66 | VENTILATION DUCT OIL AND WATER FROM C-335 | 16 | 7 | 2 | 1 | 1/16/2016 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/17/2017 7/19/2017 |
| 120306-67 | VENTILATION DUCT OIL AND WATER FROM C-331 | 164 | 209 | 51.7 | 19 | 1/17/2017 | 1/25/2017 | 0068418450JK | DSSU Inc. Kingston, TN | Treatment | 5/18/2017 7/19/2017 |
| 120306-68 | VENTILATION DUCT OIL AND WATER FROM C-331 | 62,534 | 38,365 | 53,840 | 24,21 | 114,020 | 51.7 | 19 | 90,353 | 40,984 | |
| 134 | Total Shipped | | | | | 114,020 | 51.7 | 19 | 90,353 | 40,984 | |
| 119 | Total Disposed | | | | | 62,534 | 38,365 | 53,840 | 24,21 | 119 | |

* Earliest Date Removed from service denotes the date the TSDF notified project of confirmed PCB results

Total CDs Received 9

Total No. of Items Disposed 119

APPENDIX

**WRITTEN RECORD DEMONSTRATING COMPLIANCE
WITH 40 CFR § 761.65 (a)(1) REGARDING PCB-MIXED WASTE
CONTAINERS STORED IN EXCESS OF ONE YEAR PRIOR TO
SHIPPING DURING FIRST QUARTER 2018**

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**Written Record Demonstrating Compliance with 40 CFR § 761.65 (a)(1)
Regarding PCB-Mixed Waste Containers Stored in Excess of One Year
Prior to Shipping during First Quarter 2018**

The following radioactively contaminated waste items remain in storage past one year: 119845-59, 119845-60, 119863-01, 119874-05, 119874-06, 119874-07, 119874-08, 119874-09, 119874-10, 119874-11, 119874-12, and 119881-01.

- The characterization of these containers was completed on July 18, 2017, by a Fluor Federal Services, Inc., Paducah Deactivation Project (FPDP) waste engineer with a peer review performed. As a result of this review, the *EnergySolutions* profile 9701-17, PCB Non-Aqueous Liquid Waste Treatment, was selected. The shipment information for these containers was uploaded to *EnergySolutions*' Customer Portal on September 12, 2017, and assigned the shipment number 9701-17-0002. Approval to ship was received on September 12, 2017, at 4:55 p.m.
- A technical representative from *EnergySolutions* contacted FPDP Waste Management (WM) on September 13, 2017, stating that the profile for shipment 9701-17-0002 was in question. FPDP WM stated the profile had been chosen to be conservative because there had been discussion about the possibility of material being squeezed out of the absorbents and becoming free liquids. They informed WM that profile 9701-17 was for vacuum thermal desorption only and did not allow for free liquid verification upon receipt. The representative then said that 9701-21, Wet PCB Remediation Debris, would be a better fit because this material was absorbents and other material from spill cleanup. Reviewing 9701-21 along with the technical representative, WM determined it is written for aqueous-based liquids. *EnergySolutions* personnel then said FPDP would need to revise it, adding that because the revision would involve going from water-based liquid only to including an oil-based liquid the state of Utah would have to review the revision and it would not be a speedy process. He then informed FPDP that the permission to ship these containers was rescinded, and they needed to be removed from the shipment planned for the next day. This occurred just before 4 o'clock.
- The containers were removed from the truck on the morning of September 14, 2017.
- The FPDP Transportation Specialist then revised the shipment information in the Customer Portal to remove these 12 drums.
- Since September 2017, *EnergySolutions* has worked with FPDP and now Four Rivers Nuclear Partnership, LLC, (FRNP) to review and revise numerous profiles.

Additionally two more containers of radioactively contaminated PCB material, 120906-01 and 121161-01, have exceeded one year storage.

- The characterization for these two containers was completed on September 21, 2017, by FPDP WM.
- *EnergySolutions* initiated profile revision on November 22, 2017.
- Profile approved January 2, 2018.
- Containers shipped February 20, 2018.

Eleven of these 14 containers have PCB date to storage dates that would have exceeded 1 year in storage at the time of the signing of the latest modification to the UE TSCA CA on May 30, 2017.

Two radioactively contaminated PCB transformers have been in storage for more than one year, as well. DOE is evaluating whether it is possible to remove these transformers from the process building without significant modification to move them from their current location. The transformers have been declared waste with waste IDs as 106744-01 and 107839-01.

Backup documentation is kept on file in Waste Materials and Environmental Services Project Document Control Center.