

761 Veterans Avenue Kevil, KY 42053

February 3, 2015

Deliverable No: 170

PAD-SO-15-4508

Ms. Jennifer Woodard, Contracting Officer Representative Portsmouth/Paducah Project Office U.S. Department of Energy 5501 Hobbs Road Kevil, Kentucky 42053

Dear Ms. Woodard:

DE-AC30-10CC40020: Deliverable No. 170–Uranium Enrichment Toxic Substances Control Act Compliance Agreement Quarterly Progress Report for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, October 1 through December 31, 2014, PAD-SO-0055/V4

Enclosed is the Uranium Enrichment Toxic Substances Control Act Compliance Agreement Quarterly Progress Report for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, October 1 through December 31, 2014, PAD-SO-0055/V4 (UE TSCA CA). This final report incorporates U.S. Department of Energy comments provided on January 29, 2015.

The UE TSCA CA Quarterly Progress Report is a shelf document that is required to be available for U.S. Environmental Protection Agency inspection. The information within this report will be included in the 2014 UE TSCA CA Annual Compliance Report.

If you have any questions, please contact Ed King at (270) 441-5152.

Sincerely,

LATA Environmental Services of Kentucky, LLC

Mark J. Duff Paducah Project Manager

FEB 3 3:45PM

Enclosure

cc: DMC, Kevil

e-copy: daniel.lillard@lex.doe.gov david.senderling@lex.doe.gov jennifer.woodard@lex.doe.gov kim.knerr@lex.doe.gov reinhard.knerr@lex.doe.gov Uranium Enrichment Toxic Substances Control Act Compliance Agreement Quarterly Progress Report for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky October 1 through December 31, 2014



This document is approved for public release per review by:

LATA Kentucky Classification Support

Date

PAD-SO-0055/V4

Uranium Enrichment Toxic Substances Control Act Compliance Agreement Quarterly Progress Report for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky October 1 through December 31, 2014

Date Issued—February 2015

Prepared for the U.S. DEPARTMENT OF ENERGY Office of Environmental Management

LATA ENVIRONMENTAL SERVICES OF KENTUCKY, LLC managing the Environmental Remediation Activities at the Paducah Gaseous Diffusion Plant under contract DE-AC30-10CC40020

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FIGURE

1. (Quarterly Summary of PCB	Gasket Spills4	•
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ACRONYMS

BEJ	best engineering judgment
CA	Compliance Agreement
CFR	Code of Federal Regulations
CY	calendar year
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
NESHAP	National Emission Standard for Hazardous Air Pollutants
PGDP	Paducah Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act
TSCA	Toxic Substances Control Act
UE	uranium enrichment

1. INTRODUCTION

The Uranium Enrichment (UE) Toxic Substances Control Act (TSCA) Compliance Agreement (CA) signed by the U.S. Department of Energy (DOE) and the U.S. Environmental Protection Agency (EPA) on February 20, 1992, and modified in 1997, requires quarterly reports that summarize progress toward completing polychlorinated biphenyl (PCB)-related compliance measures. These measures include troughing, air sampling, process lubrication oil removal, spill cleanup, and disposal. As of March 30, 1994, the troughing interim measure was completed. Ongoing inspections of ventilation duct and troughing systems are performed to identify leaks or spills requiring additional troughing or trough maintenance. The quarterly reports will be maintained at the DOE Site Office and available to EPA, upon request, 45 days following the end of the quarter. The quarterly reports are required to be included in DOE's Annual Compliance Agreement Report. The following summaries satisfy the UE TSCA CA quarterly reporting requirements for October 1 through December 31, 2014.

2. INTERIM MEASURES

2.1 AIR SAMPLING

2.1.1 Requirements

Attachment I, Section 1 (D), of the UE TSCA CA states the following:

Air Sampling – Consistent with DOE's monitoring at the facilities, PCB air sampling will be continued in process buildings with motor exhaust systems. At least 5 samples will be taken per process building per year. For each of these buildings, samples will be taken quarterly every calendar year, at least 30 days apart, with an additional set of samples taken sometime during the year. For each periodic (annual) air monitoring activity in a building, there are two kinds of sampling sites: best engineering judgment (BEJ) selected sites and randomly selected sites. The same BEJ sites may be selected for more than one monitoring period. The randomly selected sites shall be different from the BEJ sites and shall be newly selected for each periodic monitoring activity according to the attached guidance provided in the appended "Selection of Random Sampling Sites." It would be a rare coincidence for the same randomly selected location in the same building to be sampled in more than one periodic monitoring activity. DOE shall report quarterly to the EPA any PCB concentrations greater than 0.5 micrograms per cubic meter measured from any air-monitoring sampler at any location. Upon receipt of any such measurement data, EPA will contact DOE to address further monitoring requirements and any other required actions. Should EPA conclude that air sampling results produced pursuant to this Agreement so warrant, EPA and DOE shall meet and shall agree upon additional protective measures to be taken by DOE.

2.1.2 Work Completion Date

Work must be complete one year after facility shutdown, and notification will be provided to EPA upon work completion.

2.1.3 Activity for this Quarter

The UE TSCA CA requires that PCB air sampling 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. At least five samples are required to be taken per building per year; at least one of the five samples will be taken at a BEJ selected site, with the remainder of the sites to be selected randomly. For each of the buildings, the samples must be taken quarterly every calendar year (CY), at least 30 days apart. DOE is required to report quarterly to EPA any PCB concentrations greater than $0.5 \mu g/m^3$ measured from any air-monitoring sampler at any location.

Air samples for the fourth quarter were collected October 29, 2014. The results of all the samples collected for the fourth quarter of CY 2014 are shown in Table 1. The quarterly sample sets were obtained more than 30 days apart, as required. 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. All samples met the required detection limit and sample results did not exceed the UE TSCA CA reporting level of $0.5 \,\mu\text{g/m}^3$.

							Pump Flow Rate	Air Volume
Sample Numbers	Sample Date	Building	Floor	Sample Coordinates	Method of Selection	Results* (µg/m ³)	(liters/ minute)	Sampled (liters)
						PCBs not		
						detected above		
						laboratory		
						reporting		
PCB15-AIR-01-01	10/29/2014	C-331	Cell	S of T-22	Random	limits	1.03	549
						PCBs not		
						detected		
						above		
						laboratory reporting		
PCB15-AIR-01-02	10/29/2014	C-333	Ground	S of Mb-47	Random	limits	1.02	518
						PCBs not		
						detected		
						above		
						laboratory		
DCD15 AID 01 02	10/20/2014	G 225		E (C 10		reporting	1.01	516
PCB15-AIR-01-03	10/29/2014	C-335	Ground	E of C-18	Random	limits PCBs not	1.01	516
						detected		
						above		
						laboratory		
						reporting	1.02	521
PCB15-AIR-01-04	10/29/2014	C-337	Cell	SE of Ua-43	Random	limits	1.02	521
						PCBs not		
						detected		
						above laboratory		
						reporting		
PCB15-AIR-01-05	10/29/2014	C-337	Ground	At J-34	BEJ	limits	1.01	513

Table 1. Fourth Quarter CY 2014 TSCA CA Air Sampling Results

*Limit of detection 0.01 µg/m3

3. COMPLIANCE MEASURES

3.1 PROCESS LUBRICATION OIL REMOVAL

Section 3.1 does not apply to Paducah Gaseous Diffusion Plant (PGDP). There are no PCB process lubrication oil systems at PGDP.

3.2 SPILL CLEANUP

3.2.1 Requirements

Attachment I, Section 2 (C), of the UE TSCA CA states the following:

Spill Cleanup – PCBs and PCB contaminated oil that may leak onto building floors shall be cleaned up in accordance with the EPA Spill Cleanup Policy. For spills > 500 parts per million (ppm) PCBs, this shall consist of cleanup to 10 µg PCB/100 cm² with 95% confidence, based on the statistical sampling approach set forth in Attachment III, which shall be used within the spill area to verify cleanup to appropriate levels or, alternatively, to 100 μ g PCB/100 cm² with 95% confidence, based on the statistical sampling approach set forth in Attachment III, which shall be used within the spill area to verify cleanup to appropriate levels followed by application of an appropriate sealant, such as a 2-layered epoxy type paint. All spill cleanups will be initiated within 24 hours of discovery, excluding historic spills which are defined as PCB stains resulting from spills which have occurred prior to the effective date of this Agreement. Historic spills may be left in place until demolition of the facility, provided public access to the facility is restricted to prevent unauthorized entry. In the event that a new spill should occur on a historic spill site, and the appropriate standard specified above cannot be met after best efforts to meet the standard are made, DOE may request that EPA consider the efforts DOE has made and classify the spill area as a historic spill for purposes of the cleanup under this Agreement.

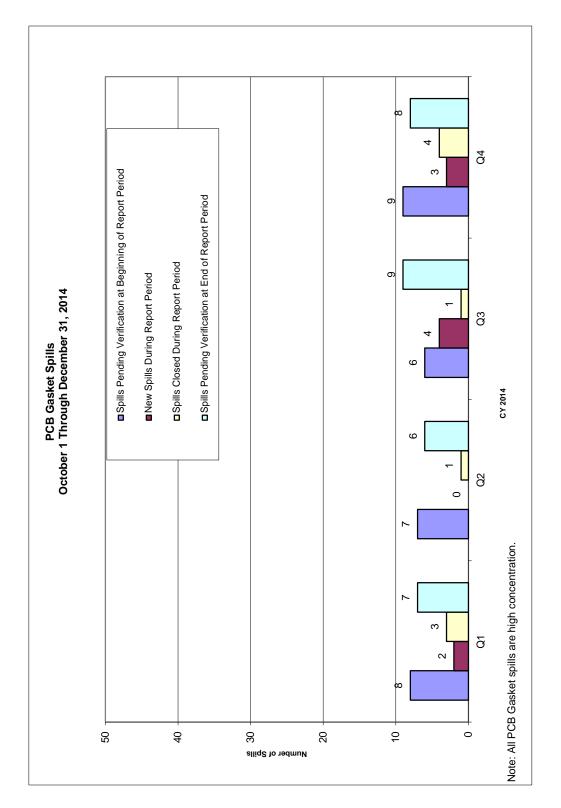
3.2.2 Work Completion Date

None listed.

3.2.3 Activity for this Quarter

Nine gasket spill sites were pending post-cleanup verification at the beginning of this reporting period. Three new gasket spills to the building floor were identified during the reporting period. Four gasket spill sites were closed during the reporting period by verifying sampling data. Eight gasket spill sites were pending post-cleanup verification at the end of this reporting period. PCB spill cleanup progress for CY 2014 is illustrated in Figure 1.

All PCB 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 UE 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 DOE remediation contractor maintains the cleanup documentation, and the records are available for inspection.





3.3 ELECTRICAL CABLES AND ASSOCIATED EQUIPMENT

3.3.1 Requirements

Attachment I, Section 2 (F), of the UE TSCA CA states the following:

Electrical Cables and Associated Equipment – PCB contaminated electrical cables and associated equipment shall be removed from the facilities upon decommissioning, unless they require maintenance, servicing or replacement during plant operations, or gasket removal. If maintained or serviced, the cables, cable trays, and associated equipment shall be removed or cleaned up to 10 μ g PCB/100 cm² or 100 μ g PCB/100 cm² with 95% confidence followed by application of appropriate sealant.

3.3.2 Work Completion Date

Work must be complete upon demolition.

3.3.3 Activity for this Quarter

No Request for Disposal forms for cables, cable trays, and associated equipment were received, and no maintenance activities were performed during the fourth quarter of CY 2014.

3.4 DISPOSAL

3.4.1 Requirements

Attachment I, Section 2 (G) of the UE TSCA CA states the following:

Disposal – All waste PCBs, PCB Items and ventilation ducts (and associated flanges), electrical cables and associated equipment contaminated with PCBs which were not decontaminated pursuant to Sections 2(C), 2(E), and 2(F) of this Attachment, shall be disposed of in accordance with 40 *CFR* § 761.60. All waste PCBs and PCB Items contaminated with hazardous waste and/or asbestos shall be disposed of in accordance with TSCA, NESHAP [National Emission Standard for Hazardous Air Pollutants] and RCRA [Resource Conservation and Recovery Act] requirements, and/or alternate disposal methods approved by EPA.

3.4.2 Work Completion Date

- Nonradioactive PCBs and PCB Items—within one year after the date the materials were placed into storage for disposal in accordance with Section 2(D) of the attachment of the UE TSCA CA.
- Co-contaminated, radioactive PCBs, and PCB items stored for disposal—within 10 years of work initiation date for materials already in storage; 2016, or within 10 years of storage, whichever date is earlier, for materials placed into storage after the effective date of the UE TSCA CA.
- Ventilation gaskets, ductwork and flanges, electrical cable, associated equipment, and historic spill material—2016 or within 10 years of work initiation date, whichever date is earlier.

3.4.3 Activity for this Quarter

During the fourth quarter CY 2014, 41,902 kg of PCB waste was shipped for disposal. Seven Certificates of Disposal were received. The PCB waste disposal summary for this reporting period is shown in Table 2. 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 2. PCB Waste Shipped Off-Site Disposal Activities: Waste Shipped Off-Site and Certificates of Disposal Received October 1 through December 31, 2014

Description Weight (sg) Date from Service Date Date Date bervice Date Disposal Manifest Manifest Manifest Disposal Disposal <thdisposal< th=""></thdisposal<>				Earliest							CD Rec'd
24 10/12/2005 10/10/2013 006841664JJK* ETTP-13-241 M&EC, Alternate 4.476 3/16/2012 6/24/2014 006841674JJK*** DSSI-14-071 DSSI-PermaFix, Alternate with 39 9/19/2013 8/15/2014 006841674JJK*** DSSI-14-071 DSSI-PermaFix, Alternate with 39 9/19/2013 8/15/2014 00684167JJK** DSSI-14-071 DSSI-14-071 DSSI-14-071 Treatment with 39 9/19/2013 8/15/2014 00684167JJK* DSSI-14-070 EnergySolutions, Landfill 16.211 6/18/2014 9/16/2014 00684167JJK* 9501-21-0004 EnergySolutions, Landfill 18,606 6/18/2014 9/16/2014 00684167JJK* 9501-21-0004 EnergySolutions, Landfill 17,681 6/18/2014 9/16/2014 00684167JJK* 9501-21-0004 EnergySolutions, Landfill 17,681 6/18/2014 9/16/2014 00684167JJK* 9501-21-0004 EnergySolutions, Landfill 17,	Desc	ription	Weight (kg)	Date Removed from Service	Date Shipped	Manifest	Shipment No.	Disposal Location	Disposal Method	Disposal Date	No. of Items Disposed
4,476 316/2012 6/24/2014 006841674JJK**** DSS1-14071 DSS1-PermaFix, Themate with 39 9/19/2013 8/15/2014 006728133FLE* CH668752 Clean Harbors, Incineration 16,211 6/18/2014 9/16/2014 00684167JJK* 9501-21-0004 EnergySolutions, Landfill 16,211 6/18/2014 9/16/2014 00684167JJK* 9501-21-0005 EnergySolutions, Landfill 18,606 6/18/2014 9/16/2014 00684167JJK* 9501-21-0005 EnergySolutions, Landfill 16,148 6/18/2014 9/16/2014 00684167JJK* 9501-21-0005 EnergySolutions, Landfill 17,681 6/18/2014 9/26/2014 00684167JJK* 9501-21-0005 EnergySolutions, Landfill 79 11/2/2008 10/6/2014 00684167JJK 9501-21-0005 EnergySolutions, Landfill 79 11/2/2008 10/6/2014 00684168JJK 9501-21-0005 EnergySolutions, Landfill 79 11/2/2008 10/6/2014 00684168JJK 9501-21-0005 EnergySolutions, Landfill 79 11/2	Drums of RCRA/TS0	CA/LW	24	10/12/2005	10/10/2013	006841664JJK*	ETTP-13-241	M&EC, Oak Ridge, TN	Alternate Thermal Treatment	4/17/2014 5/15/2014	12/15/2014 3
with 39 9/19/2013 8/15/2014 007728133FLE* CH668752 Ctean Harbors, Incineration 16.211 6/18/2014 9/16/2014 00684167JJJK* 9501-21-0004 EnergySolutions, Landfill 16.211 6/18/2014 9/16/2014 00684167JJJK* 9501-21-0005 EnergySolutions, Landfill 18.606 6/18/2014 9/16/2014 00684167JJJK* 9501-21-0005 EnergySolutions, Landfill 16.148 6/18/2014 9/26/2014 00684167JJJK* 9501-21-0005 EnergySolutions, Landfill 17.681 6/18/2014 9/26/2014 00684167JJJK* 9501-21-0005 EnergySolutions, Landfill 79 11/2/2008 10/06/2014 00684167JJJK 9501-17-0003 EnergySolutions, Landfill 79 11/2/2008 10/06/2014 00684168JJJK 9501-17-0003 EnergySolutions, Landfill 822 6/18/2014 10/6/2014 00684168JJK 9501-21-0003 EnergySolutions, Landfill 14.805 6/18/2014 10/6/2014 00684168JJK 9501-21-0003 EnergySolutions, Landfill 14.805	Drums of Waste	RCRA/PCB	4,476	3/16/2012	6/24/2014	006841674JJK***	DSSI-14-071	DSSI-PermaFix, Kingston, TN	Alternate Thermal Treatment	10/1/2014	11/4/2014 26
16,211 6/18/2014 9/16/2014 006841676JJK* 5501-21-0004 EnergySolutions, Clive, UT Landfill 18,606 6/18/2014 9/16/2014 00684167JJK* 5501-21-0005 EnergySolutions, Landfill Landfill 16,148 6/18/2014 9/26/2014 00684167JJK* 5501-21-0006 EnergySolutions, Landfill Landfill 17,681 6/18/2014 9/26/2014 00684167JJK* 5501-21-0007 EnergySolutions, Landfill 79 17,681 6/18/2014 006841680JJK 5501-21-0007 EnergySolutions, Landfill 79 11/2/2008 10/06/2014 006841680JJK 5501-21-0003 EnergySolutions, Landfill 79 11/2/2008 10/06/2014 00684168JJK 5501-15-0003 EnergySolutions, Landfill 79 11/2/2008 10/6/2014 00684168JJK 5501-15-0003 EnergySolutions, Landfill 822 6/2/2011 10/6/2014 00684168JJK 5501-21-0003 EnergySolutions, LT 14,805 6/18/2014 10/6/2014 00684168JJK 5501-21-0003 EnergySolutions, LT	Drum of PCB	Liquid Waste with	39	9/19/2013	8/15/2014	007728133FLE*	CH668752	Clean Harbors, LaPorte Texas	Incineration	9/11/2014	10/9/2014 1
18,606 $6/18/2014$ $9/16/2014$ $006841671JIK*$ $9501-21-0005$ EnergySolutions, EnergySolutions, Clive, UT Landfill $16,148$ $6/18/2014$ $9/26/2014$ $006841678JIK*$ $9501-21-0006$ EnergySolutions, Landfill Landfill $17,681$ $6/18/2014$ $9/26/2014$ $006841679JIK*$ $9501-21-0007$ EnergySolutions, Landfill Landfill 79 $11/2/2008$ $10/06/2014$ $006841680JIK$ $9501-17-0003$ EnergySolutions, Landfill Landfill 79 $11/2/2008$ $10/06/2014$ $00684168JIK$ $9501-17-0003$ EnergySolutions, Landfill Landfill $3,695$ $5/7/204$ $10/6/2014$ $00684168JIK$ $9501-17-0003$ EnergySolutions, Landfill $3,695$ $5/7/204$ $10/6/2014$ $00684168JIK$ $9501-21-0003$ EnergySolutions, Landfill 822 $6/22011$ $10/6/2014$ $00684168JIK$ $9501-21-0003$ EnergySolutions, Landfill $14,805$ $6/18/2014$ $10/6/2014$ $00684168JIK$ $9501-21-0003$ EnergySolutions, Landfill 16	Tanker o Contami	of PCB inated Water	16,211	6/18/2014	9/16/2014	006841676JJK*	9501-21-0004	EnergySolutions, Clive, UT	Landfill	11/14/2014	12/22/2014 1
16,148 6/18/2014 9/26/2014 006841678JJK* 9501-21-0006 EnergySolutions, Landfill 17,681 6/18/2014 9/26/2014 006841679JJK* 9501-21-0007 EnergySolutions, Landfill 79 11/2/2008 10/06/2014 006841680JJK 9501-17-0003 EnergySolutions, Landfill 79 11/2/2008 10/06/2014 006841680JJK 9501-17-0003 EnergySolutions, Landfill 825 5/7/204 10/6/2014 00684168JJK 9501-17-0003 EnergySolutions, Landfill 822 6/2/2011 10/6/2014 00684168JJK 9501-21-0003 EnergySolutions, Landfill 14,805 6/18/2014 10/6/2014 00684168JJK 9501-21-0003 EnergySolutions, Landfill 16,556 6/18/2014 10/6/2014 00684168JJK 9501-21-0003 EnergySolutions, Landfill 16,556 6/18/2014 10/6/2014 00684168JJK 9501-21-0003 EnergySolutions, Landfill 93 4/25/2013 11/7/2014 00684168JJK 9501-21-0009 EnergySolutions, Landfill 93 4/25/2013 <td< td=""><td>Tanker Contam</td><td>of PCB inated Water</td><td>18,606</td><td>6/18/2014</td><td>9/16/2014</td><td>006841677JJJK*</td><td>9501-21-0005</td><td>EnergySolutions, Clive, UT</td><td>Landfill</td><td>11/14/2014</td><td>12/22/2014 1</td></td<>	Tanker Contam	of PCB inated Water	18,606	6/18/2014	9/16/2014	006841677JJJK*	9501-21-0005	EnergySolutions, Clive, UT	Landfill	11/14/2014	12/22/2014 1
17,681 6/18/2014 9/26/2014 006841679JJK* 9501-21-0007 EnergySolutions, Clive, UT Landfill 79 11/2/2008 10/06/2014 006841680JJK 9501-17-0003 EnergySolutions, Clive, UT EnergySolutions, Clive, UT 3,695 5/7/204 10/6/2014 006841681JJK 6501-15-0006 EnergySolutions, Clive, UT EnergySolutions, Clive, UT 822 6/2/2011 10/6/2014 006841681JJK 9501-21-0003 EnergySolutions, Clive, UT EnergySolutions, Clive, UT 14,805 6/18/2014 10/6/2014 006841685JJK 9501-21-0003 EnergySolutions, Clive, UT Landfill 16,556 6/18/2014 10/6/2014 006841685JJK 9501-21-0003 EnergySolutions, Clive, UT Landfill 93 4/25/2013 11/17/2014 006841688JJK 9501-21-0010 EnergySolutions, Clive, UT Landfill 93 4/25/2013 11/17/2014 006841688JJK 9501-21-0010 EnergySolutions, Clive, UT Landfill	Tanker Contan	of PCB iinated Water	16,148	6/18/2014	9/26/2014	006841678JJK*	9501-21-0006	EnergySolutions, Clive, UT	Landfill	11/20/2014	12/22/2014 1
79 11/2/2008 10/06/2014 006841680JJK 9501-17-0003 EnergySolutions, Clive, UT 3,695 5/7/204 10/6/2014 006841681JJK 6501-15-0006 EnergySolutions, Clive, UT 822 6/2/2011 10/6/2014 006841684JJK 9501-21-0003 EnergySolutions, Clive, UT 14,805 6/18/2014 10/6/2014 006841685JJK 9501-21-0003 EnergySolutions, Clive, UT 16,556 6/18/2014 10/6/2014 006841685JJK 9501-21-0008 EnergySolutions, Clive, UT 93 4/25/2013 11/17/2014 006841688JJK 9501-21-0009 EnergySolutions, Clive, UT 93 4/25/2013 11/17/2014 006841688JJK 9501-21-0009 EnergySolutions, Clive, UT	Tanker Contan	of PCB ninated Water	17,681	6/18/2014	9/26/2014	006841679JJJK*	9501-21-0007	EnergySolutions, Clive, UT	Landfill	11/14/2014	12/22/2014 1
3,695 5/7/204 10/6/2014 006841681JJK 6501-15-0006 EnergySolutions, Clive, UT 822 6/2/2011 10/6/2014 006841684JJK 9501-21-0003 EnergySolutions, Clive, UT 14,805 6/18/2014 10/6/2014 006841685JJK 9501-21-0003 EnergySolutions, Clive, UT 16,556 6/18/2014 10/6/2014 006841685JJK 9501-21-0008 EnergySolutions, Clive, UT 93 4/25/2013 11/17/2014 006841683JJK 9501-21-0009 EnergySolutions, Clive, UT 93 4/25/2013 11/17/2014 006841683JJK 9501-21-0010 EnergySolutions, Clive, UT	Drum of RCRA/T	of TSCA/LLW	62	11/2/2008	10/06/2014	006841680JJK	9501-17-0003	EnergySolutions, Clive, UT			
822 6/2/2011 10/6/2014 006841684JJK 9501-21-0003 EnergySolutions, Clive, UT 14,805 6/18/2014 10/6/2014 006841685JJK 9501-21-0008 EnergySolutions, Clive, UT Landfill 16,556 6/18/2014 10/6/2014 006841685JJK 9501-21-0008 EnergySolutions, Clive, UT Landfill 93 4/25/2013 11/17/2014 006841688JJK 9501-21-0010 EnergySolutions, Clive, UT Landfill	Drums of RCRA/TS	of /TSCA/LLW	3,695	5/7/204	10/6/2014	006841681JJK	6501-15-0006	EnergySolutions, Clive, UT			
14,805 6/18/2014 10/6/2014 006841685JJK 9501-21-0008 EnergySolutions, Clive, UT Landfill 16,556 6/18/2014 10/6/2014 006841686JJK 9501-21-0009 EnergySolutions, Clive, UT Landfill 93 4/25/2013 11/17/2014 006841688JJK 9501-21-0010 EnergySolutions, Clive, UT Landfill	Drums	of TSCA/LLW	822	6/2/2011	10/6/2014	006841684JJK	9501-21-0003	EnergySolutions, Clive, UT			
16,556 6/18/2014 10/6/2014 006841686JJK 9501-21-0009 EnergySolutions, Landfill 93 4/25/2013 11/17/2014 006841688JJK 9501-21-0010 EnergySolutions, Clive, UT	Tanker Contan	of PCB iinated Water	14,805	6/18/2014	10/6/2014	006841685JJK	9501-21-0008	EnergySolutions, Clive, UT	Landfill	11/20/2014	12/22/2014
93 4/25/2013 11/17/2014 006841688JJK 9501-21-0010	Tanker Contarr	of PCB iinated Water	16,556	6/18/2014	10/6/2014	006841686JJK	9501-21-0009	EnergySolutions, Clive, UT	Landfill	11/7/2014	12/22/2014 1
	Drums	of TSCA/LLW	93	4/25/2013	11/17/2014	006841688JJK	9501-21-0010	EnergySolutions, Clive, UT			

Waste Shipped Off-Site and Certificates of Disposal Received Table 2. PCB Waste Shipped Off-Site Disposal Activities: October 1 through December 31, 2014 (Continued)

CD Rec'd	No. of Items Disposed				7	36
-	Disposal Date				seived	ems
-	Disposal Method				Total CDs Received	Total No. of Items Disposed
-	Disposal Location	EnergySolutions, Clive, UT	EnergySolutions, Clive, UT	EnergySolutions, Clive, UT		
5	Shipment No.	9501-02-0012	9501-07-0010	9501-21-0011	_	
	Manifest	006841689JJK	006841690JJK	006841691JJK		
ĥ	Date Shipped	11/27/2014	11/17/2014	11/17/2014		
Earliest Date	Removed from Service	11/02/2008	8/14/2014	4/11/2011		
	Weight (kg)	1	6	5,842	41,902	104,546
	Description	Drum of PCB Light Bulbs	Drum of RCRA/TSCA/LLW	1/2-high Cargo Container of TSCA/LLW	Total Shipped	Total Disposed
	PCB Item Count	1	1	1	61	36

CD = Certificate of Disposal LLW = low-level waste

PCB = polychlorinated biphenyl

All PCB waste listed is PCB/radioactive waste. Weights and volumes are taken from the Uniform Hazardous Waste Manifests.

*The Uniform Hazardous Waste Manifests (UHWMs) listed below were captured in previous quarterly reports as shipped. This report captures the disposal of the waste. 006841664JJK, 006841674JJK, 007728133FLE, 006841676JJK, 006841677JJK, 006841679JJK **UHWM 006841674JJK was previously captured as being received but without management codes due to additional sampling analysis. On December 2, 2014 the signed manifest was received with management codes.