



Department of Energy

Portsmouth/Paducah Project Office
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513
(859) 219-4000

MAY 17 2019

RECEIVED
By Carolee.Thompson at 9:27 am, May 20, 2019

Mr. Norm Sandlin, Prime Contract Manager
Four Rivers Nuclear Partnership, LLC
5511 Hobbs Road
Kevil, Kentucky 42053

PPPO-02-5581774-19

Dear Mr. Sandlin:

**CONTRACT NO. DE-EM0004895: APPROVAL OF DELIVERABLE NO. 11,
URANIUM ENRICHMENT TOXIC SUBSTANCES CONTROL ACT QUARTERLY
REPORT, JANUARY 1 THROUGH MARCH 2019**

Reference: Letter from J. Bradford to M. Fultz, "Four Rivers Nuclear Partnership, LLC, Deliverable No. 11—*Uranium Enrichment Toxic Substances Control Act Quarterly Report for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, January 1 through March 31, 2019*, FRNP-RPT-0090," (FRNP-19-2477), dated May 15, 2019

The U.S. Department of Energy reviewed and approves the Four Rivers Nuclear Partnership, LLC Deliverable No. 11, *Uranium Enrichment Toxic Substances Control Act Quarterly Report for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, January 1 through March 31, 2019*, FRNP-RPT-0090, as submitted.

If you have any questions or require additional information, please contact Tracey Duncan at (270) 441-6862.

Sincerely,

Daniel M. Lillard
Contracting Officer
Portsmouth/Paducah Project Office

e-copy:

april.ladd@pppo.gov, PPPO
brandy.mitchell@pad.pppo.gov, FRNP
daniel.lillard@pppo.gov, PPPO
frnpcorrespondence@pad.pppo.gov, FRNP
james.miller@pad.pppo.gov, FRNP
jeff.bradford@pad.pppo.gov, FRNP
jennifer.woodard@pppo.gov, PPPO
joel.bradburne@pppo.gov, PPPO
karen.testerman@pppo.gov, SMSI

kim.knerr@pppo.gov, PPPO
larry.glover@pad.pppo.gov, FRNP
marcia.fultz@pppo.gov, PPPO
myrna.redfield@pad.pppo.gov, FRNP
norm.sandlin@pad.pppo.gov, FRNP
pad.rmc@pad.pppo.gov, SSI
robert.edwards@pppo.gov, PPPO
tracey.duncan@pppo.gov, PPPO

**Uranium Enrichment Toxic Substances Control Act
Quarterly Report for the
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky,
January 1 through March 31, 2019**



This document is approved for public release per review by:


FRNP Classification Support

5-14-19
Date

**Uranium Enrichment Toxic Substances Control Act
Quarterly Report for the
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky,
January 1 through March 31, 2019**

Date Issued—May 2019

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 DE-EM0004895

CONTENTS

TABLES	iii
ACRONYMS	iv
1. INTRODUCTION.....	1
2. COMPLIANCE MEASURES.....	1
2.1 SPILL CLEANUP	1
2.1.1 Requirements	1
2.1.2 Work Completion Date.....	1
2.1.3 Activity for this Quarter	2

TABLES

1. Open Gasket Spill Report.....	3
2. Open Non-Gasket Spill Report.....	6

ACRONYMS

CA	Compliance Agreement
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
TSCA	Toxic Substances Control Act

1. INTRODUCTION

The Toxic Substances Control Act (TSCA) Compliance Agreement (CA) was signed by the U.S. Department of Energy (DOE) and the U.S. Environmental Protection Agency (EPA) on February 20, 1992, modified in 1997, and modified again on May 30, 2017. The original TSCA CA required quarterly reports summarizing progress toward completing polychlorinated biphenyl (PCB)-related compliance measures. These measures included 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. Subsequent to the May 30, 2017, modification, only PCB spill cleanup progress is required to be reported on a quarterly basis. 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 summary satisfies the modified TSCA CA quarterly reporting requirements for January 1, 2019, through March 31, 2019.

2. COMPLIANCE MEASURES

2.1 SPILL CLEANUP

2.1.1 Requirements

Attachment I, Section 2 (C), of the 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 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 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 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 historical spills which are defined as PCB stains resulting from spills which have occurred prior to the effective date of the February 20, 1992 Compliance Agreement. Historical 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 historical 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 historical spill for purposes of the cleanup under this Agreement.

2.1.2 Work Completion Date

None listed.

2.1.3 Activity for this Quarter

2.1.3.1 Gasket spills

Gasket spill sites 1941, 1952, 1953, and 1974 were pending post-cleanup verification at the beginning of this reporting period. Three new gasket spills 2018, 2019, and 2020 were identified on the building floor during the reporting period. Gasket spill site 1974 was closed during the reporting period as a historical spill this quarter and added to the list of historical spill sites. This site had been sampled a minimum of three times with the last sampling results being in excess of 10µg PCB/100 cm². The spill site was then encapsulated with two coats of white epoxy paint followed by two coats of gray epoxy paint. A PCB M_L marking and a stencil of the spill site number along with the date of encapsulation were affixed to the gray paint and covered with a single layer of clear coat. Six gasket spill sites—1941, 1952, 1953, 2018, 2019, and 2020—were pending post-cleanup verification at the end of this reporting period. A detailed description of all open gasket spills is provided in Table 1.

All PCB 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 original 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.

Table 1. Open Gasket Spill Report

OPEN GASKET SPILL REPORT

REPORT	DATE	TIME	BUILDING	COLUMN	DAYS OPEN	COMMENTS	STATUS
1941	5/10/2011	1230	C-337	GB-6	2925	11/7/2018 Update: Spill site was discussed with EPA at Annual TSCA CA meeting. Requesting allowance to close as historic due to inaccessible areas in accordance with 40 CFR 761.30(p)(1)(iii)(A)(2). 9/20/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 5/16/11 Column Gb-6. Per phone conversation USEC initiated cleanup within 24 hours; further sampling is needed and cleanup will continue. Issued as 1939, USEC to get PSS to correct to 1941. Spill is caused by a hydraulic leak into the instrument duct; instrumentation within the U1C5 heated cubicle is coated, there is no pool [of oil]. Spill site has been flagged and posted. The door and access panel is ready for cleanup per USEC.	Incomplete
1952	1/13/2012	0900	C-337	Gb29	2677	3/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 2/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 11/7/2018 Update: Spill site was discussed with EPA at Annual TSCA CA meeting. Requesting allowance to close as historic due to inaccessible areas in accordance with 40 CFR 761.30(p)(1)(iii)(A)(2). 4/12/2018 Update: Installed Aluminum pan under existing pan and ductwork. 3/7/2018 Update: PR submitted for aluminum pans to place under active leak. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 1/13/12 Oil dripping from open ductwork onto energized transformer 7-2-6-A. Initial cleanup completed by USEC on 1/13/12 at 1300.	Incomplete

Table 1. Open Gasket Spill Report (Continued)

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>BUILDING</i>	<i>COLUMN</i>	<i>DAYS OPEN</i>	<i>COMMENTS</i>	<i>STATUS</i>	
1953	1/13/2012	0900	C-337	La-22	2677	11/7/2018 Update: Spill site was discussed with EPA at Annual TSCA CA meeting. Requesting allowance to close as historic due to inaccessible areas in accordance with 40 CFR 761.30(p)(1)(iii)(A)(2). 4/12/2018 Update: Installed Aluminum pan under existing pan and ductwork. 3/7/2018 Update: PR submitted for aluminum pans to place under active leak. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 1/13/12 Oil dripping from open ductwork onto energized transformer U2-1-A. Initial cleanup completed by USEC on 1/13/12 at 1400.	Incomplete	
2018	1/3/2019	0837	C-337	U-23	130	4/9/2019 Update: 1S,2S, and 3S samples taken. 3/19/2019 Update: 1S, 2S, and 3S samples requested for site. 1/16/2019 Update: Repairs made to connection. 1/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/3/2019 Update: PCB oil leaked from PVC connection on containment pan under ventilation duct trough. Oil dripped onto pad that was placed under area as a recautionary measure. Pad lifted up and oil had left some residue on floor near Substation 75P8A.	Incomplete	
4	2019	3/6/2019	1211	C-333	C-11	68	5/8/2019 Update: Mini-scrubbers received. 5/1/2019 Update: Due to size of spill site cleanup is ongoing. Mini-scrubbers ordered for spill cleanup. 4/2019 Update: Due to size of spill cleanup is ongoing. 3/6/2019 Sprinkler head in ventilation ductwork started spraying water into ductwork. Water spilled over onto filter wall, filter room, filter room basin, and onto floor. Absorbent pads laid around area to contain leak. Area taped to identify areas where water had leaked onto floor. Area posted with PCB spill signs, flagging, and PCB Caution signs. Cleanup initiated within 24 hours.	Incomplete
2020	3/6/2019	1211	C-333	C-12	68	5/2/2019 Update: Sampling request submitted. 3/7/2019 Update: Spill site cleaned. 3/6/2019 Sprinkler head in ventilation ductwork started spraying water into ductwork. Water spilled over onto filter wall, filter room, filter room basin, and onto floor. Absorbent pads laid around area to contain leak. Area taped to identify areas where water had leaked onto floor. Area posted with PCB spill signs, flagging, and PCB Caution signs. Cleanup initiated within 24 hours.	Incomplete	

Open Spills: 6

2.1.3.2 Non-gasket spills

Non-gasket spill sites 748, 774, 785, 789, 799, 835, 841, 847, 849, 850, 853, 855, 857, 858, 861, 863, 867, and 868 were pending post-cleanup verification at the beginning of this reporting period. No new non-gasket spills were identified during the reporting period. No non-gasket spill sites were closed during the reporting period. Eighteen non-gasket spill sites—748, 774, 785, 789, 799, 835, 841, 847, 849, 850, 853, 855, 857, 858, 861, 863, 867, and 868—were pending post-cleanup verification at the end of this reporting period. A detailed description of all open gasket spills is provided in Table 2.

All PCB 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 original 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.

Table 2. Open Non-Gasket Spill Report

OPEN NON-GASKET SPILL REPORT

REPORT	DATE	TIME	FACILITY	DAYS OPEN	DESCRIPTION	COORDINATOR	STATUS
748	6/27/2004	1555	C-337	5433	1/28/2019 Update: Approximately 1 quart of oil drained from sight glass. 11/7/2018 Update: Spill site was discussed with EPA at Annual TSCA CA meeting. Requesting allowance to close as historic in accordance with 40 CFR 761.30(p). 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 12/15/10 update: Floor has been encapsulated, other areas have not. Access is restricted. 4/14/08 updated: not active, recleaning and resampling ongoing to reduce area to encapsulate. 2/20/06 update: partially encapsulated last week (over cart path), transformer in place but not energized, when running can reclean and encapsulate per USEC; 4/5/05 update: to be recleaned and encapsulated once transformer is replaced. C-337 E-30, U/2 C/8 B-transformer RIJL101 sprayed approx 2 gallons from pressure relief device on transformer tank. Fluid is on transformer and inside and outside the diked area, ~60 ft radius.	Lonnie Bertram	Incomplete
774	7/20/2005	0805	C-337	5045	1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 12/15/10 update: No changes. 4/14/08 update: incomplete spill, on waste transformer, will close out with disposal. 2/20/06 update: lube oil leak over area, cannot distinguish between PCB spill and lube oil - once drained transformer is moved, it will be cleaned before being wrapped for shipping & contaminated hypalon will be disposed as PCB per USEC. 7/20/05: declared a PCB spill, out of Service PCB Transformer from U/2 C/8 [RFD 107839] had residual oil forced from insulating coils during the fault that caused the transformer to fail, area cleaned but continues to leak.	Lonnie Bertram	Incomplete

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
785	3/22/2006	1129	C-337	4800	1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. week of 12/3/10, Chem Ops will decon and area will be encapsulated. 7/30/09: TSCA Compliance audit, minor spigot leak with occasional drop of oil that does not reach the floor; drip is monitored. 4/14/08 update: incomplete, still active leak. U1 C-10 Transformer 71P10B GE B983187 east end on plug at top of transformer side, leak onto side and gauge.	Lonnie Bertram	Incomplete
789	4/5/2006	1245	C-337	4786	5/9/2019 Update: Sampling request submitted. 1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 8/23/2018 Update: Spill area double washed/rinsed. Sampling to be requested. 6/28/2018 Update: Eight months of inspections under FRNP have shown no signs of drips. Leak has stopped but will continue to be inspected since spill is still open. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 12/15/10 update: No changes. 4/14/08 update: incomplete spill, on waste transformer, close out with disposal. Continues to leak, pads changed daily; original spill was 6 oz on hypalon covered dike floor from PCB Transformer radiator fin plug.	Lonnie Bertram	Incomplete
799	6/29/2007	0700	C-337	4336	5/2/2019 Update: Walked down spill site in anticipation of encapsulation. 1/28/2019 Update: Approximately 4 gallons of oil drained from sight glass. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 12/15/10 update: Still dripping/active. 4/14/08 update: incomplete, still active leak. Posted, absorbent laid; 72P6A transformer RIA-0004 leaked inside dike area, 2 by 4 inches.	Lonnie Bertram	Incomplete

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
835	12/17/2009	1100	C-337	3434	5/2/2019 Update: Walked down spill site in anticipation of encapsulation. 1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 12/15/10 update: leaking at transformer U6C1 B-substation, few spots on floor; flagged off and posted, cleanup initiated.	Lonnie Bertram	Incomplete
841	6/24/2010	1054	C-337	3245	5/2/2019 Update: Walked down spill site in anticipation of encapsulation. 3/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 2/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 11/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 9/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 8/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 7/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 12/15/10 update: No longer active drip, to be cleaned and sampled/encapsulated. 6/24/10: Less than 1 pound, appx one half cup on floor at transformer 72P3A, GE B983125, from cooling fin.	Lonnie Bertram	Incomplete
847	3/22/2011	0845	C-337	2974	1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. 3/22/11: Spill site to be cleaned/sampled. Few drops on top sample valve of transformer Unit 6 Cell 1 A transformer.	Lonnie Bertram	Incomplete

8

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
849	9/27/2011	0820	C-337	2785	5/2/2019 Update: Walked down spill site in anticipation of encapsulation. 1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. C-337 U/1 C/4 B-Transformer. Columns J/Ja-14/13. Small puddle in pan ~1 tablespoon	Lonnie Bertram	Incomplete
850	12/21/2011	0830	C-337	2700	5/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 4/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 3/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 2/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/28/2019 Update: .5 gallon of oil drained from sight glass. 1/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 12/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 11/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 9/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 8/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. C-337 Unit 2 cell 1 tap sample valve on B transformer. A couple of drops.	Lonnie Bertram	Incomplete
853	3/21/2012	0853	C-337	2609	2/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 11/21/2014 management of open PCB spills transferred to DOE upon de-lease of operations at PGDP. DOE is responsible for the cleanup of all open PCB spills generated under the USEC lease period which ended in 2014. Transformer 1-2-A leaking top sample valve. Few drips on guage and floor.	Lonnie Bertram	Incomplete

6

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
855	6/25/2012	1230	C-337	2513	5/8/2019 Update: Spill on concrete cleaned and prepared for encapsulation. 1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 11/21/17 update: two new drips (half dollar size each) on top of dike and one area (~100 cm2) on floor inside transformer dike area. The oil was found to be coming through bolts on the cable housing that connects Transformer 72P8A and the Ground Resistor. Oil leaked down from bolts to the bottom of the housing and dripped onto the top of the dike. Some material from dike ran down inside of the dike to the floor. New area was double washed and rinsed within 24 hours. Plastic and absorbent pads were put in place. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP U/2 C/8 "A" transformer. Column Eb-29 on top of dike wall. Two spots approximately 1 1/2".	Lonnie Bertram	Incomplete

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
857	3/20/2015	2208	C-337	1515	5/2/2019 Update: Walked down spill site in anticipation of encapsulation. 4/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 3/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 2/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/28/2019 Update: Approximately 1 quart of oil drained from sight glass. 12/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 11/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 9/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 8/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 7/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 5/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 5/10/16 update: Work Request No. 16050091 submitted to encapsulate. 5/5/16 update: 4S spill sampling results exceeded the TSCA clean-up level of <10 ug/100 cm2. 3/24/16 update: 4S sampling completed. 2/26/16 update: 4S sampling requested. 2/17/16 update: 3S spill sampling results exceeded the TSCA clean-up level of <10 ug/100 cm2. 12/21/15 update: Sampling completed. 12/7/15 update: Sampling requested. 3/20/15: C-337 72P4A transformer. Diked area around transformer and approx 10' by 10' area east of dike. Area between col Jb-29 to Jb-31 and col K-29 to K-31. Oil sheen spots on water in diked area and spot where water leaked from dike.	Lonnie Bertram	Incomplete

11

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
858	5/27/2015	1745	C-337	1447	1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 8/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 7/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary . 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 3/25/16 update: Work Request No. 16031461 submitted to encapsulate. 3/3/16 update: 3S spill sampling results exceeded the TSCA clean-up level of <10 ug/100 cm2. 12/29/15 update: Sampling completed. 12/7/15 update: Sampling requested. 5/27/15: C-337 transformer 72P1B. West side of the transformer inside and outside the diked area at col. Lb-21. Spill is from leaking gaskets/grommets around the rod bushings through the duct.	Lonnie Bertram	Incomplete

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
861	10/5/2015	1045	C-337	1316	<p>5/2/2019 Update: Walked down spill site in anticipation of encapsulation. 5/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 4/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 3/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 2/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/28/2019 Update: 1 gallon of oil drained from sight glass. 1/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 12/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 11/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 9/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 8/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 7/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 3/25/16 update: Work Request No. 16031461 submitted to encapsulate. 3/16/16 update: 4S spill sampling results exceeded the TSCA clean-up level of <10 ug/100 cm2. 2/24/16 update: 4S sampling completed. 2/5/16 update: 4S sampling requested. 1/25/16 update: 3S spill sampling results exceeded the TSCA clean-up level of <10 ug/100 cm2. 12/16/15 update: Sampling completed. 11/30/15 update: Sampling requested. 10/5/15: Transformer at Unit 2 Cell 7 A sub. PCB rinseate oil dripping from bottom radiator gasket. Leaking 1 drop per second. Less than 3 gallons are on floor inside the dike. Setting up to pump the oil to a truck.</p>	Lonnie Bertram	Incomplete

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
863	11/5/2015	1245	C-337	1285	5/8/2019 Update: Spill site cleaned and readied for encapsulation. 5/2/2019 Update: Walked down spill site in anticipation of encapsulation. 1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 12/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 9/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 8/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 7/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 5/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 4/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/20/2017 FRNP becomes managing contractor for the Deactivation and Remediation Project at PGDP. 3/28/16 update: Work Request No. 16031482 submitted to encapsulate. 3/16/16 update: 4S spill sampling results exceeded the TSCA clean-up level of <10 ug/100 cm2. 2/24/16 update: 4S sampling completed. 2/5/16 update: 4S sampling requested. 1/25/16 update: 3S spill sampling results exceeded the TSCA clean-up level of <10 ug/100 cm2. 12/17/15 update: Sampling completed. 12/7/15 update: Sampling requested. 11/5/15: 37 U2/C10/A Trans. Sight glass valve. South side of diked area around A Trans. Failed to fully close valve. Closed valve. Called & Reported and covered oil asborant to soak up oil.	Lonnie Bertram	Incomplete

14

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
867	1/10/2018	0925	C-337	488	<p>5/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 4/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 3/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 2/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/28/2019 Update: Approximately 1 quart of oil drained from sight glass. 12/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 11/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 9/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 8/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 7/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 5/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 4/2018 Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. Changed 1/10/2018 Update: Residual PCB oil leaking from bolts on cable housing of Transformer 72P6B onto plastic on floor and supports. There are two oil drops about half dollar size, two oil drops about quarter size, and five drops about dime size on plastic. Stain observed under plastic. Unsure if stain is related to spill but will be included as part of cleanup. Per Deactivation Manager, oil suspected to be from bushings inside of housing. Double washed and double rinsed the areas using the solvent SoyGold 1000 followed by a rinse of cleaner Formula 409, as necessary to remove oily residue remaining on the cleaned surfaces.</p>	Lonnie Bertram	Incomplete

<i>REPORT</i>	<i>DATE</i>	<i>TIME</i>	<i>FACILITY</i>	<i>DAYS OPEN</i>	<i>DESCRIPTION</i>	<i>COORDINATOR</i>	<i>STATUS</i>
868	7/11/2018	0858	C-337	306	5/8/2019 Update: Spill site cleaned and readied for encapsulation. 5/2/2019 Update: Walked down spill site in anticipation of encapsulation. 3/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 2/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/2019 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 1/28/2019 Update: Walkdown spill site. Verified no residual oils to be drained. 12/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 11/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 10/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 9/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 8/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 7/2018 Update: Material observed on absorbent pads. Absorbent pads cleaned up and replaced as necessary. 7/11/2018 Update: PCB oil leaking from drain port on sight glass of transformer 72P8A. Absorbent pad (approximately 12" x 12") saturated with oil. Oil also outside of pad. The area outside of pad was >1500 cm2 in size. Total small area size was taped and measured 26" x 40". PSS, FLM, Facility Manager, Environmental, and PCB Coordinator notified. Area double washed and double rinsed per CP3-WM-0034 using the solvent Soy Gold 1000 followed by a rinse of Formula 409. Area is flagged off and access has been restricted.	Lonnie Bertram	Incomplete

16

Open Spills 18